Solicitation Audit Checklist

| Proposal: | RFP 24.5 - Lighting Audit Services & LED Solutions | | | | | |
|------------------------------------------------------------------|----------------------------------------------------|--|--|--|--|--|
| Awarded Vendor(s): Premier Lighting, Inc; The Retrofit Companies | | | | | | |
| Award Date | : Contract Number:24.5 | | | | | |
| | 1 Legal Affidavit(s) | | | | | |
| | 2 Release of Solicitation | | | | | |
| | 3 Copy of Solicitation Documents | | | | | |
| | 4 Copy of Questions & Answers | | | | | |
| 8- | -5 Copy of Addenda | | | | | |
| | 6 Closed Notification | | | | | |
| | 7 Notification Report | | | | | |
| | 8 Access Report | | | | | |
| | 9 Opening Record | | | | | |
| | 10 Copy of Qualified Vendor Responses | | | | | |
| | 11 Evaluation Summary & Recommendation | | | | | |
| | 12 Copy of Rejection Letter | | | | | |
| | 13 Copy of Award Letter(s) | | | | | |
| | 14 Copy of Signed Contract(s) | | | | | |



P.O. Box 677349, Dallas, TX 75267-7349

Account No.: SFA-0000000483 Ad No.: 0005793673 PO #: Lines: 28 Ad Total: \$22.99

This is not an invoice

of Affidavits1

LAKES COUNTRY SERVICE COOPERAT **1001 E MOUNT FAITH AVE** FERGUS FALLS, MN 56537

Account No.: SFA-0000000483 Ad No.: 0005793673

Argus Leader AFFIDAVIT OF PUBLICATION

State of Wisconsin County of Brown

I being duly sworn, says: That The Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper published at Sioux Falls, Minnehaha County, South Dakota; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts sdated:tated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper issue(s) :

Monday, August 14, 2023 Monday, August 21, 2023

Sworn to and subscribed before me this 21 day of August, 2023.

Legal Clerk

icols

Notary Public, State of Wisconsin, County/of Brown

My Commission expires

NICOLE JACOBS Notary-Public State of Wisconsin Sealed proposals will be re-ceived by the Cooperative Purchasing Connection (CPC) on behalf of its cur-rent and potential member agencies in Minnesota, North Dakota, and South Dakota for RFP #24.5 -Lighting Audit Services & LED Solutions.

Specifications and forms may be obtained by regis-tering for free with CPC on Public Purchase (www.publ icpurchase.com)

Proposals must be uploaded to Public Purchase before 10 a.m. CT on Thursday, September 7, 2023. Late proposals will not be consid-ered. Published Aug 14, 21 2023, at the total approximate cost of \$22.99 and may be viewed free of charge at www.sdpublicnotices.com

-

_ ---

-

*** Proof of Publication ***

State of Indiana) SS: County of Lake) ON MAM Ι, being duly sworn says that I am the Legal Clerk of Bismarck Tribune Co., a division of Lee Publications, Inc. A newspaper published in the County of Burleigh and State of North Dakota. Who declares that the attached Notice was published in said newspaper on the following dates:

LAKES COUNTRY SERVICE COOP Lori Mittelstadt 1001 E MOUNT FAITH

FERGUS FALLS MN 56537

ORDER NUMBER

61974

SIGNATURE

Sworn and subscribed to before me this 21 day of

20

Notary Public in and for the State of Indiana



Section: Legals Category: 5380 Public Notices PUBLISHED ON: 08/14/2023, 08/21/2023

| TOTAL AD COST: | 61.00 |
|----------------|-----------|
| FILED ON: | 8/21/2023 |

Sealed proposals will be received by the Cooperative Purchasing Connection (CPC) on behalf of its current and potential member agencies in Minnesota, North Dakota, and South Dakota for RFP #24.5 - Lighting Audit Services & LED Solutions

Solutions. Specifications and forms may be obtained by registering for free with CPC on Public by registering to free win CPC on Public Purchase (www.publicpurchase.com). Proposals must be uploaded to Public Purchase before 10 a.m. CT on Thursday, September 7, 2023. Late proposals will not be considered. 8/14 & 21 - 61974 ND Affidavit No. 249555

AFFIDAVIT OF PUBLICATION

STATE OF NORTH DAKOTA ss. COUNTY OF CASS

Taylor Herhold, The Forum of Fargo-Moorhead, being duly sworn, states as follows:

1. I am the designated agent of The Forum of Fargo-Moorhead, under the provisions and for the purposes of, Section 31-04-06, NDCC, for the newspaper listed on the attached exhibit.

2. The newspaper listed on the exhibit published the advertisement of: *Legal Notice*; (2) time: Wednesday, August 16, 2023, Wednesday, August 23, 2023, as required by law or ordinance.

3. All of the listed newspapers are legal newspapers in the State of North Dakota and, under the provisions of Section 46-05-01, NDCC, are qualified to publish any public notice or any matter required by law or ordinance to be printed or published in a newspaper in North Dakota.

Dated this 23rd day of August, 2023 Notary Public



Sealed proposals will be received by the Cooperative Purchasing Connection (CPC) on behalf of its current and potential member agencies in Minnesota, North Dakota, and South Dakota for RFP #24.5 - Lighting Audit Services & LED Solutions. Specifications and forms may be obtained by registering for free with CPC on Public Purchase (www.publicpurchase.com). Proposals must be uploaded to Public Purchase before 10 a.m. CT on Thursday, September 7, 2023. Late proposals will not be considered. (Aug. 16 & 23, 2023) 249555 AFFIDAVIT OF PUBLICATION

STATE OF MINNESOTA) COUNTY OF HENNEPIN)



650 3rd Ave. S, Suite 1300 | Mineapolis, MN | 55488

Terri Swanson, being first duly sworn, on oath states as follows:

1. (S)He is and during all times herein stated has been an employee of the Star Tribune Media Company LLC, a Delaware limited liability company with offices at 650 Third Ave. S., Suite 1300, Minneapolis, Minnesota 55488, or the publisher's designated agent. I have personal knowledge of the facts stated in this Affidavit, which is made pursuant to Minnesota Statutes §331A.07.

2. The newspaper has complied with all of the requirements to constitute a qualified newspaper under Minnesota law, including those requirements found in Minnesota Statutes §331A.02.

3. The dates of the month and the year and day of the week upon which the public notice attached/copied below was published in the newspaper are as follows:

| Dates of Public | ation | <u>Advertiser</u> | Account # | <u>Order #</u> |
|-----------------|------------|-----------------------------------|------------|----------------|
| StarTribune | 08/14/2023 | COOPERATIVE PURCHASING CONNECTION | 1000337556 | 465436 |
| StarTribune | 08/21/2023 | COOPERATIVE PURCHASING CONNECTION | 1000337556 | 465436 |

4. The publisher's lowest classified rate paid by commercial users for comparable space, as determined pursuant to § 331A.06, is as follows: **\$224.00**

5. <u>Mortgage Foreclosure Notices</u>. Pursuant to Minnesota Statutes §580.033 relating to the publication of mortgage foreclosure notices: The newspaper's known office of issue is located in Hennepin County. The newspaper complies with the conditions described in §580.033, subd. 1, clause (1) or (2). If the newspaper's known office of issue is located in a county adjoining the county where the mortgaged premises or some part of the mortgaged premises described in the notice are located, a substantial portion of the newspaper's circulation is in the latter county.

FURTHER YOUR AFFIANT SAITH NOT.

Terrí Swanson

Subscribed and sworn to before me on: 08/21/2023

Diane E. Rok Kleszyk



Notary Public

| | | D4 - STAR TRIBLINE | | | | | MONDAY AUGUST 21 2028 |
|-----------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | CL | ASSIF | (EDS +) | PUBLIC | NOTIC | ES |
| etwork | ceived | EPHTPAL POLICIES moderations, if there are not Like, noter us immediately and adjust your bits, but only if and adjust your bits, but only if adjust your bits, but only if adjust you bits, but only if adjust you bits adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust only if adjust on adjust on adjust on adjust on a | STARTRIBU | NE.COM/CLASSIF Certificates of Assumed Name Certificate of | IEDS • 612.673.700 Proposals far Bids EXP Minesets Public Schools is accepting search did in 7 Vinder School Year und September 20. 223.7 to 6814 the Indonesian to No except on the service with the | 0 • 800,927,9233 | 404 Dogs виссклаванов такала и по какала са такала и такала и такала вела с на такала и такала и такала вела и такала с по такала и такала и такала с по такала и такала и по такала и такала с по такала и такала по такала и такала с по такала и такала по такала и такала с по такала и такала и по такала и такала с по такала и такала и по такала и такала с по такала и такала и такала с по така по такала и такала с по такала и такала и такала и такала с по такала и такала и такала и по такала и такала и по такала и такала |
| chasing Ne | s will be re | inther damage which may re- ordinant Ar al clow more than an proved by the prevedent mest charges which to mean or any the second second second clower and the second second clower and the second second to charge and the second second second second to charge and the second second second second second to charge and the second second second second second second to charge and the second second second second second second to charge and the second secon | District: (MCWB) Beard of Managers end will had a public neuring at their regular meeting on Thunday. Service conventions on the Districts 2024 budget and levy. The MCWD has set a produced budget of 112/076/551 and a produced levy of 112/076/551 and a produced levy of the set a produced budget of 112/076/551 and a produced levy of 112/076/551 and a produced levy can be found an www. minnehanagreeking/budget. The found and www. minnehanagreeking/budget. | L Stain the exact assumed name under which the business is or will be compared birts. Repair Servi- 7, State the address of the priori- pol place of business. Star Studie world Drive Business. Star Studie Autom Studiess under the above Autom Studiess under the above Assumed Frames Kirk Stellum Star Studiess and Studies and Star Studies and Studies Stellum Star Start Evangeties Intellum Star Start. | and download the rood Service Information for Sldding poet- rel of shding poet- perior status and SIZ4 Collectibles Adverts Surred Trey, servic schild markas, Net Weber, die Cat. Action markas, Net Weber, die Cat. Action Party NG CASH (no check) | masks, borr 422, Vice at pupples, born basch for Gelle, with Sanna Aarris 560 (15-3):3401 Gastaphotobolks, simplo fubors, for the second second second second to the second second second second between the second second second for the second second second second for the second second second second for the second second second second for the second second second for the second second second for the second second second second second second for the second second second second second second for the second second second second second second second for the second second second second second second second for the second s | VIELE PURA Aut I new 11000. Ver Precked, Justimer, Brayner, Frig purch Mr. Califrent 605447.120 Westless ver checked Minist and ready this westword Californian to terminism 312446447 Ministre Alexandro Westless version and a suprome west 312 and the Ministre Ministress, ber Maners, Ministress, ber Maners, Ministress, ber Maners, Ministress, ber Maners, Ministress, ber Maners, Ministress, ber Minis |
| Cooperative Pur N/A | Sealed proposal | Summors TATE OF ANALYSISTA BOUNTY OF YON OT ANGLE DISING COUNTY OF YON OT ANGLE DISING COUNTY OF YON COUNTY OF YON COUNTY OF YON ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALYSIST ANALY | Where those in the know go. Selfyour stuff quickly in the Star Thoure Classified, it's samply the bask way to reach the largest audence in the | 4.) Certify that I are authorized to criter that I understand that by liping the certificant I are too set of the inderstand that by liping the certificant I are too set of the inderstand statute the set of the statute I are too bacter statute I are too the set of the set of the set of the set of the set of the Date of set of the set of the Proposals for Bids Cancer and set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the s | The second secon | ULBRAND SILE/ILLAU FURS ILLAU AND | And A main the sector is the first of the sector is a sector is the first of the sector is a sector is a sector is a sector is a sector is a sector is a sector is a sector is a sector is a the sector is a sector is a sector is a sector is a sector is a sector is the sector is a sector is a sector is a sector is the sector is a sector is a sector is a sector is the sector is a sector is a sector is a sector is the sector is a sector is a sector is a sector is a sector is the sector is a sector is a sector is a sector is a sector is the sector is a sector is a sector is a sector is a sector is the sector is a sector is the sector is a sector is a sector is |
| | ·febau | Vergewerk by default will be laker and in the compliant. The collect of this action is Dissibilitien of Mar- nage. 2072/033 Marshall, klinerota Teanthoria Olayreka Evans Your move, Your ad. | tive Cities. To place an ad, call 612 673.7000. (ar 612.673.4884 or go to startribune.com/placeads. | Specifications and forms may be oblained by requisition for free with CPC on Public Pub- Chast (awww.gub/Gournass.com). Propessis must be upinated to the the state of the state of the the the state of the state of the the state of the state of the state of the state of the state of the state red. | Veare 43p. Will bick up. 612-747-8458 400 Dogs Aussia Doodle pupples All vet work dome, Readynew, Call for more fri- formation. 500 507-380-343 Bernadoostilles Loom 50-231-308 Bernadoostilles Loom Bernadoostilles | mather, avoid now, Cate, Lurey, address bells: 8000, Cate 15: 617: 620; 200 Baar of 15: 617: 641; 200 Baar of 15: 617: 641; 200 Baar of 15: 617: 641; 200 Baar of 15: 617: 617: 617 Baar of 15: 617: 617 Baar of 15: 617 Baar | His on Rys 11/27-202 With we fight 11/27-202 Historie 1/4 12/25/202 Historie 1/4 12/25/202 WENICLES WANTED |
| Advertiser: Agency: Sertion Pare 7 | Description: | Mortgage Forescioures Notice of Montance Fore- to Direct of Montance Fore- tion of the second second of the test foreign and the second second test foreign and the second second test foreign and the second second test for accurate in the conduct test for accurate in the second test for accurate in the second | Монтрасе Foreclosures Алтист С. Синкан, Газ "Виду Wee Hong, Каз Алтист К. Контан, Газ Солоние и Казание Солоние Казание Солоние Солона, Салание Солоние Солона, Салание Солоние Солона, Салание Солоние Солона, Салание Солоние Солона, Салание Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние Солоние | Mortigoge Foreclosures NOTICE OF MORTAGE POR- CHERT AND CALIFORM OF THE THE DAY AND CALIFORM OF THE THE DAY AND CALIFORM OF THE THE PARTICIPATION OF THE NOTICE OF THE THE AND THE NOTICE OF THE THE AND THE Marine and California of the Marine and Cal | Montgoge Foredosures Interface Systems Inc. as tende Start And Tender Barris Market of Fahrle as- Barris And Tender Barris Carly Sources Assidewint for Montalia Assidewint for Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Montalia Mon | Management Management Status Text Biological Conten- text Status Text Biological Conten- text Biological Content and Content and Content and Content and Content and Content and Content and Content and Content Content of Management Content of Management Content of Management Content of Management Content of Management Flat and Content Content Flat and Conten | Montgage forcedosures to abartement, including attacks the abartement is the data of the a- contained with a bart the the neutralized states and the second |
| 0000465436-01 N/A | | DATE AND PLACE OF TERGS THE period starting the Character of The terms of the Character of the terms construction of the Character of the terms of the Character of the construction of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of te | Martine Statement and sector and the sector of the sector | нализија Служе Риссина Сол Анариат II. Б. Вил Ка- оради за Слеко Порељени С. С. Вил Ка- оради за Слеко Порељени С. С. С. С. С. С. Канариска С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С. С | зтиту лоба 56 от нопоните за поста стала и поста и поста стала и поста и поста и поста сталата на матели поста и поста сталата на матели поста и поста на матели сталата и постал | cantenand in that monthand, main status (in Shall monthand, main status (in Shall monthand, main status (in Shall Shall Shall and Shall Shall Shall Shall shall shall be shall be shall be been shall be shall be shall be be shall be shall be shall be shall be shall be shall be shall be shall be shall | THE TREP, ALL OND IN TAMA FOR DOM: THE UNDERSTORY OF TAMA FOR DOM: THE UNDERSTORY OF TAMA FOR DOM: THE UNDERSTORY OF TAMA FOR DOM: TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FOR TAMA FO |
| Ad Number: 0 nsertion Number: 1 Size: 0 | Color Type: | Company, at water, by HOSCO supprint receipts to Colore 5, HOSCO 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | Трать номе тили этого 2016 ста так в 2002 в 1.000 ста так в 2002 ст | Anone is of the analysis of th | outen intern has indigiously included inter, in order or rate. The second or rate. The second or rate. The second of the power of the second of the second of the second of the second of the second of the second of the second of the second of the second of the sec | 4. 2024. Об Мин ней Наколиче бана и престоран в различетование, полно- престорание различетование, престорание и престорание, престорание и престорание, престорание и престорание, обще такжи в престорание, самота и престорание и престорание статите с делета в монтарание статите с делета в монтарание статите с делета в монтарание статите с делета в монтарание престорание и престорание престорание и престорание и престорание престорание и престорание и престорание престорание и престорание и престорание и престорание и престорание и престорание и престорание и престо | Amendes television of the source of the sour |
| StarTribune | fonday, August 21, 2023 | COCATED TANING Count, Market Correspondence of the Count of the Count of the Analysis of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the Count of the | Transaction, Address & Markinsky Address & Markinsky Address & Marken & Mar | Shariba Shinka, Cashi Judi, Safri Kashi Shinka Shinka, Shinka Shinka Shinka Shinka Shinka Shinka Shin | | Level A Pull: CIPP Troot 1. Initial Activity Black Troot 1. Initis Black Black Troot 1. Initis Black Black Troot 1. Initial Ac | District And State Provided And Provided |

| From: | Public Purchase |
|----------|-----------------------------------------------------------------------------------------|
| То: | Lisa Truax |
| Cc: | Lori Mittelstadt; Melissa Mattson |
| Subject: | [External]Release Successful on Bid RFP #24.5 - Lighting Audit Services & LED Solutions |
| Date: | Monday, August 14, 2023 10:34:33 AM |
| | |

Lisa M Truax:

Bid "RFP #24.5 - Lighting Audit Services & LED Solutions" Status: Release Successful on Aug 14, 2023 10:34:23 AM CDT

You can check the released bid by going to the following address: http://www.publicpurchase.com/gems/bid/bidView?bidId=176590

If you have any questions regarding this bid, please contact our Customer Support Staff at agencysupport@publicpurchase.com

Thank you for using Public Purchase.

MK= uOzqeqODq7XY/f3fHQUc3g==

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Proposals Requested by the: **Cooperative Purchasing Connection**

COOPERATIVE

Purchasing

CONNECTION

RFP 24.5 – Lighting Audit Services & LED Solutions

CPC is seeking to collaborate with an experienced Vendor(s), equipped with the necessary resources and capabilities to develop a program for participating agencies to have the ability to acquire lighting audit services and energy efficient light emitting diodes (LED) solutions at consortium level discounted pricing. Vendors able to provide a full turn-key solution shall only include LED lighting solutions that will provide an efficient, cost-effective way to illuminate their facilities.

Due: 10:00 a.m. CT on Thursday, September 7, 2023

Vendors will submit questions and proposals online via Public Purchase (<u>www.publicpurchase.com</u>)

RFP Facilitator: Lisa Truax Procurement Coordinator **Published in:** Star Tribune Argus Leader Fargo Forum Bismarck Tribune

Table of Contents

- I. Introduction to CPC
- II. <u>Solicitation Description</u>
- III. <u>Responding Minimum Qualifications</u>
- IV. <u>Technical Specifications</u>
- V. <u>Timeline</u>
- VI. <u>Method of Award</u>
- VII. Solicitation and Submittal Procedures
- VIII. Solicitation Terms and Conditions
- IX. <u>Appendix A: Sales Report Template</u>
- X. Appendix B: New Vendor Implementation Checklist

I. Introduction to CPC

The Cooperative Purchasing Connection (CPC) is a joint powers group of local governmental agencies and service cooperatives in Minnesota, organized pursuant to Minnesota Statute §123A.21. CPC obtains the legal authority to develop and offer, among other services, cooperative procurement services to members and participants. Eligible and existing participants include state, city, and county governments, as well as tribal nations, government agencies, both public and non-public educational agencies, colleges, universities, nonprofit organizations, and other entities contracted on behalf of an agency. Participation in the resulting contract(s) is open to government and nonprofit agencies across the United States

In addition, the North Dakota Educators Service Cooperative (NDESC) is a joint powers group organized under the provisions of Chapter 54-40.3 of the North Dakota Century Code. NDESC holds a joint powers agreement with Lakes Country Service Cooperative (LCSC) in Fergus Falls, Minnesota, to provide purchasing contracts to its participating agencies. South Dakota participating agencies may also utilize CPC's purchasing contracts pursuant to South Dakota State Statute §5-18A-37.

Cooperatives participating in this solicitation include AEA Purchasing, a 28E association of the Iowa Area Education Agencies (Iowa AEAs) and CESA Purchasing (Wisconsin). AEA Purchasing's primary function is to provide a voluntary purchasing program for K-12 schools by bringing all statewide school purchasing programs under one legal entity and one fiscal management group. CESA Purchasing was created by the 12 CESAs in 2006 so that all Wisconsin school districts could utilize discounts and contracts.

LCSC provides the administrative functions of CPC. Administrative functions include but are not limited to bid and contract research, contract development, negotiations; fiscal reporting agent; marketing; contract promotion and agency support services.

CPC is managing this solicitation and the resulting contract(s). All reporting and applicable administrative payments for sales under this contract(s) will be received and managed by CPC (LCSC).

II. Solicitation Description

CPC is seeking to collaborate with an experienced Vendor(s), equipped with the necessary resources and capabilities to develop a program for participating agencies to have the ability to acquire lighting audit services and energy efficient light emitting diodes (LED) solutions at consortium level discounted pricing. Vendors able to provide a full turn-key solution shall only include LED lighting solutions that will provide an efficient, cost-effective way to illuminate their facilities. A qualified Vendor shall have established a percentage discount from a catalog list, published prices, or price list. Discounts may be submitted for an entire catalog or for specific product categories or manufacturer categories. Lighting audit services and LED lighting solutions may include, but is not limited to the following categories:

- 1. Lighting audit walk-though (per square foot)
- 2. Energy and savings reports
- 3. LED solutions
- 4. Installation services
- 5. Energy rebate assistance
- 6. Recycling services

Through the combination of purchasing power, CPC's objective is to achieve cost savings through a single competitive solicitation process. This process eliminates a Vendor from responding to multiple quotes and proposals allowing for the reduction in administrative and overhead costs through CPC's purchasing procedures. CPC will work closely with the Vendor to market the contract

not only to participating agencies but also to potential agencies where the contract would be an advantageous option for growing participation and purchases through the Vendor.

CPC intends to award this solicitation to one or more Vendors who can offer acceptable services and solutions that can be of benefit to all participating agencies in all five (states).

The contract(s) resulting from this solicitation will be Indefinite Delivery, Indefinite Quantity (IDIQ) contract(s). Historically, from November 2019 through March 2023, CPC participating agencies have purchased over \$3.9 million in lighting audit services and solutions in Minnesota, North Dakota, and South Dakota. The participation and expansion with Iowa and Wisconsin will bring continued growth to this category. All quantities or dollar values listed within this solicitation are estimates.

Numerous factors could cause the actual value of the contract(s) resulting from this solicitation to vary substantially from the historical value. Such factors include, but are not limited to, the following:

- 1. There is no guarantee of volume to be purchased, nor is there any guarantee that demand will continue in any manner consistent with previous purchases; and
- 2. The individual value of each contract is indeterminate and will depend upon actual participating agency demand, and actual quantities ordered during the contract period.

In CPC's experience, depending on the price of a particular item, the actual volume of purchases could be substantially in excess of, or substantially below, estimated volumes. Specifically, if actual contract pricing is lower than anticipated or historical pricing, actual quantities purchased could be substantially greater than the estimates; conversely, if actual contract pricing is higher than anticipated or historical pricing, actual quantities purchased could be substantially lower than the estimates. By submitting a response, the Vendor acknowledges the foregoing and agrees that actual good faith purchasing volumes during the term of the resulting contract(s) could vary substantially from the estimates/historical values provided in this solicitation.

III. Responding Minimum Qualifications

All submittals must contain answers, responses and/or documentation to the information requested herein. Any submittal failing to provide the required information and/or documentation will be considered non-responsive. A submittal considered non-responsive may result in possible disqualification for consideration of a solicitation award.

Responding Vendors must demonstrate their ability, capacity, and available resources to provide lighting audit services and LED solutions to participating agencies. Vendors are required to communicate and demonstrate within their submittal that they have extensive knowledge, background, and at least five (5) years of experience with auditing, obtaining, producing, delivering, and supporting the product lines and services offered. Other factors may be used to determine if a Vendor's submittal and offer has proven to be of sound responsibility.

CPC reserves the right to accept or reject any Vendor's proposal failing to demonstrate their abilities or capacity solely based on information provided in the solicitation response and/or its own investigation of the company.

IV. Technical Specifications

An attempt has been made to standardize the language used in this solicitation. The words "must", "shall", "mandatory" and the phrase "it is required" are used in connection with a mandatory specification. The words "should" and "may" are used in connection with a specification that is desirable.

A. General

- 1. The Vendor must provide lighting audit services, LED solutions and equipment, or a combination of both when requested by participating agencies.
- 2. The Vendor must provide participating agencies who have questions, issues, and/or concerns with an efficient response; responding to agencies within 24 hours.

B. Lighting Audit and/or Installation Services

- 1. Lighting audit services will be offered at a per square foot rate (see Pricing Schedule). The lighting audit shall result in the following, at a minimum:
 - a. Summary of the lighting audit and walk-through.
 - b. Energy and savings report(s); kilowatts and energy saved.
 - c. Estimated utility rebate(s), if applicable.
 - d. Fixture/lamp report, by location, including current product versus proposed product.
 - i. If able, Vendor should propose a good, better, best option for proposed (replacement) product.
 - e. Return on Investment (ROI) projections.
 - f. Proposed project timeline.
 - g. Proposed project costs including recycling services if available.
- 2. Pricing for design layout and/or installation will be at an hourly rate. The Vendor must outline all service charges for project design and installation. If the Vendor charges for installation by a method other than hourly or percentage, a complete explanation, and breakdown of how charges are calculated must be included with the Vendor's submission.
 - a. Weekdays (M–F)/Normal Working Hours: 7am CT to 5pm CT
 - b. **Evenings:** After 5pm CT and before 7am CT.
 - c. Weekends/Holidays: After 5pm CT on Friday and before 7am CT on Monday.
- 3. Prevailing Wage. If the resulting contract involves a project erection, construction, remodeling, or repairing of a public building or other public work financed in whole or part by State [Minnesota] funds, then pursuant to Minnesota Statutes 177.41 to 177.44 and corresponding Minnesota Rules 5200.1000 to 5200.1120, this contract is subject to the prevailing wages as established by the Minnesota Department of Labor and Industry. Specifically, all Vendors and all tiers of subcontractors must pay all laborers and mechanics the established prevailing wages for work performed under the resulting contract. Failure to comply with the aforementioned may result in civil or criminal penalties. Applicability: The prevailing wage applies to a contract or work under a contract, under which:
 - a. Only one (1) trade or occupation is required to complete it and the project is greater than \$2,500; or
 - b. The estimated total cost of completing the project is greater than \$25,000.For questions regarding prevailing wage laws, contact the Minnesota Department of Labor and Industry.

If required by law in Iowa, Wisconsin, or any state where work is conducted, prevailing wage requirements must be followed.

- 4. Prevailing Wage/Davis Bacon [State & Federal Funds]. The Vendor's hourly price shall include, but is not limited to, wage requirements, equipment and tools normally associated with the removal and installation of goods and services. Due to wage rate requirements for State and Federal funded projects, the costs associated with labor may increase from contracted pricing.
- 5. The Vendor subcontractors will maintain in current status, all federal, state, and local licenses, bonds, and permits required for the performance and delivery of any and all products and services in response to this solicitation. This also includes any contractor's licensure as required by state law. The Vendor must have the ability to furnish all required labor, materials, equipment, parts and supplies necessary for the services requested.
- 6. The Vendor will possess the ability to assess and determine existing site conditions and the participating agencies' expectations for the products being purchased.

- 7. Installation times will be coordinated with the purchasing agency. All areas will be kept clean and free of debris. Vendors must be able to provide the purchasing agency with a list of responsibilities for installation, a minimum of five (5) business days prior to the start of installation.
- 8. All personnel that are working in participating agencies must be bonded and insured and follow all participating agencies' requirements for contractors and subcontractors.
- 9. Subcontractors.
 - a. The Vendor will not assign any duties to perform services nor to provide goods to purchasing agencies under this contract to a subcontractor that is not listed in the Subcontractor Utilization Form.
 - b. If a subcontractor is removed from the contract agreement at any time, the Vendor will submit to CPC in writing the reason for removal and effective date.
 - c. To add a subcontractor to the contract agreement, the Vendor must submit to CPC an updated Subcontractor Utilization Form. The subcontractor may not begin providing service until approved by CPC.
 - d. The Vendor will be responsible for ensuring that all subcontractors who provide goods or services under the resulting contract agreement comply with the terms and conditions.
 - e. CPC reserves the right to require that a subcontractor be removed from the contract.
 - f. Any damage done to the participating agencies' property by contractors or subcontractors shall be repaired or replaced at no cost to the participating agency.
- 10. All services will be 100% guaranteed. Any service provided which does not meet the endusers' expectations will either be redone until the end-users' expectations are met, or the charges for the services are refunded to the participating agency.

C. LED Solutions, Equipment, and Supplies

- 1. All equipment, supplies, parts, and all related accessories that can be purchased must be new and actively marketed products by the manufacturer's authorized dealers.
- 2. If an electronic online catalog for order entry is made available, it must indicate product discounts and, if applicable, the differing discounts for catalog categories awarded.
- 3. The Vendor must have access to a full inventory of the proposed product line(s) while maintaining a minimum monthly average fill rate of 95% or above. Items that are reordered, back-ordered, or partially filled are not considered filled items when calculating this service level.
- 4. A Vendor must offer LED lighting solutions such as decorative lighting, exterior lighting, high/low bay lighting, bulbs, lamps, linear lighting, interior lighting, and retrofit kits.
- 5. LED lighting products must meet or exceed the following specifications:
 - a. A full, five (5) year replacement warranty.
 - b. Maintain at least seventy (70%) of their initial light output when they reach their rated life hours (L70).
 - c. A rated life \ge 25,000 (bulbs) hours and \ge 50,000 hours (all others).
 - d. An efficacy \ge 90.
 - e. Maintain a Color Rendering Index (CRI) \ge 80.
- 6. A Vendor must provide product specification sheets for all product purchased and/or installed.
- 7. Recalls.
 - a. The Vendor must notify CPC and their participating agencies of any product recalls.
 - b. The Vendor will issue a credit or comparable substitute for any delivered, recalled product at the agency's discretion.
 - c. All costs associated with voluntary and involuntary product recalls shall be borne by the Vendor.

- 8. Substitutions.
 - a. Materials, products, or equipment described in these documents establish a standard of type, function, and quality to be met by any proposed substitution. Unless the specification prohibits substitution, vendors are encouraged to propose materials, products or equipment of comparable type, function, and quality. Proposals for substitute items shall be stated in the appropriate blank on the proposal form, or if the form does not contain blanks for substitution, on the Vendor's letterhead attached to the pricing form. Vendors shall attach to the form a statement of the manufacturer and brand name of each proposed substitution plus a complete description of the item, including descriptive literature, illustrations, performance, and test data and any other information necessary for evaluation. The burden of proof is upon the respondent for the merit of the proposed substitution.

D. Pricing

- 1. Contract discounts and percentages must be held firm during the initial contract period. Additional discounts may be made to accommodate one-time bulk replacements, special promotions, or a large individual project. The Vendor cannot offer additional discounts and percentages to a participating agency beyond a single large project until following the steps outlined below and receiving approval by CPC. CPC may conduct periodic audits and the Vendor will be responsible for full reimbursement for any overcharge to a participating agency.
- 2. The Vendor must provide a discount price schedule for all available, qualified products, labor, and services offered. Price lists are considered firm until the Vendor follows the steps outlined below.
- 3. When a manufacturers' price list is revised, to add or delete products and accessories that result in revised contract pricing, the Vendor shall notify CPC in writing via email as follows:
 - a. Request will be emailed to CPC;
 - b. It is filed with CPC, a minimum of seven (7) calendar days before the effective date of the proposed change;
 - c. It clearly identifies the items impacted by the change and the cause for the adjustment;
 - d. It is accompanied by documentation acceptable to the Procurement Solutions Coordinator to warrant the change (i.e. appropriate Bureau of Labor Statistics, Consumer Price Index (CPI-U, change in manufacturer's price, etc.);
 - e. CPC reserves the right to accept such change and will confirm disposition in writing. For contract administration purposes, CPC must be able to verify the manufacturer's current product price. Price increases that cannot be verified shall not be reflected on the contract nor charged to the participating agency.
- 4. New products and services, pertaining to the scope of this solicitation, can be added during the contract term with notice, as outlined above. These items shall meet or exceed all the specifications established in the solicitation and resulting contract. CPC may direct the Vendor to remove products that do not meet the intent or are otherwise in conflict with the contract requirements.
- 5. CPC expects Vendors to offer their very best prices. If a Vendor offers lower prices to any participating agency outside of this contract, it must lower its prices under this contract at the same time by written notice, via email to CPC.

E. Maintenance Plans

- 1. The Vendor may offer pricing for maintenance for all equipment listed under the solicitation and include it in pricing proposals to participating agencies if requested.
- 2. The Vendor providing maintenance and repair options must provide and clearly state, pricing and terms of the various plans in their submission.

F. Ordering Methods

- 1. All orders will be executed by participating agencies directly with the Vendor. The Vendor may offer a variety of options for agencies to place orders. The Vendor will make all deliveries and installation of products and services. CPC will not warehouse items or provide services.
- 2. Participating agencies may use two (2) different methods of placing orders from the resulting contract: Purchase Orders (PO's) and procurement cards. The method of payment is at the discretion of the participating agency. Additional surcharges for the use of a procurement card must be clearly outlined (see Vendor Questionnaire).
- 3. A PO may be issued to the Vendor on behalf of the participating agency ordering the services covered under the resulting contract. An issued PO will become part of the resulting contract. The PO indicated that sufficient funds have been obligated toward the purchase.
- 4. Regardless of the method of ordering used, solely the contract and any modification determine performance time and dates.
- 5. Performance under this contract is not to begin until receipt of a PO, procurement card order, or other notification to proceed by the participating agencies to proceed.
 - a. See Performance Bond requirements.

G. Freight and Delivery

- 1. All prices submitted are to be F.O.B. Destination, Freight Pre-Paid, and Allowed. Unless clearly stated otherwise by the respondent, prices submitted shall include all charges for transportation, packaging, etc., necessary to complete delivery on an F.O.B. Destination basis.
- 2. Invoice and ship all items directly to CPC's participating agencies unless pre-staging and warehousing is a standard practice prior to project installation. A vendor's shipping preference must be clearly defined in their response (see Questionnaire). A packing slip will be provided with all deliveries including the agencies' purchase order number. Orders not filled and partial shipments shall be indicated on the packing list. Participating agencies shall be notified of an anticipated availability date, within three (3) business days of receipt of order.
- 3. All equipment, supplies, and related accessories must be delivered during normal hours of operation on weekdays, unless at the convenience of the participating agency and through mutual agreement with the Vendor.
- 4. All products must be 100% guaranteed. Any product which is damaged, found to be defective, or does not perform to the end-user's expectations must be replaced at the vendor's expense including all shipping/delivery charges. If a participating agency receives the product(s) that appear to be damaged, they reserve the right to refuse delivery. Participating agencies will not be charged for items that are refused.

H. Payment

- 1. Participating agencies using the resulting contract Agreement will make payments directly to the Vendor.
- 2. Payment terms will be defined by the Vendor in their response.
 - a. Vendors are encouraged to offer payment terms through procurement card (P Card) services, if applicable. Payments shall be made after satisfactory performance, following all provisions thereof, and upon receipt of a properly completed invoice.
 - b. Where a question of quality is involved, payment in whole or part against which to charge back any adjustment required shall be withheld at the direction of the participating agency. In the event a cash discount is stipulated, the withholding of payments, as herein described, will not deprive the participating agency of taking such a discount.
 - c. Payments for the used portion of inferior delivery will be made by the participating agency on an adjusted price basis.

3. The Vendor will submit invoices to the participating agencies clearly stating, "Per CPC Contract". The shipment tracking number or pertinent information for verification shall be made available upon request.

I. Advertising and Marketing

- 1. The Vendor will provide sales and marketing representation that is able to educate, introduce and demonstrate products and/or services.
- 2. The Vendor will be able to assist in developing marketing materials that support the contract.
- 3. The Vendor will provide a comprehensive training and support program on the operation and use of the contract agreement to all applicable personnel. The services offered must be appropriate and adequate to ensure a successful contract agreement.
- 4. All promotional marketing materials must have prior approval before distribution and must include appropriate logos and pertinent contract information.
- 5. Upon award and completion of the vendor orientation, CPC will promote the contract opportunity via its websites. CPC will also announce the new partnership through various marketing channels. Contracts will also be promoted at applicable trade shows, conferences, and meetings.
- 6. CPC will work collaboratively with AEA Purchasing and CESA Purchasing to streamline marketing efforts between all Parties.
- 7. CPC will coordinate marketing meetings with all Parties, including the awarded vendor(s).

V. Timeline

| Date/Time | Event |
|----------------------------------|---------------------------------------------------------|
| August 14, 2023 | Publication of RFP 24.5 – Lighting Audit Services & LED |
| | Solutions |
| August 30, 2023, at 10 a.m. CT | Deadline for Vendors to Submit Questions |
| September 7, 2023, at 10 a.m. CT | Deadline for Submission |
| September 29, 2023 | Contact Vendor/Award(s) Made |
| November 1, 2023 | Initial Start of Contract Term |

VI. Method of Award

This solicitation will be evaluated based on the following combined factors. No single factor will determine the final award decision.

| | Points Available |
|---------------------------------------------------------------------------------------------|------------------|
| Minimum Qualifications | Pass/Fail |
| Required documentation (submittal). | |
| • Extensive knowledge, background, and at least five (5) years of experience with auditing, | |
| obtaining, producing, delivering, and supporting the product lines and services offered. | |
| Debarment and suspension verification. | |
| Technical Proposal | 121 |
| Qualifications & Experience | 75 |
| Warranty | 10 |
| Financials & Level of Support | 10 |
| Marketing & Partnership | 16 |
| Exceptions & Deviations | 5 |
| References | 5 |
| Pricing Proposal | 129 |
| 1 – Lighting Audit Services | 60 |
| Labor rates | |
| • 7 Project Deliverables | |
| 2.1 – LED Category Discount | 30 |
| 2.2 – LED Lighting | 30 |
| 3 – Volume Discounts | 9 |
| Total Points | 250 |

As a part of the process of determining responsible respondents, CPC may request reports that describe the financial soundness of your organization. Accepted financial reports may include balance sheets and Profit & Loss statements for the past three years, a Letter of Credit or Line of Credit from a bank or lending institution indicating the line of credit limit and the average outstanding balance, Dun & Bradstreet reports, a complete Annual Financial Report (for publicly traded companies).

Best and Final Offer (BAFO): CPC may request a BAFO if additional information or modified terms are necessary for the evaluation committee to complete its evaluation and ranking. CPC will set a date and time for the submission of BAFO proposals. The BAFO will be limited to specific sections of the RFP or proposal identified by CPC. A BAFO will not be used solely to reduce pricing. If a BAFO is requested, all short-listed Vendors or, if the short-list process is not used, all qualified Vendors will be provided an opportunity to submit a modified response. Only one BAFO request will be issued by CPC. The information received from the BAFO will be used by the evaluation committee to re-rank the Vendors. If a Vendor does not submit a BAFO proposal or a notice of withdrawal, the Vendor's previous proposal is considered the Vendor's BAFO. CPC reserves the right to proceed directly to negotiations with the highest ranked proposers immediately following the initial submission and evaluation of proposals.

Contract Development: Following the final evaluations and contract negotiations, CPC will develop a Master Contract Agreement with the most highly qualified Vendor(s). If a satisfactory contract cannot be developed with the most highly qualified Vendor(s) the second most qualified Vendor(s) may then be approached to develop a contract.

Solicitation Debriefing: An unsuccessful Vendor may request a debriefing to be scheduled with CPC after the solicitation process has been completed and a Master Contract Agreement with the awarded Vendor(s) has been executed. A debriefing is a learning opportunity for the unsuccessful Vendor to learn about the solicitation process and what measures of their response could be improved. Vendors will not be debriefed on how their response compared to other responding Vendors.

VII. Solicitation and Submittal Procedures

Public Purchase: All solicitations can be found on Public Purchase (www.publicpurchase.com). Public Purchase is an easy-to-use platform that provides Vendors with automatic notification of open solicitations, automatic notification of answered questions and issued addenda, and a way to electronically submit a response to the solicitation. All changes, updates, uploads, and downloads are time-stamped and logged as part of the solicitation process.

Submission of Proposals: It is the responsibility of the Vendor to be certain that the proposal being submitted has been uploaded to Public Purchase by the submission deadline, as described in the solicitation. All proposals must be submitted electronically via Public Purchase. If the proposal has not completed its upload to Public Purchase by the submission deadline, the Public Purchase system will not accept the proposal. If any issues occur during the upload of the proposal, Vendors should contact Public Purchase at <u>support@publicpurchase.com</u> or utilize the chat function within Public Purchase for immediate technical support. The data included in the submission <u>will not be</u> password protected. Hardcopy proposals are invalid and will not receive consideration.

| Document Title | How to Submit |
|-----------------------------------------|------------------------------------------------------------------|
| 1 RFP 2 General Terms and Conditions | Do Not Submit with Response . Retain for your records. |
| 3 Questionnaire – Name of Company | Provided as a Word document. Submit as one (1) PDF. |

| | Include certifications, if applicable. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 4 Forms & Signatures – Name of Company | Provided as PDF. Submit as one (1) PDF, <u>signatures</u> <u>required.</u> |
| 5 Pricing Schedule – Name of Company | Provided as an Excel document. Submit as an Excel document. |
| 6 Certificate of Insurance (COI) – Name of Company | Submit as PDF. Respondent to provide. |
| 7 Project Deliverables - Name of Company Provide a narrative of a recent project that totaled at least \$150,000 in lighting audit and LED solutions. The narrative should describe the lighting audit and its results, a proposed project scope, pricing costs and calculations, any fees, your company's installation/project management rates, and a final report and rebate summary. See Vendor Questionnaire, Qualifications & Experience, #15 and #15a. Provide the supporting documentation for the project described above. Supporting documentation and deliverables must include the following: (i) Lighting audit and results (ii) Proposed project scope, pricing costs and calculations, any applicable fees (iii) Installation/Project Management plan (iv) Final report and rebate summary | Submit as PDF. Respondent to provide. |

Questions: Requests for additional information or questions shall be asked via Public Purchase for all participating respondents to see. CPC will respond accordingly via Public Purchase to all questions asked by the question deadline.

Addenda: Addenda are written instruments issued by CPC which modify or interpret the solicitation documents by additions, deletions, clarification, or corrections. All addenda issued by CPC shall become a part of the specifications and will be made part of the contract. Addenda will be sent automatically through Public Purchase; being logged and tracked within the system. If such confirmation is not received, the Vendor may be deemed non-responsive. Interpretations, corrections, or changes made in any other manner will not be binding, and Vendors shall not rely upon such interpretations, corrections, and changes. No answers to questions or addenda will be issued later than five (5) business days prior to the submission deadline, except an addendum withdrawing the proposal or one which includes postponement of the submission deadline.

Correction of RFP Documents: Upon examination of the solicitation, Vendors shall promptly notify the RFP Facilitator of any ambiguity, inconsistency or error, which they may discover. Any notification of ambiguity, corrections and/or requests for interpretation must be submitted, no later than five (5) business days prior to the solicitation submission deadline. Interpretations, corrections, and changes to the documents will be made either by answers or an addendum.

Late Submittals: Submittals will not be allowed to be submitted or uploaded after the due date and time set by CPC. It is the respondent's responsibility to ensure that submittals are received by the due date and time listed.

Modifications or Withdrawal of a Proposal: A proposal may not be modified, withdrawn or canceled by the Vendor for a period of one hundred twenty (120) days following the submission deadline of the proposal, as each Vendor so agrees in submitting a proposal. Prior to the submission deadline, any proposal submitted may be modified or withdrawn within Public Purchase. Withdrawn proposals may be resubmitted within Public Purchase prior to the submission deadline provided that they are in full conformance with this solicitation.

Rejection of Any or All Proposals: CPC reserves the right to reject any, and all bids/proposals, to waive any informality, or to accept/reject any items listed in the pricing schedule in the best interest of CPC and its participating agencies.

Opening of Proposals (Opening Record): Proposals that have been submitted on time will be opened after the submission deadline. An opening record of the proposals received will be made available.

VIII. Solicitation Terms and Conditions

Performance Bond *(for construction and/or installation related projects)*: As defined by state statute, performance bonds will be required on all projects valued greater than:

- 1. One hundred seventy-five thousand dollars (\$175,000) or more in Minnesota;
- 2. Fifty thousand dollars (\$50,000) or more for educational agencies and two hundred thousand (\$200,000) or more for municipalities in North Dakota;
- 3. One hundred thousand dollars (\$100,000) or more for public improvement in South Dakota;
- 4. Twenty-five thousand dollars (\$25,000) in Iowa, as required by Chapter 573.2;
- 5. Sixteen thousand (\$16,000), following bonding requirements for public improvement projects as required by Wis. Stats. 779.14; or
- 6. Otherwise requested by the participating agency.

All performance bonds will be issued by a corporate surety authorized to do business in the state in which the work will be conducted and by a surety listed in the US Treasury Circular 570. Performance bonds will be posted by the Vendor and submitted to the specific participating agency for the assigned project. Should the contract be the result of a piggyback agreement, performance bonds will reflect each state's bonding requirements.

The Vendor will execute a performance bond in an amount equal to one hundred percent (100%) of the value specified in the contract between the participating agency and the Vendor unless the participating agency requires less to be posted. This bond will protect all persons supplying labor and material to the Vendor for the performance of the work provided in the contract. Subcontractors who may work on the contract may have to provide the Vendor with a performance bond. If the contract price increases after the bond is provided, the participating agency may consider obtaining additional bonds from the Vendor.

The Vendor will deliver the performance bond to the eligible participating agency at the time the contract is executed between the agency and the Vendor. <u>Work will not commence between the Vendor and the eligible participating agency until the performance bond is received by the participating agency and a copy has been sent to CPC via email (info@purchasingconnection.org). The Vendor will be responsible for providing CPC with a copy of all contracts and bonds in accordance with CPC purchasing procedures. Should the Vendor fail to satisfactorily perform the contract, the bonding company that provided the performance bond will be required to pay the dollar amount of the bond to the participating agency.</u>

It is the Vendor's responsibility to ensure that they can obtain the required bonding for all construction products based on an awarded contract arising from this solicitation. <u>Payment will not be issued for any project for which the required bonds have not been received.</u>

With said construction-based project, the participating agency may enter into a separate supplemental agreement to further define the level of service requirements over and above the minimum defined in this solicitation and resulting Master Contract Agreement (i.e. project timeline, completion dates, progress payments, delivery requirements, invoice requirements, etc.). Any supplemental agreement developed because of the Master Agreement is exclusively between the Vendor and the participating agency. CPC, its agents, members, and employees shall not be a party to any claim for breach of such agreement.

Certificate of Insurance: The Vendor must purchase, maintain and <u>provide</u> certification from the insurer for minimal coverage during the life of an awarded contract, to include, but not limited to, comprehensive public and/or commercial liability, errors and omissions, workman's compensation, unemployment, and other insurance coverage required by and applicable to each of CPC's individual state's statutes and federal laws which proposed products and services will be offered and provided. The Vendor must provide a Certificate of Insurance (COI) from the issuing company or their authorized agent, identifying the coverage required below and identifying CPC as a "Certificate Holder". Any required insurance that is canceled before the expiration date of the contract agreement, the issuing company will send immediate notice to CPC. COIs must be updated and sent electronically to CPC upon coverage renewal. The Vendor must meet the following, minimum coverage requirements:

- 1. Commercial General Liability: \$1,000,000 each occurrence, \$500,000 annual aggregate
- 2. Automobile Liability: \$1,000,000 each occurrence
- 3. Workers Compensation: \$100,000

CPC reserves the right to consider and accept alternate forms and plans of insurance or to require additional or more extensive coverage for any individual requirement. <u>The Vendor must provide</u> <u>the COI with their submission.</u>

Binding Contract: A response to this solicitation is an offer to contract with CPC based upon the terms, conditions, the scope of work, and specifications contained in the solicitation. The Vendor acknowledges that the Contract Offer and Award binds the party to all terms and conditions stated in the proposal.

Notification of Intent to Award: An award notification will be made as outlined in the Timeline. The actual award is subject to approval by the CPC Board of Directors and the successful negotiation of a mutually acceptable Master Contract Agreement.

Contract Term: The term of the contract resulting from this RFP will be from November 1, 2023, through October 31, 2025. The contract may be extended for one (1) additional 24-month period, based on successful performance. CPC may grant an extension under certain criteria and conditions. CPC evaluates and reviews all contract agreements. CPC has established a set of performance criteria that will be used in the Vendor evaluation. Performance criteria will include:

- 1. Contract start-up and communication
- 2. Partnership responsiveness with CPC
- 3. Participating agencies evaluation(s)
- 4. Volume, sales, and competitiveness
- 5. Marketing

Administrative Fee: The Vendor will be required to pay a two (2.0%) percent administrative fee on the total sales price of all purchases shipped and billed to participating agencies. This fee is used to cover CPC's program costs, including the cost of conducting the solicitation, continuing support of the contract, and marketing the contract to participating and potential agencies. Administrative fees shall be paid to CPC quarterly, <u>within 20 business days after the end of each fiscal quarter.</u>

Payments must be received either via check or authorized ACH. An ACH enrollment/authorization form must be provided to CPC for completion. ACH remittance notification must be sent to the individual indicated on the ACH enrollment/authorization form prior to ACH payment.

Sales Reports Required of the Vendor: The Vendor will provide CPC with a quarterly report listing the sales volume showing the total gross dollar volume of all purchases made by participating agencies, the administrative fee calculations, and the correlating savings incurred by participating agencies. CPC may also request reports on commonly purchased items or top-selling items to create or update a market basket or core list of commonly purchased items. <u>All reports must be submitted in MS Excel within 20 business days after the end of each fiscal quarter</u>, (see Appendix A) listing the following information:

- 1. Name of purchasing agency
- 2. Address of purchasing agency (city, state, zip code)
- 3. Date of purchase
- 4. Invoice number
- 5. Amount of purchase
- 6. Administrative fee generated by the sale
- 7. Savings generated by the sale

IX. Appendix A: Sales Report Template

CPC operates on a fiscal year (July through June). The Vendor will receive a sales report template like that shown below. Fiscal quarters are outlined as:

July – September October – December January – March April – June

| Vendor Name April - June 20XX Sales Report | | | | | | | | |
|-----------------------------------------------|------|-------|-----|---------------------|-------------------|-----------------------------|-----------------------|-----------------------------|
| Purchasing Agency | City | State | Zip | Date of Purchase | Invoice Number | Invoice Amount Total USD | Administrative Fee | Member Savings Generated |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | 5 - | \$ - | \$ - |

X. Appendix B: New Vendor Implementation Checklist – Sample

The following implementation checklist will commence once the Master Contract Agreement has been executed. Implementation and contract start-up is included as part of the evaluations that CPC conducts in regards to renewing a contract for an additional contract term.

| Task D | escription | Completed By |
|--------|--------------------------------------------------------------------|------------------------|
| 1. | CPC Vendor Orientation | CPC & Vendor |
| | Discuss expectations | |
| | Establish contacts, people, and roles | |
| | Discuss the reporting process and requirements | |
| | Discuss sales and ordering process | |
| | Outline kick-off plan; marketing needs | |
| | Establish Webinar training date, if applicable | |
| 2. | Vendor/Supplier Login Established – Express (if applicable) | Vendor |
| | Complete supplier initiation form | |
| | Complete supplier product template | |
| | Create a user account and user ID – communicate to supplier | |
| 3. | Sales Training and Roll Out | CPC to Coordinate with |
| | CP Personnel Briefing; possible webinar training | Vendor |
| | Marketing information sent to CPC | |
| 4. | Web Development/Express Store (if applicable) | Vendor |
| | Initiate IT contact | |
| | Web store construction | |
| | Web store final edit | |
| | Product loaded into web store in Express | |
| | Test Store Functionality | |
| | Announce Store Availability | |
| 5. | Marketing | CPC |
| | General announcement | |
| | Vendor profile page | |
| | Email signature logo | |
| | Email communication announcement | |
| | *All materials will be approved by Vendor prior to disbursement | |
| 6. | Marketing – Vendor | Vendor |
| | General announcement | |
| | Sales/Account team training; contract highlights including pricing | |
| | schedule | |
| | *All materials will be approved by CPC prior to disbursement | |
| 7. | Management Strategies | CPC & Vendor |
| | Review kickoff and roll-out plan | |
| | Discuss and establish target communication strategy | |
| 8. | Semi-Annual Evaluation and/or Annual Evaluation | СРС |

General Terms & Conditions

The Cooperative Purchasing Connection (CPC) may make amendments to the General Terms and Conditions when CPC determines that such amendments are in the best interest of its participants. All amendments will be agreed upon between the Parties. Submittals by a Vendor certify that they have read the General Terms and Conditions and understand that they apply to all purchases under the resulting contract(s).

COOPERATIVE Purchasing

Alcoholic Beverages, Substance Use, and Weapons: A Vendor shall not permit its personnel or any subcontractor to possess upon school property any alcoholic beverages, illicit/non-prescribed drugs, tobacco products, or weapons. All personnel must follow all local substance rules and conduct (dress code, language, parking, etc.) policies while on school premises. Any actions involving, or possession of, any of the aforementioned items while on school property may cause a cancellation of any Agreement, at no cost to CPC and its participating SFAs. Criminal charges may apply.

Assignment: Any contract awarded under the conditions of this solicitation shall be for the use of organizations eligible for participation. Any eligible agency may participate (piggyback) with this contract at its discretion, with the consent of the Vendor. The Vendor must seek approval from CPC before utilizing the contract with another eligible agency. CPC has partnerships with consortiums across the United States. CPC will work with the Vendor to make such connections should the Vendor want to piggyback the contract as a vehicle for additional sales. All requirements of this solicitation will apply to all participating eligible agencies. Agencies participating in this contract shall be responsible for obtaining approval from their approving body of authority when necessary and shall hold CPC harmless from any disputes, disagreements, or actions which may arise as a result of using this contract.

Audit: Under applicable law, the Vendor will agree that members of CPC's purchasing team may audit their records to establish that total compliance of the agreement is met. CPC will ask participating agencies for invoices showing purchases from the Vendor. The Vendor will agree to provide verifiable documentation of all purchases made by said agencies and will make every reasonable effort to resolve discrepancies fairly and equitably to the satisfaction of both CPC and the Vendor. CPC will require a refund to the agencies involved if any difference in price is found and will also require payment of any administrative fees due resulting from sales that were not listed on the sales report(s). CPC will give at least five (5) calendar days' notice of an audit. The audit will be conducted at a reasonable place and time.

Awarded Vendor: The Respondent(s) chosen by CPC to provide goods and/or services to participating.

Awards: Awards will be made with reasonable promptness and by written notice to the successful Vendor; solicitation responses are considered to be irrevocable for a period of one hundred twenty (120) days following the solicitation opening unless expressly provided for to the contrary in the solicitation and may not be withdrawn during this period without the express permission of CPC.

- 1. Awards shall be made to the Vendor whose offer(s) constitutes the lowest responsive price offer (or lowest responsive price offer on an evaluated basis) for the item(s) in question or the solicitation as a whole, at the option of CPC. CPC reserves the right to determine those offers which are responsive to the solicitation, or which otherwise serve its members' best interests.
- 2. CPC reserves the right, before making an award, to initiate investigations as to whether or not the materials, equipment, supplies, qualifications or facilities offered by the Vendor meet the requirements outlined in the proposal and specification and are ample and sufficient to ensure the proper performance of the contract in the event of an award. If upon such examination it is found that the conditions of the proposal are not complied with or that articles or equipment proposed to be furnished do not meet the requirements called

for, or that the qualifications or facilities are not satisfactory, CPC may reject such offer. It is distinctly understood, however, that nothing in the foregoing shall mean or imply that it is obligatory upon CPC to make any examinations before awarding a contract; and it is further understood that if such examination is made, it in no way relieves the Vendor from fulfilling all requirements and conditions of the contract.

- 3. Qualified or conditional offers which impose limitations of the Vendor's liability or modify the requirements of the solicitation, offers for alternate specifications, or which are made subject to different terms and conditions than those specified by CPC may, at the option of the CPC, be:
 - a. Rejected as being non-responsive, or
 - b. Set aside in favor of the CPC's terms and conditions (with the consent of the respondent), or
 - c. Accepted, where CPC determines that such acceptance best serves the interests of participating agencies and CPC.

Acceptance or rejection of alternate or counteroffers by CPC shall not constitute a precedent that shall be binding on successive solicitations or procurements.

- 4. CPC reserves the right to determine the responsibility of any Vendor for a particular procurement.
- 5. CPC reserves the right to reject any responses in whole or in part, to waive technical defects, irregularities, and omissions, and to consider past performance of the offeror wherein its judgment the best interests of participating agencies will be served by so doing.
- 6. CPC reserves the right to make awards by items, group of items or on the total low response for all the items specified as indicated in the detailed specification unless the Vendor specifically indicates otherwise in their response.
- 7. Preference may be given to responses on products raised or manufactured in the state, other things being equal.

Confidential Information: CPC is a public entity; the information contained in the proposals shall be considered public information under the Minnesota Government Data Practices Act, Minnesota Statutes Chapter 13 et. seq. No part of a proposal shall be treated as confidential unless so designated, by the Vendor submitting the proposal, as trade secret information having met the criteria under Minnesota Statutes § 13.37 Subd. 1(b) and other applicable laws. Any data claimed by the vendor submitting the proposal to be trade secret data must be marked "proprietary and confidential." Should a challenge occur to said Vendor's designation of data as "proprietary and confidential," the vendor shall indemnify and hold CPC harmless for any attorney's fees, costs, penalties, or losses associated with such designation. CPC makes no representations to any vendor regarding their designation of data as "proprietary and confidential." CPC designates the sales reports and administrative fee data, references in this solicitation, as confidential. Therefore, under no circumstances, release this data to any entity other than CPC. CPC, however, is a government entity, is required to, upon request of any individual organization; make this information available to the person(s) requesting to contact the CPC department.

Costs of Preparation: All costs associated with the preparation, development, or submission of a response or other offers will be borne by the Vendor. CPC will not reimburse any Vendor for such costs.

Default Contract: The resulting contract shall be the default contract. All participating agencies' purchases will receive the pricing described in this contract and CPC will receive credit for those purchases made by participating agencies.

Express Online Marketplace: CPC provides participating agencies with an online purchasing platform called Express. Through Express, agencies can search for and purchase items. Essentially, Express is a one-stop-shop for many of CPC's commodity-based contracts. A Vendor does not have to have an e-commerce site to be included in Express. Express offers integration into two (2) of the main K-12 school financial systems in Minnesota. CPC expects growth in the number of agencies utilizing the marketplace and the volume of sales to grow significantly. CPC will work with the Vendor to determine if the contract agreement is suitable for the online platform. If deemed suitable, CPC will require integration into Express promptly as outlined in the solicitation.

Entire Agreement: The Master Contract Agreement, shall constitute the entire and exclusive agreement between CPC and any vendor receiving an award. In the event of any conflict between the bidder's standard terms of sale, these conditions or more specific provisions contained in the solicitation shall govern.

- 1. Each proposal will be received with the understanding that the acceptance, in writing, by contract or purchase order by the participating agency of the offer to do work or to furnish any or all the materials, equipment, supplies or services described therein shall constitute a contract between the Vendor and the participating agency. This shall bind the Vendor to furnish and deliver at the prices following the conditions of the said accepted proposal and detailed specifications and the participating agency to pay for at the agreed prices, all materials, equipment, supplies, or services specified and delivered. A contract shall be deemed executory only to the extent of funds available for payment of the amounts shown on purchase orders issued by the participating agency to the Vendor.
- 2. No alterations or variations of the terms of the contract shall be valid or binding unless submitted in writing and accepted by CPC. All orders and changes thereof must originate from the participating agencies: no oral agreement or arrangement made by a contractor with an agency or employee will be binding on CPC and may be disregarded.
- 3. Contracts will remain in force for the contract period specified or until all articles or services ordered before date of termination shall have been satisfactorily delivered or rendered and accepted and thereafter until all terms and conditions have been met, unless
 - a. Terminated prior to the expiration date by satisfactory delivery against orders of entire quantities, or
 - b. Extended upon written authorization of CPC and accepted by the Vendor, to permit ordering of the unordered balances or additional quantities at the contract price following the contract terms, or
 - c. Canceled by CPC following other provisions stated herein.
- 4. It is mutually understood and agreed that the vendor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest therein, or his power to execute such contract, to any other person, company or corporation, without the previous consent, in writing, of CPC.
- 5. If subsequent to the submission of an offer or issuance of a purchase order or execution of a contract, the Vendor shall merge with or be acquired by another entity, the contract may be terminated, except as a corporate resolution prepared by the Vendor and the new entity ratifying acceptance of the original bid or contract terms, condition, and pricing is submitted to CPC, and expressly accepted.

Federal Uniform Guidance: By entering a contract, the Vendor agrees to comply with all applicable provisions of Title 2, Subtitle A, Chapter II, Part 200 – Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards contained in Title 2 C.F.R. § 200 et. seq. (See Vendor Forms and Signatures).

Fiscal Year: a fiscal year is defined as July 1 through June 30 of the following calendar year. The fiscal quarters end on September 30, December 31, March 31, and June 30.

Force Majeure: Except for payments of sums due, neither party shall be liable to the other, nor deemed in default under this contract, if and to the extent that such party's performance of this contract is prevented by reason of force majeure. The term "force majeure" means an occurrence that is beyond the control of either party affected and occurs without fault or negligence, including, but not limited to, the following: acts of nature; acts of the public enemy; pandemics; war; riots; strikes; mobilization; labor disputes; civil disorders; fire; flood; earthquakes; famine; volcanic eruptions; meteor strikes; lockouts; injunctions-interventions-acts or failures; or refusals to act by government authority; and other similar occurrences beyond the control of the party declaring force majeure which such party is unable to prevent by exercising reasonable diligence. The force majeure shall be deemed to commence when the party declaring force majeure notifies the other party of the existence of the force majeure and shall be deemed to continue as long as the results or effects of the force majeure prevent the party from resuming performance in accordance with this agreement. Force majeure shall not include late deliveries of software or materials caused by congestion at a manufacturer's plant or elsewhere, an over-sold condition of the market, inefficiencies and poor

management practices, or similar occurrences. If either party is delayed at any time by force majeure, then the delayed party shall notify the other party in writing of such delay within 48 hours.

A Vendor requesting relief under this provision must adhere to the following conditions prior to the price of any product being adjusted:

- 1. A formal, written request for a price increase must be submitted by the Manufacturer to CPC prior to the price change taking effect. CPC must approve the request. The request will include the Force Majeure cause substantiating the reason the relief is being requested.
- 2. Adequate documentation to substantiate the request must be included.
- 3. Failure to comply with provisions of the Force Majeure shall be cause for a request to be denied.

Governing Law: This resulting contract award shall be interpreted and construed in accordance with and governed by the laws of the State of Minnesota.

Governing Venue: The resulting contract award shall be deemed to have been made and performed in Otter Tail County, Minnesota. All legal arbitration or causes for action arising out of the resulting agreement shall be brought to the courts of Otter Tail County, Minnesota.

Hold Harmless: All parties agree to hold the other harmless from any claims and demands of participating agencies which may result from the negligence of the other in connection with their duties and responsibilities under this agreement unless such action is a result of intentional wrongdoing of the other party.

Leasing and Rental Agreements: The Vendor may allow participating agencies to enter into a rental, lease, or lease-purchase agreements, providing such agreements comply with Minnesota Statutes and guidelines. CPC must receive a report annually, summarizing the executed lease purchases along with a summary of the participating agencies' purchases. CPC will not collect lease payments or be involved in the terms and conditions of the lease. All lease arrangements are between the Vendor and the participating agency. The Vendor agrees that leases will comply with the Uniform Commercial Code. The applicable administrative fee must be included in the lease cost based on the total value of the goods and applicable services purchased. This fee is referred to under the Technical Specifications. The Vendor should attempt to work with CPC's current leasing vendor. Note, the current leasing vendor may require a minimum purchase amount to begin the leasing process. Should the Vendor be required to utilize their own financial leasing company, this should be noted/requested as an exception.

Minority and Women-Owned Business: CPC intends to undertake every effort to increase the opportunity for utilization of minority and women-owned businesses in all aspects of procurement. In connection with the performance of this solicitation, the Vendor agrees to use their best effort to carry out this intent and ensure that minority and women-owned enterprises shall have the maximum practicable opportunity to compete for subcontract work under this solicitation consistent with the efficient performance of this solicitation. CPC desires to promote wherever possible equitable opportunities for minority and women-owned businesses to participate in the services associated with this solicitation.

New Agency Notification: CPC will email the current participating agency list to the Vendor each quarter. Those agencies not renewing their participation must not receive CPC agency pricing/discounts.

Notices: Notices permitted or required to be given hereunder shall be deemed sufficient if given by written email addressed to the following recipients of the parties, or at such other addresses as the respective parties may designate by like notice from time to time. Notices so given shall be effective upon (a) receipt by the party to which notice is given. Notices shall be sent to <u>info@purchasingconnection.org</u>.

Patent Indemnification: The Vendor agrees to hold harmless CPC, its successors, assigns, customers and the users of its products from any liability of any nature or kind for use of any copyrighted or copyrighted composition, secret process, patented or unpatented invention, articles or appliances furnished or used in the performance of the contract agreement, for which the contractor is not the patentee, assignee or licensee.

Participating Agency: A participating agency shall be defined in accordance with the Minnesota Statutes M.S. §471.59, and M.S. §123A.21, Sub. 11, North Dakota Century Code Chapter 54-40.3, and South Dakota Statutes §5-18A-37. An eligible agency includes any school, higher education, city, county, other governmental agency, nonprofit organization, or other entity contracted to conduct business on behalf of a participating agency provided that the entity is required to follow state and local procurement regulations.

Party: The name given to either organization who enters into a contractual agreement.

Protests: All protests pertaining to the specifications of the solicitation must be delivered in writing and received by the RFP Facilitator no later than 4:00 p.m. CT on the third (3) business day before the opening of proposals. A protest shall be filed no later than three (3) business days after the opening of the proposals or if the protest is based on subsequent action of CPC, not later than three (3) business days after the aggrieved person knows or should have knowledge of the fact giving rise to the protests. Protests of an award will only be accepted by Vendors who have submitted a response to the solicitation. Respondents may protest only deviations from laws, rules, regulations, or procedures. Protests must specify the grounds for the protest including the specific citation of law, rule, regulation, or procedure upon which the protest is based. The judgment used in the scoring by individual evaluators may not be protested. Protests not filed within the time specified above, or which fail to cite the specific law, rule, regulation, or procedure upon which the protest is based shall be dismissed. Should such a protest reach arbitration and result in a loss, the Vendor will be borne to all costs, including CPC's legal fees. Protests shall include the following:

- 1. Name, address and telephone number of protester;
- 2. Original signature of the protester or its representative;
- 3. Identification of the solicitation by RFP number;
- 4. A detailed statement of legal and factual grounds including copies of relevant documents; and the form of relief requested; and
- 5. Any protest review and action shall be considered final with no further formalities being considered.

Relationship of Parties: No contract agreement resulting from this solicitation shall be considered a contract of employment. The relationship between CPC and the Vendor is one of the independent contractors each free to exercise judgment and discretion concerning the conduct of their respective businesses. The parties do not intend the proposed contract agreement to create or is to be construed as creating a partnership, joint venture, masterservant, principal-agent, or any other relationship. Except as provided elsewhere in this solicitation, neither party may be held liable for acts of omission or commission of the other party and neither party is authorized or has the power to obligate the other party by contract, agreement, warranty, representation or otherwise in any manner whatsoever except as may be expressly provided herein.

Respondent: A respondent has notified CPC of a desire to respond to the proposal and/or has submitted a proposal in response to this solicitation.

Rights and Obligations Upon Termination: Termination of the resulting contract award shall not release the party from the obligation to make payment of all amounts due and payable. Regardless of the cause, the Vendor must refrain from any activity which will create a negative relationship between participating agencies and CPC. Notification of termination to participating agencies shall not be made by the Vendor unless written approval has been received from CPC or its designee. Said approval shall include, but not be limited to, the content of the notice, it's structure and timing. This will remain in effect for 60 days post-termination. When failure is deemed by the other party to be the result of willful and wanton negligence, it may result in a civil action against the first party. The

Vendor will continue to provide warranty and product support as specified in their proposed response to the solicitation or by the manufacturer, whichever is greater, on all services purchased by participating agencies during the contract term. Upon termination, any website references and/or email accounts, created by either the Vendor or CPC and designed to promote the contract agreement resulting from this solicitation shall be terminated within 48 hours of the termination.

Risk of Loss: Regardless of F.O.B., the Vendor agree(s) to bear all risks of loss, injury, or destruction of goods and materials ordered herein which occur before delivery, and such loss or destruction shall not release the Vendor from any obligation hereunder.

Safety Data Sheet (SDS): Documentation providing workers and emergency personnel with procedures for handling or working with a specific substance safely, and information such as physical data, toxicity, health effects, first aid, reactivity, storage, disposal, protective equipment, and spill-handling procedures. SDS documentation must accompany all deliveries when required by federal, state, and local laws.

Sales Tax: Sales and other taxes shall not be included in the prices quoted. The Vendor will charge state and local sales and other taxes on items for which a valid tax exemption certification has not been provided. Each participating agency is responsible for verifying the tax-exempt status to the Vendor. When ordering, participating agencies must indicate that they are tax-exempt entities. Except as set forth herein, no party shall be responsible for taxes imposed on another party as a result of or arising from the transactions contemplated by a Vendor resulting from this solicitation.

Severability: If any of the terms of this solicitation conflict with any rule of law or statutory provision or otherwise unenforceable under the laws or regulations of any government or subdivision thereof, such terms shall be deemed stricken from this agreement, but such invalidity or unenforceability shall not invalidate any of the other terms of this agreement, and this agreement shall continue in force, unless the invalidity or unenforceability of any such provisions hereof does substantial violence to, or where the invalid or unenforceable provisions compromise an integral part of or are otherwise inseparable from, the remainder of the resulting agreement.

Substitutions: The materials, products or equipment described in these documents establish a standard of type, function, and quality to be met by any proposed substitution. Unless the specification prohibits substitution, vendors are encouraged to propose materials, products or equipment of comparable type, function, and quality. Proposals for substitute items shall be stated in the appropriate blank on the proposal form, or if the form does not contain blanks for substitution, on the Vendor's letterhead attached to the pricing form. Vendors shall attach to the form a statement of the manufacturer and brand name of each proposed substitution plus a complete description of the item, including descriptive literature, illustrations, performance, and test data and any other information necessary for evaluation. The burden of proof is upon the respondent for the merit of the proposed substitution.

Termination: CPC reserves the right to terminate this contract, without penalty or recourse, in whole or in part, whereas termination is in the best interest of the participating agencies. The Parties may terminate the Agreement without cause by mutual written consent or by either Party with a minimum of 60 days written notice. The Vendor will not accept any new orders after the termination date specified in the notice. Participating agencies will only be required to pay the Vendor for goods and services delivered before termination and not otherwise returned following the Vendor's return policy. If the participating agency has paid the Vendor for goods and services not yet provided as of the date of termination, the Vendor shall immediately refund such payment(s). Any termination shall not affect projects that are in progress or in receipt of a purchase order (PO) at the time the termination is received. The Vendor shall be entitled to receive just and equitable compensation in accordance with applicable contract pricing for work in progress, work completed, and materials accepted before the effective date of the termination. The Vendor will not be reimbursed for any anticipated profit. CPC reserves the right to cancel, or suspend the use thereof, any contract resulting from this solicitation upon any one of the following events with the Vendor:

- 1. Voluntary or involuntary bankruptcy or insolvency;
- 2. Failure to remedy a material breach to the terms and conditions of this solicitation;
- 3. Receipt of written information from any authorized agency finding activities the Vendor engaged in according to this solicitation to violate the law.

Termination for Default: If either Party is in default under this contract, it shall have an opportunity to cure the default within the time indicated, 10 business days, after it is given written notice of default to the other party, specifying the nature of the default. Upon receipt of the notice of default, the defaulting party shall have 10 business days to provide a satisfactory response. Failure on the part of the defaulting party to adequately address all issues of concern may result in contract termination. If the default is not cured within the time specified in the notice of default, the non-defaulting party shall have the right, in addition to all other remedies at law or equity, to immediately terminate this contract. Failure to complain of any action, non-action or default under this Agreement shall not constitute a waiver of any of the parties' rights hereunder. CPC reserves the right to terminate this contract, or any part hereof, for cause in the event of any default by the Vendor, or if the Vendor fails to comply with any contract terms and conditions or fails to provide adequate assurances of future performance.

In the event of termination for cause, CPC and its participating agencies shall not be liable to the Vendor for any amount of supplies or services not accepted, and the Vendor shall be liable to CPC and its participating agencies for any and all rights and remedies provided by law. If it is determined that CPC improperly terminated this contract for default, such termination shall be deemed a termination for convenience. CPC will issue written notice to the Vendor for acting or failing to act in any of the following:

- 1. The Vendor provides material that does not meet the specifications of the contract;
- 2. The Vendor fails to adequately perform the services set forth in the specifications of the contract;
- 3. The Vendor fails to complete the work required or to furnish the materials required within a reasonable amount of time;
- 4. The Vendor fails to make progress in the performance of the contract and/or gives CPC reason to believe that the Vendor will not or cannot perform to the requirements of the contract;
- 5. The Vendor fails to observe any of the terms and conditions of the contract.

Termination for Non-Appropriation: Any individual participating agency's procurement/contract covered by this solicitation and executed in accordance with the resulting contract may be terminated if insufficient appropriations and/or authorizations do not exist due to changes in state or federal law, or because of a court order, or because of insufficient appropriations made available to the participating agency's governing board and/or it's State Legislature. Such termination will be affected by sending fifteen (15) days written notice to the Vendor. The participating agency's decision as to whether sufficient appropriations and authorizations are available shall be accepted by the Vendor and shall be final.

Tri-State Area: Defined as the three states participating in CPC (Minnesota, North Dakota and South Dakota) and their participating agencies.

Vendor Orientation (CPC 101): The Vendor and their participating resellers/sub-contractors will be required to participate in an online training session that is designed to educate the Vendor and resellers/sub-contractors on the purpose and nature of CPC. The Vendor will not be marketed to participating agencies until they have completed the vendor orientation session.

Waiver: No failure by either party to take any action or assert any right hereunder shall be deemed to be a waiver of such right in the event of the continuation or repetition of the circumstances giving rise to such right.

Revised 05/2023



Vendor Questionnaire RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein is a questionnaire required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the required forms, follow these steps:

- 1. Read the document in its entirety.
- 2. Respondents must use the Vendor Questionnaire to its capacity. Attached exhibits and/or supplemental information should be included only when requested (i.e. Marketing Plan).
- 3. Complete all questions.
- 4. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Questionnaire Name of Company*".
- 5. Submit the Vendor Questionnaire, along with other required documents in Public Purchase.

The following sections will need to be completed before submission and submitted as one (1) single PDF titled "Vendor Questionnaire – Name of Company":

Company Information Qualifications & Experience Warranty Financials & Level of Support Marketing & Partnership Exceptions & Deviations References

Company Information

| Name of Company: | |
|------------------------|--|
| Company Address: | |
| City, State, Zip code: | |
| Website: | |
| | |

Phone:

Provide the following company contacts that will be working with this anticipated contract. Include name, email, and phone number(s).

| | Name | Email | Phone |
|---------------------------------|------|-------|-------|
| General Manager | | | |
| Contract Manager | | | |
| Sales Manager | | | |
| Marketing Manager | | | |
| Customer Service Manager | | | |
| Account Manager(s) | | | |

List who will be responsible for receiving updated participation lists.

| Name | Email | Phone |
|------|-------|-------|
| | | |

List who will be responsible for submitting sales reports and administrative fee payments every quarter.

| Name | Email | Phone |
|------|-------|-------|
| | | |

List who will be responsible for conducting audits as requested by CPC.

| Name | Email | Phone |
|------|-------|-------|
| | | |

Identify any business types/classifications that your company holds. *<u>Submit documentation in PDF format to verify</u> business status (see submittal checklist).

| х | Business Type/Classification | |
|---|------------------------------|------------------------------------------|
| | 8(a) | 8(a) Qualified Business |
| | DBE | Disadvantaged Business Enterprise |
| | HUB | Historically Underutilized Business Zone |
| | MBE | Minority-Owned Business Enterprise |
| | MWBE | Minority Women-Owned Business Enterprise |
| | SBE | Small Business Enterprise |
| | Other; list name: | |

| x | Business Type/Classification | | |
|---|------------------------------|-----------------------------------------|--|
| | SDB | Small Disadvantaged Business | |
| | SDVOB | Service-Disabled Veteran Owned Business | |
| | SECTION 3 | Section 3 Business Concern | |
| | SSV | Sole Source Vendor | |
| | VBE | Veteran-Owned Business Enterprise | |
| | WBE | Woman-Owned Business Enterprise | |
| | | | |

Provide a list of other contracts your organization has in place that could be accessed by our membership for your services (e.g. other consortiums, state agencies) in MN, ND, SD, IA, and WI?

Click or tap here to enter text.

Qualifications & Experience

- **1. Provide a brief background of your organization, including the year it was founded (1-2 paragraphs max.).** Click or tap here to enter text.
- 2. Provide evidence of what your company is doing to remain viable in the lighting industry.

Click or tap here to enter text.

3. Describe your company's logistics (locations, experience, production, distribution of products, warehouse inventories and delivery systems used) that should be considered in your ability to deliver on-time quality services, products, and solutions to participating agencies in MN, ND, SD, IA, and WI.

Click or tap here to enter text.

4. Describe the number of agencies your organization, on average, provides lighting audit services and LED solutions to. Include overall numbers and numbers specific to MN, ND, SD, IA, and WI.

Describe your customer retention as it pertains to lighting audit services and LED solutions (i.e. customers who are served that continue to be repeat customers).

Click or tap here to enter text.

5. Describe and specify your proposed service area (MN, ND, SD, IA, and WI) and how your company intends to meet the needs of customers in that area.

Click or tap here to enter text.

 List the agencies, if any, you would exempt from this contract (i.e. current agencies that you are currently serving that will be exempt from pricing submitted with this proposal).

Click or tap here to enter text.

7. Describe your company's approach to lighting audits, the steps involved in an audit, and applicable LED solutions and what differentiates your company from your competitors. Describe any competitive differences regarding sales, service, installation, technology, and product line(s).

Click or tap here to enter text.

8. Describe how your company works with local utility companies to ensure energy rebates are maximized and how the funding/rebate, if approved, flows through, and applies to the project.

Click or tap here to enter text.

9. Describe your company's approach to proposing available LED solutions to an agency resulting from a lighting audit.

Click or tap here to enter text.

10. Describe any minimum project requirements and if any surcharges will be assessed for not meeting the minimum.

Click or tap here to enter text.

11. Describe how your company ensures that the LED solutions and products offered are current, energy efficient, best-value, and are customizable to agency needs.

Click or tap here to enter text.

12. Describe your company's hierarchy or chain of command from installers to sales to management that will work with this potential contract/program.

Click or tap here to enter text.

13. Describe the process from order placement, including methods, to receipt of order, installation, and final walkthrough (punch-list). Click or tap here to enter text.

14. Describe in detail your return or exchange program/policy(s) for purchases of LED lighting solutions and/or specific products (i.e lamps, fixtures) outside of an audit or applicable project.

Click or tap here to enter text.

15. Provide a narrative of a recent project that totaled at least \$150,000 in lighting audit and LED solutions. The narrative should describe the lighting audit and results, proposed project scope, pricing costs and calculations, any fees, your company's installation/project management, and a final report and rebate summary.

Click or tap here to enter text.

15a. Uploaded as a separate PDF document titled "7 - Project Deliverables" provide the supporting documentation for the project described above in #15. Supporting documentation and deliverables must include the following:

- (i) Lighting audit and results
- (ii) Proposed project scope, pricing costs and calculations, any applicable fees
- (iii) Installation/Project Management plan
- (iv) Final report and rebate summary

16. Describe any "added value" attributes being offered to participating agencies when purchasing services and products through your company. Describe any "value-adds" that are <u>exclusive</u> to the potential contract. Click or tap here to enter text.

Warranty

1. Describe your warranty program, including any conditions and requirements to qualify claims procedure and overall structure.

Click or tap here to enter text.

2. Do all warranties cover all products/equipment parts and labor?

Yes No

If NO, describe the exceptions to coverage.

Click or tap here to enter text.

3. Do warranties cover the expense of a technician's travel time and mileage to perform warranty repairs?

Yes No

If NO, describe why travel and mileage are not covered.

Click or tap here to enter text.

4. List any additional limitations or circumstances that would not be covered under your warranty?

Click or tap here to enter text.

5. List any geographic areas for which your organization cannot provide a certified technician to perform warranty repairs. How will participating agencies in these areas be provided service for warranty repair?

Click or tap here to enter text.

Financials & Level of Support
| 1. | Describe the percentage of your company's revenue, by category (city/county/government, K12 education, |
|----|--------------------------------------------------------------------------------------------------------|
| | higher education) that is derived from lighting audit services and LED sales on an annual basis. |

Click or tap here to enter text.

| 2. | Describe how your company works with agencies to determine payment terms, progress payments, etc. |
|------|---------------------------------------------------------------------------------------------------|
| Clic | ck or tap here to enter text. |

3. Describe your company's allowed methods for payment and if any fees are assessed for those methods. Click or tap here to enter text.

4. Indicate the level of support your company will offer on this contract category.

Pricing is better than what is offered to individual educational agencies.

- Pricing is better than what is offered to cooperative educational agencies.
- Other, please describe

If OTHER, describe how the pricing submitted differs from individual entities or other purchasing consortiums: Click or tap here to enter text.

5. Describe any self-audit process/program you plan to employ to verify compliance with an anticipated contract award.

Click or tap here to enter text.

Marketing & Partnership

1. Describe how your company will position and propose to support CPC and its participating agencies regarding program growth.

Click or tap here to enter text.

2. Describe and submit a marketing plan that would describe, at a minimum, the following: process on how the contract will be launched to current and potential agencies, the ability to produce and maintain full-color print advertisements in camera-ready electronic format, including company logos and contact information, anticipated contract announcements, planned advertisements, industry periodicals, other direct, or indirect marketing activities promoting the awarded contract, and how the contract award will be displayed/linked on your organization's website. You can submit any support materials as Exhibit A – Marketing Plan.

Click or tap here to enter text.

3. Describe how your company will position this contract to CPC's participating agencies if awarded.

Click or tap here to enter text.

4. Describe how you plan to inform and train company personnel on the contract terms and conditions, details, and promotion of the contract. Describe how your organization plans to utilize your marketing and sales staff with this anticipated contract.

Click or tap here to enter text.

Exceptions & Deviations

1. List any additional stipulations and/or requirements your company requests that are not covered in the RFP. Click or tap here to enter text.

2. List any exceptions your company is requesting to the terms outlined in the Technical Specifications. Respondents must include the following when requesting exceptions:

- RFP section number and page number
- Describe the exception
- Explanation of why this is an issue
- A proposed alternative to meet the needs of participating agencies and the cooperative

Click or tap here to enter text.

References

Provide three (3) references that have purchased Lighting Audit and LED Solutions <u>from your company within the last two (2) years</u>. References from the proposed service area are preferred. A contact name, phone number and email will be required. *Note, ensure your references are prepared to communicate with a representative from CPC. <u>Failure to confirm reference of past work may affect your evaluation</u>.

| Reference #1 – Company Name | Click or tap here to enter text. |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Service/Product Purchased | Click or tap here to enter text. |
| Year of Purchase | Click or tap here to enter text. |
| Reference Contact | Click or tap here to enter text. |
| Phone | Click or tap here to enter text. |
| Email | Click or tap here to enter text. |
| | - |
| | |
| Reference #2 – Company Name | Click or tap here to enter text. |
| Reference #2 – Company Name Service/Product Purchased | Click or tap here to enter text. Click or tap here to enter text. |
| Reference #2 – Company Name Service/Product Purchased Year of Purchase | Click or tap here to enter text. Click or tap here to enter text. Click or tap here to enter text. |
| Reference #2 – Company Name Service/Product Purchased Year of Purchase Reference Contact | Click or tap here to enter text. Click or tap here to enter text. Click or tap here to enter text. Click or tap here to enter text. |
| Reference #2 – Company Name Service/Product Purchased Year of Purchase Reference Contact Phone | Click or tap here to enter text. Click or tap here to enter text. |
| Reference #2 – Company Name Service/Product Purchased Year of Purchase Reference Contact Phone Email | Click or tap here to enter text. Click or tap here to enter text. |

Reference #3 – Company Name Service/Purchase Purchased Year of Purchase Reference Contact Phone Email Click or tap here to enter text. Click or tap here to enter text.

Vendor Forms & Signatures RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein are forms and information required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

COOPERATIVE

Purchasing

CONNECTION

To submit the <u>required forms</u>, follow these steps:

- 1. Read the document in its entirety.
- 2. Complete all questions and forms.
- 3. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Forms & Signatures Name of Company*".
- 4. Submit the forms in the required format with all necessary signatures in Public Purchase.

The following sections will need to be completed prior to submission and submitted as one single PDF titled "Vendor Forms & Signatures – Name of Company":

- 1. <u>Contract Offer & Award</u>
- 2. <u>Uniform Guidance "EDGAR" Certification Form</u>
- 3. <u>Subcontractor Utilization Form</u>

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part II will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | Date | |
|-------------------------|------------------|--|
| Address | City, State, Zip | |
| Contact Person | Title | |
| | | |
| Authorized Signature | Title | |
| Email | Phone | |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | | Authorized Signature | |
|----------------|-------------------|-------------------------|--|
| Name | | Title | |
| Awarded this | day of | Contract # | |
| Contract/Agree | ement to Commence | | |

EDGAR Certification Form 2 CRF Part 200

REQUIRED CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS – APPENDIX II TO 2 CFR 200

The following provisions are required and apply when federal funds are expended by participating agencies for any contract resulting from this procurement process.

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Vendor Violation or Breach of Contract Terms

Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. Provisions regarding vendor default and legal remedies are included in Sections I.K.18 and I.K.19 above. Any contract award will be subject to such provisions. The remedies under the contract are in addition to any other remedies that may be available under law or in equity.

(B) Termination for Cause and for Convenience

Pursuant to Federal Rule (B) above when federal funds are expended by participating agencies, the participating agency reserves all rights to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by the Vendor, in the event the vendor fails to" (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. The participating agency reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if the participation agency believes, in its sole discretion that it is in the best interest of the participating agency to do so. The vendor will be compensated for work perform and accepted and goods accepted by the participating agency. Any award made under this procurement process is not exclusive and the participating agency reserves the right to purchase goods and services from other vendors when it is in the best interest of the participating agency.

(C) Equal Employment Opportunity

Except as otherwise provided under 41 CFR Part 60, all participating agency purchases or contract that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR Part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

(D) Davis Bacon Act

When required by Federal program legislation, Vendor agrees that, for all participating agency contracts for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, in excess of \$2,000, Vendor shall comply with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the Vendor is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a

wage determinate made by the Secretary of Labor. In addition, the Vendor shall pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Vendor must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act

Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. The requirements of the 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions that are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies, materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Right to Inventions Made Under a Contract or Agreement

If the participating agency's Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance or experiments, developmental or research work under the "funding agreement," the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act and Federal Water Pollution Control Act

Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Order 12549 and 12689)

A contract award (see 2 CFR 180.222) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), "Debarment and Suspension." SAM exclusions contain the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Vendors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by participating agencies, the vendor certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, the vendor certifies that it is compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be include in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriated tiers and that all subrecipients shall certify and disclose accordingly.

(J) Procurement of Recovered Materials

For participating agency purchases utilizing Federal funds, Vendor agrees to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act where applicable and provide such information and certifications as a participating agency may require to confirm estimates and otherwise comply. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery, and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

(K) Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment

A participating agency is prohibited from obligating or expending funds to:

- (1) Procure or obtain.
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou

Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

- (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
- (iii)Telecommunications or video surveillance equipment or services products or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(L) Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.

For the purpose of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

PROFIT AS A SEPARATE ELEMENT OF PRICE

For purchases using federal funds in excess of \$250,000, a participating agency may be required to negotiate profit as a separate element of the price. See 2 CFRR 200.323(b). When required by a participating agency, the vendor agrees to provide information and negotiate with the participating agency regarding profit as a separate element of the price for a particular purchase. However, vendor agrees that the total price, including profit, charged by the vendor to the participating agency shall not exceed the awarded pricing.

RECORD RETENTION REQUIREMENTS FOR CONTRACTS PAID FOR WITH FEDERAL FUNDS – 2 CFR § 200.333

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The vendor further certified that vendor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending maters are closed.

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that the vendor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conversation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18; Pub. L. 94- 163, 89 Stat. 871).

CERTIFICATION OF NON-COLLUSION STATEMENT

Vendor certifies under penalty of perjury that its responsible to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Pursuant to Federal Ruling, when federal funds are expended by participating agencies, the vendor hereby certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, vendor certifies compliance will all provisions, laws, acts, regulations as specifically noted above. The vendor agrees to comply with all federal, state, and local laws, rules, regulations, and ordinances, as applicable.

| Business Name | Authorized Signature | |
|---------------|-----------------------------|--|
| Full Name | Title | |

Subcontractor Utilization Form

Instructions: List all subcontractors to be used during the performance of this contract. Submit additional forms if needed.

| Solicitation Name: | |
|--------------------------------|-----------------------|
| Solicitation Number: | |
| vendor Name: | |
| If a subcontractor will not be | used, check this box: |
| Company Name: | |
| Street Address: | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| Email Address of Contact: | |
| Services to be provided: | |
| | |
| Company Name: | |
| Street Address: | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| Email Address of Contact: | |
| Services to be provided: | |
| | |
| Company Name: | |
| Street Address: | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| Email Address of Contact: | |
| Services to be provided: | |
| | |

| *Please note this workbook has multiple tabs. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nstructions. This spreadsheet contains multiple workbooks/tabs relating to this RFP. Please follow the directions found/listed on each workbook and complete the workbooks as they pertain to your company's offerings. All pages have been formatted to print to one page width, however, you may add idditional lines as needed. Please note, each individual workbook will note if it's a required or optional form. Per the RFP terms and conditions, all vorkbooks listed as optional are considered a value-added attribute. |
| Chis spreadsheet contains the following workbooks/tabs: |
| Lighting Audit Services LED Category Discount LED Lighting Volume Discounts |
| l - Lighting Audit Services - <i>required</i> |
| ubmit pricing for all services your company is offerring to CPC and its participating agencies. |
| 2.1 - LED Category Discount <i>- required, if proposing lighting solutions</i> Submit pricing for all categories of product offered (by catalog, category, and/or by manufacturer) which can include sub-categories (specific lines From manufacturers) and the discount associated with that category. |
| 2.2 - LED Lighting - required, if proposing lighting solutions |
| ubmit pricing for all products and accessories being proposed by your company. |
| - Volume Discounts - optional |
| ubmit all volume discounts if available to CPC and its participating agencies. |
| |

Pricing Schedule Intro

*Please note this workbook has multiple tabs.

Instructions. Complete the tables below for the services your company is offerring. Please note this is an REQUIRED form.

Responding Company's Name:

REQUIRED

| Description | Standard Price & | Discounted Price & | Member | Per Diem Charges | Mileage Charges | Notoc (Commonte | _ |
|---------------------------------------------------------|-----------------------------|-------------------------------|-------------------|------------------------------------------|---------------------------------------|----------------------------------------------------------|----------|
| Description | Rate | Rate | Savings | (daily rate, if any) | (per mile, if any) | NOLES/COMMENDS | |
| , Audit & Assessment (per square foot) | | | 0.00% | | | | |
| iervices | | | 0.00% | | | | |
| Vanagement | | | 0.00% | | | | <u> </u> |
| | | | 0.00% | | | | _ |
| | | | 0.00% | | | | _ |
| | | | 0.00% | | | | |
| lation [Labor] **Prevailing wage projects/install. | ls are subject to <u>hi</u> | <u>gher</u> hourly rates/ | charges. | Prevailing wage ra | ites change by MN c | ounty. Participating agencies are required to notify the | |
| if prevailing wages are required (state/federal funding | g as part or all of t | he project). | | | | | - |
| Description | Standard Price & Rate | Discounted Price & Rate | Member Savings | Per Diem Charges (daily rate. if any) | Mileage Charges (per mile. if anv) | Notes/Comments | _ |
| kate - Regular Hours | | | 0.00% | | | | _ |
| tate - Evening | | | 0.00% | | | | <u> </u> |
| tate - Weekend/Holidays | | | 0.00% | | | | - |
| | | | 0.00% | | | | |
| | | | 0.00% | | | | <u> </u> |
| | | | 0.00% | | | | |
| Services | | | | | | | _ |
| Description | Standard Price & | Discounted Price & | Member | Per Diem Charges | Mileage Charges | Notes/Comments | |
| ulfillment | kate | kate | AUIIVBS | цану гасе, н апу) | рег шие, и апу ј | | |
| | | | 0/00/0 | | | | - |
| | | | 0/00/0 | | | | - |
| | | | 0,000 | | | | - |
| | | | 0.00% | | | | -, |
| | | | 0.00% | | | | _ |
| | | | 0.00% | | | | _ |
| | | | 0.00% | | | | |
| | | | 0.00% | | | | _ |
| | | | 0.00% | | | | |
| | | | 0.00% | | | | _ |
| | | | 0.00% | | | | |
| | | | 0.00% | | | | |

2.1 - LED Category Discount

*Please note this workbook has multiple tabs.

Instructions. Complete the following schedule for all categories of product offered (by catalog, category, and/or by manufacturer) which can include sub-categories (specific lines from manufacturers) and the discount associated with that category. The form should be completed by the standards listed in the Technical Specifications. Additional rows may be added. This is a required form **if proposing lighting solutions**.

| Responding Company's Name: | | |
|----------------------------------------|------------------|---------------|
| | | REQUIRED FORM |
| Catalog/Category/Manufacturer Grouping | Discount Offered | Comments |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| bn |
|----|
| Ĩ |
| |
| 2 |
| |
| D |
| |
| 60 |
| Ē |
| |
| |
| 60 |
| 1 |
| |
| |
| |
| L |
| |
| 2 |

2

*Please note this workbook has multiple tabs.

Instructions. Complete the following schedule for all products and accessories being proposed by your company. The form should be completed by the standards listed in the Technical Specifications. Additional rows may be added. This is a required form if proposing lighting solutions.

Responding Company's Name:

REQUIRED FORM & FIELDS

| | | _ | | | | _ | _ | _ | _ | _ | | _ | | _ | | | | _ | _ | | | | | | _ | _ | | | | | | | | | _ | _ | _ | | | |
|------------------------|------|---|---|---|---|---|--------|--------|---------|---------|---|---|---|---|---|---|---|---|---------|---------|---|---|---|------|---|---|--------|---------|---------|---|---------|---|---|---|---------|------|---|--------|----------|---|
| Notes/Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Net Price To Member | - \$ | • | • | • | • | • | ۰ ج | ۰ ج | ۰ \$ | ۰ \$ | • | • | • | • | • | • | • | • | ' \$ | ۰ \$ | • | • | • | - \$ | • | • | ۔ ج | ۰ \$ | ۰ \$ | • | ۰ \$ | • | • | • | ۔ \$ | - \$ | • | ۰ ۲ | \$ \$ | * |
| Percent Discount | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| List Price (MSRP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit of Measure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vendor SKU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer SKU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product Category | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

5 24.5 - Pricing Schedule

2.2 - LED Lighting

3 - Volume Discounts

*Please note this workbook has multiple tabs.

Instructions. Complete the form below if your company is offering additional discounts for a one time purchase, size of project, or a group of local agencies in a geographic area combining requirements (estimate annual spend). Please note this is an optional form.

Responding Company's Name:

OPTIONAL FORM

| Dollar Amount From | Dollar Amount To | Catalog/Product/Manufacturer | Additional Discount Offered |
|--------------------|------------------|------------------------------|-----------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Public | Purchase

| Chat 두 🛛 Help 🛛 Logout | Hom | ne New I | Bid | Closed Bids | My Stuff | Tools |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------|----------------------------------|-----------------------------|----------------|
| | Questions for Bid RFP #24.5 - Lighting A | udit Se | ervi | ces & LE | D Solut | ions |
| | | | | | | de la |
| | Question #1 | | | | | 68 😁 |
| | We are currently licensed for installation in all states mentioned in the solicitation except for North Dakota. Please advise if this technicality excludes us from being able to submit our bid. | Aug 15, 2 By: Voss | 2023 3 Electr | 3:55:28 PM C ric Comapny | CDT - VossLightir | ng1011 |
| | It does not exclude you from submitting a proposal. See 3 Questionnaire, Qualifications & Experience, question 5. A respondent will need to describe and specify their intended service area (i.e. states, regions, specific geographical locations). | Aug 15, 2 By: Itrua | 2023 4 x | 4:27:21 PM C | DT | |
| | If proposing to do work in said area and licensure/registration is required, the Vendor must be registered/licensed to do so. | | | | | |
| | Answer | | | | | |
| | | | | | | |
| | Question #2 | | | | | 66 😚 |
| | Subcontractor installers are often used for the LED solution insta The subcontractors are usually determined based on the location project, the relationship with the agency (if applicable) and whe For this initial submittal, is it okay to leave the Subcontractor ut form empty, then just submit our subcontractors to the CPC on project when it sells? | allations. n of the n it sells. ilization each | Aug 2 By: ⊤ | 25, 2023 11:2 The Retrofit Co | 26:11 AM CE ompanies - I | DT Retrofit |
| | A Vendor may make an exception or deviation to the requirement However, it must include a plan to meet the requirement when e subcontractor is hired by the Vendor. | nt. each Archive | Aug 2 By: It | 28, 2023 12:5 truax | 59:15 PM CE | т |
| | Answer | Reject | | | | |
| | Question #3 | | | | | 68 8 |
| | We always provide Free LED lighting audits and build the required report sharing energy savings, maintenance savings, incentives, ROI return and much more for our clients. Can we enter \$0 for the costs for Lighting Audit & Assessment (per square foot), Design Services, and Project Management? | | | | | |
| | Answers | | | | | |
| | A responding Vendor may choose not to charge for their audit at and other services when presented as a complete turnkey soluti should consider the possibility of a participating agency only wa audit conducted. A Vendor could waive the fee if the agency sele forward with the final project. | nd assessm on. A Vend nting a ligh ects and mo | ient or iting oves | Aug 30, 202 By: Itruax | 3 8:42:14 <i>F</i> | M CDT |
| | Per the RFP: IV. Technical Specification, A. General, 1. The Vend lighting audit services, LED solutions, and equipment, or a comb when requested by participating agencies. | or must probination of l | ovide both chive | | | |
| | Answer | R | eject | | | |
| | Ask a Question View Bid | | | | | |

Customer Support: agencysupport@publicpurchase.com | Copyright 1999-2023 © | The Public Group, LLC. All rights reserved.



Lisa M Truax:

The bid RFP #24.5 - Lighting Audit Services & LED Solutions has closed on Sep 7, 2023 10:00:00 AM CDT

To see more details on this bid go to

http://www.publicpurchase.com/gems/bid/bidView?bidId=176590

Thank you for using Public Purchase.

MK= JnhxYGog5yOr9CEd6iPmWg==

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

| Notifications Report | |
|----------------------|-----------------------------------------|
| Agency | Cooperative Purchasing Connection |
| Bid Number | 176590 |
| Bid Title | Lighting Audit Services & LED Solutions |

| Vendor Name | State | Invitation | Date | Email | Reason |
|---------------------------------------|-------|----------------|----------------------|------------------------------------------------|------------------|
| | | | | | |
| 9 TO 5 COMPUTER SUPPLY DIST., INC. | FL | Classification | 2023-08-14 09:50:14 | richardraab@9to5computer.com | Bid Notification |
| Accord Electric, Inc. | MN | Classification | 2023-08-14 09:50:14 | info@accordelectric.net | Bid Notification |
| Ask IT Consulting Inc. | NY | Self Invited | 2023-08-15 15:27:21 | stevewalse85@gmail.com | Bid Answer |
| Ask IT Consulting Inc. | NY | Self Invited | 2023-08-28 11:59:16 | stevewalse85@gmail.com | Bid Answer |
| Ask IT Consulting Inc. | NY | Self Invited | 2023-08-30 07:42:14 | stevewalse85@gmail.com | Bid Answer |
| Berners-Schober | WI | Classification | 2023-08-14 09:50:14 | jjuliot@bsagb.com | Bid Notification |
| Black & McDonald | MO | Classification | 2023-08-14 09:50:14 | gphilipps@blackandmcdonald.com | Bid Notification |
| Design Electric, Inc | MN | Classification | 2023-08-14 09:50:14 | rcostello@designelect.com | Bid Notification |
| E&I Global Energy Services, Inc | MN | Classification | 2023-08-14 09:50:14 | rhanson@ei-ges.com | Bid Notification |
| EAPC Architects Engineers | ND | Classification | 2023-08-14 09:50:14 | lori.bakken@eapc.net | Bid Notification |
| Efficiency Integrated Solutions, Inc. | GA | Classification | 2023-09-07 07:35:48 | eperez-young@energyintegratedsolutions.com | Bid Notification |
| eTech LED | WI | Classification | 2023-08-14 09:50:14 | reverhart@etechled.com | Bid Notification |
| Fastenal Company | MN | Classification | 2023-08-14 09:50:14 | govbids@fastenal.com | Bid Notification |
| Fastenal Company | MN | Classification | 2023-08-14 09:50:14 | govsales@fastenal.com | Bid Notification |
| GenPro Energy Solutions | SD | Classification | 2023-08-14 09:50:14 | jon.holsworth@genproenergy.com | Bid Notification |
| Global Equipment Company, Inc. | GA | Classification | 2023-08-14 09:50:14 | bgarrett@globalindustrial.com | Bid Notification |
| Graybar Electric | MO | Self Invited | 2023-08-28 11:59:16 | andrew.fleming@graybar.com | Bid Answer |
| Graybar Electric | MO | Self Invited | 2023-08-30 07:42:14 | andrew.fleming@graybar.com | Bid Answer |
| Graybar Electric Co. | MN | Classification | 2023-08-14 09:50:14 | david.stien@graybar.com | Bid Notification |
| Green Lighitng Company | NE | Classification | 2023-08-14 09:50:14 | jongreen@gmail.com | Bid Notification |
| HD SUPPLY FACILITIES MAINTENANCE, | | | | | |
| LTD. | CA | Classification | 2023-08-14 09:50:14 | HDS-FMBIDS@HDSUPPLY.COM | Bid Notification |
| HiMEC, Inc. | MN | Classification | 2023-08-14 09:50:14 | himecestimating@hmcc.com | Bid Notification |
| INF Associates | NY | Classification | 2023-09-06 18:50:07 | steven@infassociates.com | Bid Notification |
| IronMan Engineering LLC | MN | Classification | 2023-08-14 09:50:14 | IMEngineeringLLC@gmail.com | Bid Notification |
| J H LARSON ELECTRICAL COMPANY | MN | Classification | 2023-08-14 09:50:14 | janemo@jhlarson.com | Bid Notification |
| L&L Supplies | ТΧ | Self Invited | 2023-08-15 15:27:21 | swalker8585@gmail.com | Bid Answer |
| L&L Supplies | ΤX | Self Invited | 2023-08-28 11:59:16 | swalker8585@gmail.com | Bid Answer |
| L&L Supplies | ΤX | Self Invited | 2023-08-30 07:42:14 | swalker8585@gmail.com | Bid Answer |
| LED Supply CO | WI | Classification | 2023-08-14 09:50:14 | Tony@ledsupplyco.com | Bid Notification |
| LTL LED LLC | MN | Classification | 2023-08-14 09:50:14 | contact@wolfriverelectric.com | Bid Notification |
| Mad Dash, Inc. | IL | Classification | 2023-08-14 09:50:14 | sales@maddash.com | Bid Notification |
| Metropolitan Mechanical Contractors | | | | | |
| Inc | MN | Classification | 2023-08-14 09:50:14 | Bradley.Friedrich@metromech.us | Bid Notification |
| NCLED | WI | Classification | 2023-08-30 07:42:14 | dale@ncledlighting.com | Bid Answer |
| NCLED | WI | Classification | 2023-09-05 13:08:50 | dale@ncledlighting.com | Bid Notification |
| Neptun Light, Inc. | IL | Classification | 2023-08-14 09:50:14 | robert@neptunlight.com | Bid Notification |
| NetZero USA Holdings Inc | GA | Self Invited | 2023-08-15 15:27:21 | amanda@netzero-usa.com | Bid Answer |
| NetZero USA Holdings Inc | GA | Self Invited | 2023-08-28 11:59:16 | amanda@netzero-usa.com | Bid Answer |
| NetZero USA Holdings Inc | GA | Self Invited | 2023-08-30 07:42:14 | amanda@netzero-usa.com | Bid Answer |
| Nietz Electric | MN | Classification | 2023-08-14 09:50:14 | ajl@nietzco.com | Bid Notification |
| OmniPro LLC | CA | Self Invited | 2023-08-30 07:42:14 | ranjan@omniprollc.com | Bid Answer |
| Preferred Sales Agency | MN | Classification | 2023-08-14 09:50:14 | jnorton@preferred-sales.com | Bid Notification |
| Premier Lighting, Inc. | MN | Classification | 2023-08-14 09:50:14 | | Bid Notification |
| Premier Lighting, Inc. | MN | Classification | 2023-08-15 15:27:21 | ANGIE@PREMIERLIG.COM | Bid Answer |
| Premier Lighting, Inc. | MN | Classification | 2023-08-28 11:59:16 | | Bid Answer |
| Premier Lighting, Inc. | MN | Classification | 2023-08-30 07:42:14 | ANGIE@PREMIERLIG.COM | Bid Answer |
| RazrLites | VA | Classification | 2023-08-14 09:50:14 | Info@wnywastepower.com | Bid Notification |
| Renew Energy | SD | Classification | 2023-08-14 09:50:14 | neny@renewenergy.com | BIG NOTIFICATION |
| | | | | hannah.u@royalimagingsolutions.com,ermina@ | |
| | | | | royalimagingsolutions.com,cnarlene@royalimag | |
| | | | 2022 00 14 02 50 1 5 | ingsolutions.com,arish@royalimagingsolutions.c | |
| Royal Media Network | | Classification | 2023-08-14 09:50:14 | | Bid Notification |
| kyan Electric Inc | MN | Classification | 2023-08-14 09:50:14 | ryanelec@ryanelectricinc.com | BID Notification |
| Schreder Lighting | | Classification | 2023-08-14 09:50:14 | a.aoormann@schreder.com | Bid Notification |
| | | Classification | 2023-08-14 09:50:14 | | BID NOTIFICATION |
| Solus LED | | Classification | 2023-08-14 09:50:14 | jim@solusied-usa.com | Bid Notification |
| SOIUS LED | MN | Classification | 2023-08-15 15:27:21 | jim@solusied-usa.com | Bid Answer |

| Solus LED | MN | Classification | 2023-08-28 11:59:16 | jim@solusled-usa.com | Bid Answer |
|---------------------------------------|----|----------------|---------------------|----------------------------------------|------------------|
| Solus LED | MN | Classification | 2023-08-30 07:42:14 | jim@solusled-usa.com | Bid Answer |
| Specialty Bulb Co Inc | NY | Classification | 2023-08-14 09:50:14 | luann@bulbspecialists.com | Bid Notification |
| The Clark Enersen Partners | MO | Classification | 2023-08-14 09:50:14 | marketing@clarkenersen.com | Bid Notification |
| The Retrofit Companies | MN | Self Invited | 2023-08-15 15:27:21 | jandrist@retrofitcompanies.com | Bid Answer |
| The Retrofit Companies | MN | Self Invited | 2023-08-28 11:59:15 | jandrist@retrofitcompanies.com | Bid Answer |
| The Retrofit Companies | MN | Self Invited | 2023-08-30 07:42:14 | jandrist@retrofitcompanies.com | Bid Answer |
| Thunderbird Electric Supply | MO | Classification | 2023-08-14 09:50:14 | robert@thunderbirdelectric.net | Bid Notification |
| Trans-Lux | NY | Self Invited | 2023-08-28 11:59:16 | jmclean@trans-lux.com | Bid Answer |
| Trans-Lux | NY | Self Invited | 2023-08-30 07:42:14 | jmclean@trans-lux.com | Bid Answer |
| Unleashing Effective Products.com LLC | | | | | |
| dba Mallory Energy Inc. | MO | Classification | 2023-08-14 09:50:14 | Paul@MalloryEnergy.com | Bid Notification |
| Voss Electric Comapny | NE | Classification | 2023-08-14 09:50:14 | 10bids@vosslighting.com | Bid Notification |
| Voss Electric Comapny | NE | Classification | 2023-08-15 15:27:21 | 10bids@vosslighting.com | Bid Answer |
| Voss Electric Comapny | NE | Classification | 2023-08-28 11:59:16 | 10bids@vosslighting.com | Bid Answer |
| Voss Electric Comapny | NE | Classification | 2023-08-30 07:42:14 | 10bids@vosslighting.com | Bid Answer |
| Voss Electric Company | NE | Classification | 2023-08-14 09:50:14 | richard.barber@vosslighting.com | Bid Notification |
| Voss Electric Company | NE | Classification | 2023-08-15 15:27:21 | richard.barber@vosslighting.com | Bid Answer |
| Voss Electric Company | NE | Classification | 2023-08-28 11:59:16 | richard.barber@vosslighting.com | Bid Answer |
| Voss Electric Company | NE | Classification | 2023-08-30 07:42:14 | richard.barber@vosslighting.com | Bid Answer |
| Warehouse-Lighting Com LLC | WI | Classification | 2023-08-14 09:50:14 | sphillips@warehouse-lighting.com | Bid Notification |
| WESCO Distribution Inc. | ND | Classification | 2023-08-14 09:50:14 | cmacynski@wesco.com | Bid Notification |
| WESCO Distribution Inc. | ND | Classification | 2023-08-15 15:27:21 | cmacynski@wesco.com | Bid Answer |
| WESCO Distribution Inc. | ND | Classification | 2023-08-28 11:59:16 | cmacynski@wesco.com | Bid Answer |
| WESCO Distribution Inc. | ND | Classification | 2023-08-30 07:42:14 | cmacynski@wesco.com | Bid Answer |
| West Plains Engineering, Inc. | SD | Classification | 2023-08-14 09:50:14 | mike.sigman@westplainsengineering.com | Bid Notification |
| Whole Energy and Hardware Inc | MN | Classification | 2023-08-14 09:50:14 | rick.parris@wholeenergyandhardware.com | Bid Notification |
| Widseth Smith Nolting & Associates, | | | | | |
| Inc. | MN | Classification | 2023-08-14 09:50:14 | rochester@widseth.com | Bid Notification |

Access ReportAgencyCooperative Purchasing ConnectionBid Number24.5Bid TitleLighting Audit Services & LED Solutions

| | | | | Most Recent |
|----------------------------------|---------------------------|---------------------------|------------------------------------------------------|-------------------------|
| Vendor Name | Accessed First Time | Most Recent Access | Documents | Response Date |
| School Wholesale Supplies LLC | 2023-08-17 12:12 AM CDT | 2023-08-17 05:45 AM CDT | | |
| Trans-Lux | 2023-08-17 11:25 AM CDT | 2023-08-30 09:16 AM CDT | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| Solus LED | 2023-08-14 01:20 PM CDT | 2023-08-14 01:20 PM CDT | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| ELITE TEXTILE TRADING LLC | 2023-08-15 05:37 AM CDT | 2023-09-07 05:34 AM CDT | | |
| L&L Supplies | 2023-08-14 09:04 PM CDT | 2023-08-14 09:05 PM CDT | 5 24.5 - Pricing Schedule.xlsx | |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| The Bid Lab | 2023-08-14 09:21 PM CDT | 2023-09-07 02:02 AM CDT | | |
| WESCO Distribution Inc. | 2023-08-14 10:57 AM CDT | 2023-08-14 10:58 AM CDT | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| Voss Electric Company | 2023-08-14 11:24 AM CDT | 2023-08-17 02:01 PM CDT | 5 24.5 - Pricing Schedule.xlsx | |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| The Retrofit Companies | 2023-08-14 07:37 PM CDT | 2023-09-07 01:08 PM CDT | 5 24.5 - Pricing Schedule.xlsx | 2023-09-06 02:47 PM CDT |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| Premier Lighting, Inc. | 2023-08-14 10:50 AM CDT | 2023-09-05 11:46 AM CDT | 2 24.5 - General Terms and Conditions.pdf | 2023-09-05 11:46 AM CDT |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| | | | 5 24.5 - Pricing Schedule.xisx | |
| Efficiency Integrated Solutions, | 2023-09-07 07:43 AM CD1 | 2023-09-07 11:29 AM CDT | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | 2023-09-07 08:53 AM CD1 |
| Inc. | | | | |
| Ask IT Consulting Inc. | 2023-08-14 11:31 PM CDT | 2023-08-15 05:45 AM CDT | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 5 24.5 - Pricing Schedule.xlsx | |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.put | |
| Unvia Matropolitan Machanical | 2023-09-06 08:43 PM CDT | 2023-09-06 08:43 PM CDT | | |
| | 2025-06-15 07.19 AIVI CD1 | 2025-06-15 07:19 AIVI CD1 | | |
| Dodge Data & Analytics | 2023-08-14 10:55 PM CDT | 2023-09-06 10·59 PM CDT | | |
| Climate Survival Solutions | 2023-08-18 01:15 AM CDT | 2023-08-18 06:14 AM CDT | | |
| OmniPro LLC | 2023-08-29 01:49 PM CDT | 2023-08-29 02:00 PM CDT | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| Graybar Electric | 2023-08-17 02:14 PM CDT | 2023-08-30 09:16 AM CDT | 2 24.5 - General Terms and Conditions.pdf | |
| , | | | 5 24.5 - Pricing Schedule.xlsx | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| EV Charging Pod LLC | 2023-08-30 09:37 AM CDT | 2023-09-06 10:26 PM CDT | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 5 24.5 - Pricing Schedule.xlsx | |
| INF Associates | 2023-09-06 06:44 PM CDT | 2023-09-07 09:31 AM CDT | 5 24.5 - Pricing Schedule.xlsx | 2023-09-07 09:30 AM CDT |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| Voss Electric Comapny | 2023-08-15 03:49 PM CDT | 2023-09-06 03:51 PM CDT | 5 24.5 - Pricing Schedule.xlsx | 2023-09-06 03:51 PM CDT |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |
| ivetZero USA Holdings Inc | 2023-08-14 12:33 PM CDT | 2023-08-21 10:54 AM CDT | 5 24.5 - Pricing Schedule.XIsx | |
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| HTS Technologies LLC | | | 1 24.5 - LIGHLING AUGIL SERVICES & LED SOLUTIONS.pdf | |
| TTS TECHNOLOGIES ELC | 2023-03-02 08:30 PIVI CD1 | 2023-03-02 08:30 PIVI CD1 | l | l |

| NCLED | 2023-08-29 12:51 PM CDT | 2023-09-07 10:27 AM CDT | 5 24.5 - Pricing Schedule.xlsx 2023-09-07 08:55 | AM CDT |
|-------|-------------------------|-------------------------|------------------------------------------------------|--------|
| | | | 4 24.5 - Vendor Forms & Signatures.pdf | |
| | | | 3 24.5 - Vendor Questionnaire.docx | |
| | | | 2 24.5 - General Terms and Conditions.pdf | |
| | | | 1 24.5 - Lighting Audit Services & LED Solutions.pdf | |

Opening Record

24.5 - Lighting Audit Services & LED Solutions

Request for Proposal

DocuSigned by:

lisa Truazo

Lisa Truax, Procurement Coordinator

September 7, 2023

Date

—DocuSigned by: Lori Mittustadt —48D2E03F59EF456...

Lori Mittelstadt, CPC Program Assistant

| Company Responding | Efficiency Integrated | INF Associates | NCLED LLC | Premier Lighting Inc. | The Retrofit Companies, | Voss Electric Company |
|--------------------------------------------|--------------------------|----------------|------------------|--------------------------|----------------------------|--------------------------|
| | Solutions Inc. | | | | Inc. | |
| 3 Questionnaire | Yes | Yes | Yes | Yes | Yes | Yes |
| Yes/No | | | | | | |
| 4 Forms & Signatures | Yes | Yes | Yes | Yes | Yes | Yes |
| Yes/No | | | | | | |
| 5 Pricing Schedule | Yes | Yes | Yes | Yes | Yes | Yes |
| Yes/No | | | | | | |
| 6 Certificate of Insurance (COI) | Yes | Yes | Yes | Yes | Yes | Yes |
| Yes/No | | | | | | |
| 7 Project Deliverables | Yes | No | Yes | Yes | Yes | Yes |
| Yes/No | | | | | | |
| Additional Information | | | | | | |
| Business Type Certificate (if applicable) | | | | | Yes - WBENC | |
| Yes/No | | | | | | |
| Catalogs (optional) | Yes | | | | | |
| Yes/No | | | | | | |
| Other | Mktg. Plan | | Articles of Org. | Mktg. Plan | Mktg. Plan | |
| | | | | | | |
| Minimum Qualifications [Pass/Fail] | | | | | | |
| Required documentation [submittal] | | | | | | |
| • Knowledge, background, and at least five | | | | | | |
| (5) years' experience | Pass | Fail | Pass | Pass | Pass | Pass |
| Debarment and suspension verification | | | | | | |
| *State and Federal | | | | | | |
| Qualified (Responsive) Respondent | Yes | No | Yes | Yes | Yes | Yes |
| Yes/No | | | | | | |

10:00 a.m. CT

Time

DocuSign

Certificate Of Completion

Envelope Id: D2BDF2A303194EB9B68876042E0EC642 Subject: Complete with DocuSign: 9 24.5 - Opening Record.pdf Source Envelope: Document Pages: 1 Signatures: 2 Certificate Pages: 2 Initials: 0 AutoNav: Enabled Envelopeld Stamping: Enabled Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Record Tracking

Status: Original 9/7/2023 11:43:45 AM

Signer Events

Lisa Truax Itruax@lcsc.org Cooperative Purchasing Connection Security Level: Email, Account Authentication (None)

Electronic Record and Signature Disclosure: Not Offered via DocuSign

Lori Mittelstadt

Imittelstadt@lcsc.org

Cooperative Purchasing Program Assistant Lakes Country Service Cooperative Security Level: Email, Account Authentication (None)

Electronic Record and Signature Disclosure: Not Offered via DocuSign Holder: Lisa Truax Itruax@lcsc.org

Signature DocuSigned by: Usa Truazo 9ABBC88EB0B9422...

Signature Adoption: Pre-selected Style Using IP Address: 158.222.88.34



Signature Adoption: Pre-selected Style Using IP Address: 158.222.88.34

Status: Completed

Envelope Originator: Lisa Truax 1001 E. Mount Faith Avenue nil Fergus Falls, MN 56537 Itruax@lcsc.org IP Address: 158.222.88.34

Location: DocuSign

Timestamp

Sent: 9/7/2023 11:44:28 AM Viewed: 9/7/2023 11:48:18 AM Signed: 9/7/2023 11:48:21 AM

Sent: 9/7/2023 11:44:28 AM Viewed: 9/7/2023 11:46:41 AM Signed: 9/7/2023 11:47:04 AM

| In Person Signer Events | Signature | limestamp |
|------------------------------|------------------|----------------------|
| Editor Delivery Events | Status | Timestamp |
| Agent Delivery Events | Status | Timestamp |
| Intermediary Delivery Events | Status | Timestamp |
| Certified Delivery Events | Status | Timestamp |
| Carbon Copy Events | Status | Timestamp |
| Witness Events | Signature | Timestamp |
| Notary Events | Signature | Timestamp |
| Envelope Summary Events | Status | Timestamps |
| Envelope Sent | Hashed/Encrypted | 9/7/2023 11:44:28 AM |
| Certified Delivered | Security Checked | 9/7/2023 11:46:41 AM |

| Envelope Summary Events | Status | Timestamps |
|-------------------------------|--------------------------------------|----------------------------------------------|
| Signing Complete Completed | Security Checked Security Checked | 9/7/2023 11:47:04 AM 9/7/2023 11:48:21 AM |
| Payment Events | Status | Timestamps |

 From:
 Lisa Truax

 To:
 steven@infassociates.com; amikszewski@infassociates.com

 Cc:
 Lisa Truax

 Subject:
 RFP 24.5 - Notification - INF Associates

 Date:
 Friday, September 15, 2023 3:21:30 PM

 Attachments:
 image002.png image003.png



Thank you for your response to RFP #24.5 – Lighting Audit Services & LED Solutions. Responses were opened on September 7, 2023, and reviewed for required documents, forms, and signatures according to the solicitation checklist.

We are sorry to tell you that your response was deemed non-responsive and incomplete due to missing or incorrect, required documents.

7 Project Deliverables

• Not submitted

We appreciate your interest in responding to the solicitation and hope you will consider responding to this or similar opportunities in the future.

With Regard,

Lisa Truax



Lisa M. Truax Procurement Solutions Coordinator 218.737.6535 (direct) | 888.739.3289 www.purchasingconnection.org



Minnesota Office of State Procurement printed logo

Suspended/Debarred Vendor Detailed Information

<u>Minnesota Rules Part 1230.1150, Subpart 6 (https://www.revisor.mn.gov/rules/1230.1150/)</u> requires the Office of State Procurement to maintain a master list of all suspensions and debarments. The master list must retain all information concerning suspensions and debarments as a public record for at least three years following the end of a suspension or debarment.

The vendors listed below may be currently suspended or debarred, or have a suspension or debarment end date within the past three years. Click the vendor name for complete details.

NOTE: Minnesota Rules Part 1230.1150, Subpart 2, Item B, Subitem (1)

(<u>https://www.revisor.mn.gov/rules/1230.1150/</u>) also provides that: "Any vendor debarred by the federal government, the state of Minnesota, or any of its departments, commissions, agencies, or political subdivisions, is automatically debarred by the division under the same terms and limits of the original debarment."

See vendors debarred by federal government agencies (https://sam.gov/content/exclusions).

Results 1 - 8 of 8 <u>5Way Contractors Inc</u> <u>Garson Group</u> <u>Green Nature-Cycle, LLC.</u> <u>Hunt's Carpet Service, Inc.</u> <u>Krampitz Trucking</u> <u>Snowmen Inc.</u> <u>The Travel Group LLC</u> <u>Treasure Enterprise, Inc.</u> Home / Doing Business with the State / Procurement / Suspended and Debarred Bidders

Suspended and Debarred Bidders

The OMB State Procurement Office maintains the State Bidders List of vendors who have applied to receive notice solicitations for commodities and services. Under state procurement rules, vendors may be subject to suspension or debarment from the Bidders List for cause. NDAC 4-12-05 contains the rules that pertain to suspension or debarment from the Bidders List. Contact the State Procurement Office at 701.328.2740 with questions.

There are currently NO suspended or debarred vendors.

Federal Suspended and Debarred Vendors

Many state agencies and institutions cannot do business with vendors that have been suspended or debarred by the Federal government. Many solicitations also evaluate the experience and qualifications of vendors, including whether or not the vendor has been suspended or debarred. Search the federal list of suspended and debarred vendors.

| From: | Hubbard, Lisa |
|--------------|------------------------------------------|
| To: | Lisa Truax |
| Cc: | Kassner, Dawn |
| Subject: | [External]RE: SD Suspended/Debarred List |
| Date: | Thursday, September 7, 2023 12:50:47 PM |
| Attachments: | image003.png |
| | image004.png |
| | image005.png |

Hello,

The Office of Procurement Management does not currently have any suspended or debarred companies, therefore, there is no list.

Best Regards,

State of FAU OF HUMAN RESOURCES AND ADMINISTRATION

Lisa Hubbard | Assistant Director Office of Procurement Managment 523 East Capitol Ave | Pierre, SD 57501 Lisa.Hubbard@state.sd.us | 605.773.4580 Website: https://boa.sd.gov/

From: Lisa Truax <<u>ltruax@lcsc.org</u>>
Sent: Thursday, September 7, 2023 10:42 AM
To: Kassner, Dawn <<u>Dawn.Kassner@state.sd.us</u>>
Subject: [EXT] SD Suspended/Debarred List

Hi Dawn,

Can you tell me if the State of South Dakota maintains a list of suspended or debarred companies?

Lisa Truax



Lisa M. Truax Procurement Solutions Coordinator 218.737.6535 (direct) | 888.739.3289 www.purchasingconnection.org

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

| Date: | August 04, 2023 |
|-------|--------------------------------------------------------------|
| То: | Region Project Development Chiefs |
| From: | Rielly O'Donnell, P.E. Chief Proposal Management Engineer |

Subject: Debarred, Suspended and Ineligible Contractors

Enclosed is a listing of Debarred, Suspended and Ineligible Contractors. Revisions from list of July 10, 2023

The following have been added to the list of Debarred Contractors:

The following have been added to the list of Suspended Contractors:

The following have been added to the list of Ineligible Contractors:

The following have been removed from the list of Debarred Contractors:

The following have been removed from the list of Suspended Contractors:

The following have been removed from the list of Ineligible Contractors:

List of Debarred, Suspended and Ineligible Contractors Prepared and Issued by Wisconsin Department of Transportation

Ineligible Contractors

| Name of Contractor | Address | Effective Date | Termination Date | Action | Restricted Area | Acting Agency | Cause Code |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------|---------------------|------------|--------------------|------------------|---------------|
| Adam M. Reichert | | | | | | | |
| | Norwalk, OH 44857 | 10/1/2021 | Indefinite | Ineligible | Statewide | FHWA | |
| | | | | | | | |
| Gerald E. Reichert | Norwalk, OH 44857 | 10/1/2021 | Indefinite | Ineligible | Statewide | FHWA | |
| HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD. | NO.555, Qianmo Road, BINJIANG DISTRICT | | | | | | |
| | HANGZHOU, China | 12/13/2019 | Indefinite | Ineligible | Statewide | GSA | |
| HUAWEI DEVICE CO., LTD. | PRODUCTION PLANT -5, NANFANG FACTORY (PHASE I) PROJECT AREA B2, XINCHENG AVE., SONGSHANHU HIGH-TECH | | | | | | |
| | DONGGUAN, CHINA | 2/21/2020 | Indefinite | Ineligible | Statewide | AF | |
| HUAWEI DEVICE USA INC. | 5700 TENNYSON PKWY STE 300 | | | | | | |
| | PLANO, TX 75024 | 2/21/2019 | Indefinite | Ineligible | Statewide | AF | |
| HUAWEI INVESTMENT & HOLDING CO., LTD. | BLDG.1, AREA B, BANTIAN HUAWEI BASE, LONGGANG DIST SHENZHEN, CHINA | 12/13/2019 | Indefinite | Ineligible | Statewide | GSA | |
| HUAWEI TECHNOLOGIES CO., LTD. | BANTIAN HUAWEI BASE, LONGGANG DISTRICT | 2/21/2020 | Indefinite | Ineligible | Statewide | ٨F | |
| | Shenzhen, China | 2/21/2020 | Indennite | Ineligible | Statewide | | |
| HYTERA COMMUNICATIONS CORPORATION LIMITED | HAINENGDA BUILDING, NO.9108, BEIHUAN ROAD, BEI DISTRICT, HIGH-TECH ZONE, NANSHAN DISTRICT NANSHAN D | | | | | | |
| | SHENZHEN, CHINA | 12/13/2019 | Indefinite | Ineligible | Statewide | AF | |
| MENG WANZHOU | | | | | | | |
| | , CHINA | 2/21/2019 | Indefinite | Ineligible | Statewide | AF | |

WisDOT Cause Codes: 1. Failure to pay invoices 2. Payroll problems 3. Lack of business integrity and responsibility 4. By agreement WisDWD Cause Codes: 1. Failure to pay straight time 2. Failure to pay overtime 3. Kickback 4. Payroll records

List of Debarred, Suspended and Ineligible Contractors Prepared and Issued by Wisconsin Department of Transportation

Ineligible Contractors

| Name of Contractor | Address | Effective Date | Termination Date | Action | Restricted Area | Acting Agency | Cause Code |
|----------------------------------------|-----------------------------------------------------------------|-------------------|---------------------|------------|--------------------|------------------|---------------|
| SKYCOM TECH. CO., LIMITED | TSIM SHA TSUI, SU HKG | 2/21/2019 | Indefinite | Ineligible | Statewide | AF | |
| ZHEJIANG DAHUA TECHNOLOGY CO., LTD. | NO.1199, BIN'AN ROAD, BINJIANO DISTRICT HANGZHOU, CHINA | 9 12/13/2019 | Indefinite | Ineligible | Statewide | AF | |
| ZTE Corporation | NO.55, HI-TECH SOUTH ROAD, NANSHAN DISTRICT SHENZHEN, CHN | 12/13/2019 | Indefinite | Ineligible | Statewide | GSA | |

List of Debarred, Suspended and Ineligible Contractors Prepared and Issued by Wisconsin Department of Transportation

Suspended Contractors

| Name of Contractor | Address | Effective Date | Termination Date | Action | Restricted Area | Acting Agency | Cause Code |
|-----------------------------|----------------------------------------------|-------------------|---------------------|-----------|--------------------|------------------|---------------|
| FIGG Bridge Engineers, Inc. | 424 N. Calhoun St | | | | | | |
| | Tallahasse, FL | 7/14/2020 | 7/14/2029 | Suspended | Statewide | FHWA | |
| Joseph Donnelly | N6938 Church Road Johnson Creek, WI 53038 | 1/11/2019 | Indefinite | Suspended | Statewide | FHWA | |
| William Denney Pate | Tallahasse, FL | 7/14/2020 | 7/14/2029 | Suspended | Statewide | | |

Guidelines for Contractors

Debarred or suspended persons or firms may not enter into contracts with the Wisconsin Department of Transportation (WisDOT). WisDOT Contractors may not enter into subcontracts with debarred or suspended persons or firms. These restrictions apply to all WisDOT projects paid for with state funds.

Contractors participating in federally funded WisDOT projects must comply with federal requirements* in transactions with persons or firms who are debarred or suspended. Contractors must certify they will not knowingly enter into any transaction with persons who are debarred or suspended for a covered transaction. The federal requirements do differ from state requirements and would also prohibit contractors from purchasing more than \$24,999 worth of goods and services from debarred or suspended firms or persons.

The federal requirements and WisDOT specifications** require prime contractors to obtain written consent to subcontract any portion of a contract. When seeking consent to subcontract, prime contractors must disclose to WisDOT that the subcontract is to a debarred or suspended person and other relevant facts. Again, WisDOT will not approve subcontracts with any debarred or suspended person or company. Contractors should also consider the following when requesting consent to subcontract on federally funded projects with a debarred or suspended person or firm:

• WisDOT will not enter into any contract with a debarred or suspended firm or person.

• The prime contractor seeking WisDOT consent to sublet with a debarred or suspended firm or person shall disclose that it is seeking consent to contract with a debarred or suspended subcontractor.

• WisDOT will not approve subcontracts, regardless of size, with debarred or suspended firms or persons.

• WisDOT is not responsible for any additional costs because the prime contractor enters into a transaction with a debarred or suspended subcontractor.

• WisDOT has the right to examine all books, records, documents and other data of the contractor and subcontractor relating to any subcontract.

• A debarred or suspended person or firm may sell goods or services for WisDOT projects unless the project is federally funded. If it is federally funded, the sale may not exceed \$24,999 for audit services.

• On federally funded projects, a contractor can receive DBE credit if a debarred or suspended DBE supplies goods or services not exceeding \$24,999.

• No exceptions will be granted.

• Failure to adhere to these restrictions may result in additional penalties.

*49 CFR 29 and Federal Highway Administration 1273.

**Subsection 108.1 of the standard specifications for Highway and Structure Construction.

Note:

Contractors contemplating using an individual or company as a subcontractor on a federally funded project may check the following web sites for further information:

SAM website listed below for an updated list of all federal agency debarments: https://www.sam.gov/data-services/Exclusions/Public%20V2?privacy=Public

SAM.Gov – Debarment & Suspension Verification 9/7/2023 | 11:38 am CT

| Supplier Name | Status | | | | |
|-----------------------------------------|-----------------------------------------------------------------|----------------------------------|-----------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Efficiency Integrated Solutions Inc. | Not Registered with SAM. | | | | |
| INF Associates LLC | Validated as unique and existing, but is not registered in SAM. | | | | |
| | Unique Entity ID XMV2CFJEG4M7 | | | | |
| NCLED, LLC | Not Registered with SAM. | | | | |
| Premier Lighting Inc | Not Registered with SAM. | | | | |
| The Retrofit Companies, Inc | Active Registration with SAM. No Exclusions. | RETROFIT COMPAN | IIES, INC., THE • Ac | ctive Registration | Entity |
| | | Unique Entity ID GSNGLCLA2YX6 | CAGE Code 7VXW6 | Physical Address 2960 Yorkton Blvd Ste B, Little Canada, MN 55117 USA | Expiration Date Dec 27, 2023 Purpose of Registration All Awards |
| | | Retrofit Companie | s, Inc., The • Active | Registration | Entity |
| | | Unique Entity ID NZTLH2T7W685 | CAGE Code 811F9 | Physical Address 1010 Hoffman Dr Ste A, Owatonna, MN 55060 USA | Expiration Date Nov 2, 2023 |
| | | | | | Purpose of Registration All Awards |
| Voss Electric Company | Active Registration with SAM. No Exclusions. | VOSS ELECTRIC CO | Active Registration | C. T | Entity |
| | | Unique Entity ID DCB5M5J72J35 | CAGE Code 6J267 | Physical Address 1601 CUSHMAN DR, LINCOLN, NE 68512 USA | Expiration Date Sep 4, 2024 |
| | | | | | Purpose of Registration All Awards |



Cooperative Purchasing Connection Tabulation Report RFP #24.5 - Lighting Audit Services & LED Solutions Vendor: Efficiency Integrated Solutions, Inc.

General Comments:

| General Attachments: | 3 24.5 - Vendor Questionnaire - Efficiency Integrated Solutions.pdf |
|----------------------|-------------------------------------------------------------------------------|
| | 4 24.5 - Forms - Signatures - Efficiency Integrated Solutions.pdf |
| | 5 24.5 - Pricing Schedule - Efficiency Integrated Solutions.xlsx |
| | 5 - LED Catalog_MetroTech - Efficiency Integrated Solutions.pdf |
| | 6 24.5 - Certificate of Insurance (COI) - Efficiency Integrated Solutions.pdf |
| | 7 24.5 - Project Deliverables Example - Efficiency Integrated Solutions.pdf |
| | EXHIBIT A - MARKETING PLAN - Efficiency Integrated Solutions.pdf |

*Full Price schedule on file with CPC.



Vendor Questionnaire RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein is a questionnaire required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the required forms, follow these steps:

- 1. Read the document in its entirety.
- 2. Respondents must use the Vendor Questionnaire to its capacity. Attached exhibits and/or supplemental information should be included only when requested (i.e. Marketing Plan).
- 3. Complete all questions.
- 4. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Questionnaire Name of Company*".
- 5. Submit the Vendor Questionnaire, along with other required documents in Public Purchase.

The following sections will need to be completed before submission and submitted as one (1) single PDF titled "Vendor Questionnaire – Name of Company":

Company Information Qualifications & Experience Warranty Financials & Level of Support Marketing & Partnership Exceptions & Deviations References
Company Information

| Name of Company: | EFFICIENCY INTEGRATED SOLUTIONS, INC. dba ENERGY INTEGRATED SOLUTIONS |
|------------------------|--------------------------------------------------------------------------|
| Company Addross | 820 DICKENS INDUSTRIAL DR NE-SUUTE 13 |
| Company Address. | 029 HCKENS INDOSTRIAL DR. NE, SUITE 15 |
| City, State, Zip code: | MARIETTA, GA 30062 |
| Website: | www.energyintegratedsolutions.com |
| Phone: | 404-937-6547 |

Provide the following company contacts that will be working with this anticipated contract. Include name, email, and phone number(s).

| | Name | Email | Phone |
|---------------------------------|---------------------|--------------------------------------------|--------------------|
| General Manager | Alex Figueiras | afigueiras@energyintegratedsolutions.com | 404-937-6547 x 701 |
| Contract Manager | David Benavent | contactEIS@energyintegratedsolutions.com | 404-937-6547 |
| Sales Manager | Enrique Perez-Young | eperez-young@energyintegratedsolutions.com | 404-433-9013 |
| Marketing Manager | Enrique Perez-Young | eperez-young@energyintegratedsolutions.com | 404-937-6547 x 721 |
| Customer Service Manager | Michelle Beard | mbeard@energyintegratedsolutions.com | 404-937-6547 x 702 |
| Account Manager(s) | Dale Baeten | dbaeten@energyintegratedsolutions.com | 920-418-0153 |

List who will be responsible for receiving updated participation lists.

| Name | Email | Phone |
|-------------|---------------------------------------|--------------|
| Dale Baeten | dbaeten@energyintegratedsolutions.com | 920-418-0153 |

List who will be responsible for submitting sales reports and administrative fee payments every quarter.

| Name | Email | Phone |
|---------------------|--------------------------------------------|--------------|
| Enrique Perez-Young | eperez-young@energyintegratedsolutions.com | 404-433-9013 |

List who will be responsible for conducting audits as requested by CPC.

| Name | Email | Phone |
|---------------------|--------------------------------------------|--------------|
| Enrique Perez-Young | eperez-young@energyintegratedsolutions.com | 404-433-9013 |

Identify any business types/classifications that your company holds. *<u>Submit documentation in PDF format to verify</u> business status (see submittal checklist).

| х | Business Type/Classification | | |
|---|------------------------------|------------------------------------------|--|
| | 8(a) | 8(a) Qualified Business | |
| | DBE | Disadvantaged Business Enterprise | |
| | HUB | Historically Underutilized Business Zone | |
| | MBE | Minority-Owned Business Enterprise | |
| | MWBE | Minority Women-Owned Business Enterprise | |
| | SBE | Small Business Enterprise | |
| | Other; list name: | | |

| x | Business Type/Classification | | |
|---|------------------------------|-----------------------------------------|--|
| | SDB | Small Disadvantaged Business | |
| | SDVOB | Service-Disabled Veteran Owned Business | |
| | SECTION 3 | Section 3 Business Concern | |
| | SSV | Sole Source Vendor | |
| | VBE | Veteran-Owned Business Enterprise | |
| | WBE | Woman-Owned Business Enterprise | |
| | | | |

Provide a list of other contracts your organization has in place that could be accessed by our membership for your services (e.g. other consortiums, state agencies) in MN, ND, SD, IA, and WI?

1. In the process of applying for MBE Certification. Should have that completed around the end of 2023.

2. Have been a trade ally of multiple state utility programs and have won awards for highest energy savings for industrial and commercial customers multiple times and helped past affiliates do the same.

Qualifications & Experience

1. Provide a brief background of your organization, including the year it was founded (1-2 paragraphs max.).

Efficiency Integrated Solutions, Inc. ("EIS"), based in Atlanta, GA, has been providing energy and operations efficiency solutions to industrial and commercial customers for more than 40 years. In 1978, under the name of Energy Automation Systems, Inc., the company dedicated efforts to designing and installing custom energy conservation systems proven to: reduce electrical energy consumption; improve power quality, power factor and voltage; increase electrical system capacity; reduce unnecessary heat; improve cooling capacity of air conditioning and refrigeration and lengthen lives of motors, lights, air conditioning and refrigeration.

As a natural evolution and the increasing industry awareness of energy efficiencies, operational optimizations, limited resources for production, greenhouse gas emissions, scarcity of water and other globally impacting resource exhaustion, the company has grown to include a full range of best-in-class utility conservation and power quality improvement measures and products addressing all the major resource utilization groups in a typical facility (equipment motors, lighting, HVAC, refrigeration, air compressors, steam, wastewater treatment plants, etc.) with energy efficiency and sustainable solutions as a baseline. This progression is reflected in the change of name to a more comprehensive industry trend identification as *Energy Integrated Solutions, Inc.* in 2016, and to an all-encompassing *Efficiency Integrated Solutions, Inc.* in 2022.

2. Provide evidence of what your company is doing to remain viable in the lighting industry.

EIS commits itself to sourcing the latest generation of proven LED with the appropriate certifications. The new **proven** technologies in the market are always adopted for our solutions and implemented in our projects. For example, in the case of the high bay fixtures we are at a higher efficacy of 190-200 lumens/watt compared to the average USA competitor in the 130 -150 lumens/watt. That equates to ~27%–46% more illumination for the same watts of energy. We are always participating in the Hong Kong light fairs before COVID and post COVID and visiting manufacturers at their plants. Our distribution and OEM agreements are best-in-class and exclusive with the volumes we generate.

3. Describe your company's logistics (locations, experience, production, distribution of products, warehouse inventories and delivery systems used) that should be considered in your ability to deliver on-time quality services, products, and solutions to participating agencies in MN, ND, SD, IA, and WI.

EIS is based in Atlanta GA, but with an LED Lighting warehouse in Pensacola, GA. We have completed thousands of projects around the world, in more than 60 countries for Fortune 500 customers, and for many smaller customers. Currently we are able to perform rollouts for a multi-State industrial customer, a multi-State mining operator and a nationwide restaurant organization. Our clients achieve annual energy savings of 8% to 30% on their utility bills. EIS provides turnkey, fixed price project implementation, guaranteeing savings and investment payback. We also provide ongoing Measurement & Verification services to ensure our solutions deliver the potential energy savings we design and implement.

4. Describe the number of agencies your organization, on average, provides lighting audit services and LED solutions to. Include overall numbers and numbers specific to MN, ND, SD, IA, and WI.

Describe your customer retention as it pertains to lighting audit services and LED solutions (i.e. customers who are served that continue to be repeat customers).

We provide lighting (and other) audit services to facility management software companies like Ecotrak; ESCO type companies like Budderfly; distributors like Wesco and of course end customers with one (Manpower Headquarters) to several locations (RR Donnelly & Sons) to thousands of locations like Inspire Brands. We always start with a very professional, comprehensive, and quality audit service that shows our expertise and builds our customers trust in our capabilities to do the surveys and turnkey projects.

5. Describe and specify your proposed service area (MN, ND, SD, IA, and WI) and how your company intends to meet the needs of customers in that area.

We can support all the five states. We self-perform the audits. For the installations we may collaborate with an "uber-like" national network of electrical contractors that have been working with us for many years. We have standardized processes and project management forms that create consistency on the work while keeping the costs competitive and dealing with the market and workflow fluctuations.

6. List the agencies, if any, you would exempt from this contract (i.e. current agencies that you are currently serving that will be exempt from pricing submitted with this proposal).

None

7. Describe your company's approach to lighting audits, the steps involved in an audit, and applicable LED solutions and what differentiates your company from your competitors. Describe any competitive differences regarding sales, service, installation, technology, and product line(s).

Audit Steps

- 1) Meet with customers to understand: goals, timeframe, how many locations, priorities (savings, safety, timeframe, paybacks, etc.), challenges and contacts.
- 2) Select one or two locations as pilots and schedule another call with the local leadership to determine: date of visit, site manufacturing requirements, personnel availability for the opening and closing meeting and walkthrough, Personal Protective Equipment (PPE) and other safety requirements and expected timeframe a proposal is needed.
- 3) Obtain facility electric bills (ask for 12 prior months) and floor plan.
- 4) Conduct light audit and ask questions throughout visit to validate information from calls and opening meeting. Visit spare / tool room to review spare lamps, ballasts, kits and fixtures to validate information captured during audit.
- 5) Use software (Ecoinsight or Snapcount on occasion) to capture light information by area and spaces within the facility. Intent is to ease the potential pre-installation light inspection utility incentive engineers conduct by breaking down the facility in modules that are easy to confirm.
- 6) Develop, as needed, light layouts of areas of the facility and compare with the footcandle / lux measurements taken during lighting audit. Include information in proposal.
- 7) Conduct meetings with potential solution providers to provide the biggest value LED treatments based on the customer requirements obtained above.
- 8) Develop, organize and present LED proposal with financials (IRR, NPV, ROI, savings, incentives, price); kWh (consumption), kV (demand) and Watts comparisons, terms, proposed light treatments, turnkey estimated schedules, warranties, product specs, financing and other implementation routes.
- 9) Present material to stakeholders. As needed, multiple options / solutions may be presented, but always one is recommended.

Key Differentiators

- 1) We always look for best-in-class products. As mentioned above, we not only go to Hong Kong (and US) light fairs, we also visit the manufacturers and establish a strong relationship. We look for products with high efficacy (lumens/watt) without sacrificing quality and durability
- 2) We have automated the process as much as possible to create consistency. In addition to the software tools that capture the audit and develop key proposal areas, we use checklists, training and documentation to create standardization.
- 3) We have over 40 years in energy savings throughout the globe.
- 4) We have won utility awards
- 5) We use seasoned project managers that have been in the field and support the installers and auditors.

8. Describe how your company works with local utility companies to ensure energy rebates are maximized and how the funding/rebate, if approved, flows through, and applies to the project.

As part of a service, EIS approaches our customers' utility organizations and explores the options and alternatives, designs the appropriate solutions, facilitates the relationship between all the organizations, and applies for the incentives and rebates, on behalf of our customers. In multiple cases EIS, when accepted by both parties, we have performed the job, discounted by the expected dollar-amount of rebates/incentives, and filed the proper documentation to receive the reimbursement directly from the utility, at our own risk.

We have become registered Trade Allies of some utility organizations to ensure we are pre-qualified for them to provide the customer with utility accepted technologies, processes, procedures, installation technics, etc., maximizing the level of incentives they are offering.

As an example, we have been awarded by Entergy Arkansas as the trade ally company that saved the most energy in 2019 and 2020 for large Commercial and Industrial (C&I) customers. Work w/ partners with similar accomplishment for ComEd. These are the best incentive utility programs in the nation right now.

9. Describe your company's approach to proposing available LED solutions to an agency resulting from a lighting audit.

See question (7) above to see how we first start with gathering data from the customer. We generally are summoned by either an influencer on the light project or a decision maker. After capturing their challenges, goals and direction, when we are on site, we talk to the associates who generally are maintaining the lights and/or the facility.

10. Describe any minimum project requirements and if any surcharges will be assessed for not meeting the minimum.

We would prefer a Material Only minimum project Purchase Order (PO) of \$5,000 and a minimum PO for a turnkey project of \$40,000. However, we can adjust when the number of projects is expected to increase and/or after talking to agency and understanding their needs.

11. Describe how your company ensures that the LED solutions and products offered are current, energy efficient, best-value, and are customizable to agency needs.

EIS updates its catalog frequently with the newly proven developments of our manufacturers. Including, at least 5 USA domestic manufacturers and 3 or more Chinese LED designer/manufacturers companies, always focused on the highest efficiency possible, with the durability and reliability of the drivers. Twice a year EIS executives participate in International Lighting Conferences to ensure that our present manufacturers keep themselves current with the best-in-class technologies, verifying the new trends in the market and developing new manufacturing relationship.

We have been able to bring to the USA the highest level of LED efficiency with DLC certifications. Some customers' special specifications of limited quantities of fixtures, requirement of color temperature and CRI, IP or IK have been shared, discussed, re-designed to improve the results they need (e.g. agricultural industries, photo-reactive products industries and data-centers low temperature requirements)

12. Describe your company's hierarchy or chain of command from installers to sales to management that will work with this potential contract/program.

Once the project implementation is launched, installers are in continuous communication with the project manager assigned to the customer to ensure, material on site, correct and quantity of personnel is present to comply with schedules and to solve additional approved customer requests. The project manager keeps an open and consistent communication with the customer authorized representative via formal meetings (e.g., opening, closing) and electronic communications, e.g., weekly email completion reports.

Flow:

Installers - On Site Supervisor - Project Manager - Operations (Supply chain) - Management (if escalation is needed)

13. Describe the process from order placement, including methods, to receipt of order, installation, and final walk-through (punch-list).

- 1. Proposal Approved
- 2. PO issued
 - a. Email
 - b. Downpayment received (if apply)
- 3. List of material sorted by area to be installed, is submitted to customer to final approval
- 4. Pre-installation visit with Site Supervisor
 - a. Includes a re-assurance of voltage per area
 - b. Electric panels allocation
 - c. Approval of lifters and/or scaffolding
 - d. Additional safety issues to be considered
- 5. Material Ordered and Installation Personnel is scheduled and committed to the project
- 6. Material shipped
 - a. Conex or temporary storage is installed to receive material (as/if needed)
- 7. Kick-off meeting
- 8. Installation
 - a. Safety compliance to work on site
 - b. Weekly schedule to ensure all parties know areas to be cleared as needed and worked as expected.
 - c. Soft approval based on a partial walkthrough per area in order to move on to the next one.
 - d. Issue any Change Order as customer requires
 - e. Pre-assessment of finishing installation (one week prior to the final walkthrough)
- 9. Final Walkthrough
 - a. Punch List
 - b. Acceptance of project finished
- 10. Final report
- 14. Describe in detail your return or exchange program/policy(s) for purchases of LED lighting solutions and/or specific products (i.e lamps, fixtures) outside of an audit or applicable project.
 - 1) Customer calls or emails about a specific product issue.

- 2) Technical personnel is assigned to review issues with customers.
- 3) If it appears that issue is with product, a Return Merchandise Authorization (RMA) with a specific code is provided to customer to send defective material
- 4) Generally, a substitute product is sent. On some occasions, the defective product is investigated prior to sending replacement to determine cause for issue or failure. Depending on circumstance, manufacturer will be brought to the conversation.
- 5) Results of analysis is discussed internally, then with customer.
- 15. Provide a narrative of a recent project that totaled at least \$150,000 in lighting audit and LED solutions. The narrative should describe the lighting audit and results, proposed project scope, pricing costs and calculations, any fees, your company's installation/project management, and a final report and rebate summary.

Imerys Performance Minerals Americas at Lompoc, CA contracted EIS services to audit and analyze current lighting installation and to upgrade all lighting at the mining facility to an energy efficient lighting concept, complying with Imerys internal minimum lighting operating standards.

The scope of work performed updated the lighting at Imerys Lompoc, using LED latest technology to minimize electrical usage. Electrical Scope of Work, quantities, locations, and fixture types were assessed by EIS and a suitable lighting arrangement was proposed in order to meet the minimum lighting requirements (Imerys Standard IN-CX-ELE-001 rev.01) with the level of efficiency required by PG&E (the utility organization) in order to maximize the incentives and rebates established for this industrial type of customer. Additionally, Imerys internal lighting was enhanced to reach a CRI of 80 or higher, unless otherwise authorized by the Imerys project manager.

Additional issues found during the audit and discovery process and solved as part of the project implementation:

a. I: During the audit, it became evident that the excessive vibration in some steel structures, caused by adjacent conveyor belts and rock mills, was the source of continued failures in the lighting system since the beginning of the operation of the plant. The customer tried in the past to remedy the problem and explored different options, with no foreseeable solution.

R: EIS, supported by the manufacturers, tested several alternatives, and found a solution with neoprene rings that cushioned the new bulbs into the fixtures and avoided failures. This solution was found sustainable, and it was successfully implemented. It is now part of the fixture/bulb specification in other Imerys plants.

- b. I: As part of the normal operation of the plant, it became a practice/habit running vehicles and roaming people on a narrow corridor between the Silicate WH and the property fence, in order to access the Celpure Plant. Mostly at night, due to null illumination and lack of proper signaling, this long area was the cause of quasi-accidents.
 R: EIS extended installed movement-sensor-controlled area lighting and wall packs in the problematic corridor as an add-on to the SOW of the project, without increasing the energy consumption of the Silicate WH.
- c. I: An important portion of the electric wiring was old and defective due to dry-cracked insulation.
 R: EIS offered its services to remove, dispose and reinstall new wiring, but this aspect was considered out of scope for the budgeted LED Upgrades investment and Imerys decided to do it on their own.
- d. I: Extending the audit to night shifts allows EIS to define improper or poor illumination in some areas. For Imerys Lompoc's case, this exercise made evident that some LED bulbs, previously installed by the customer, in external structures were inappropriately selected when sourced, since it caused a cloudy illumination with only clear vision at less than 1ft from every light source.

R: Due to the quantity of fixtures to be corrected, this portion of the proposal was also removed from the SOW and performed as a correction of a prior internal project by themselves.

EIS, at the request of Imerys, presented three alternative proposals for the customer to decide the level of retrofits that will keep their investment within their budget and corporate acceptable payback. The selected proposal achieved a total investment of \$447,162, which represented annual energy savings of 1,062,347 kWh (\$133,374) and maintenance-material savings of \$11,170 per year; resulting in an investment payback of 3.04 years.

All work was completed according to Imerys safety standards.

EIS guaranteed parts for 10 years and labor for 5 years.

See details in pdf file attached titled "7 24.5 – Project Deliverables Efficiency Integrated Solutions"

15a. Uploaded as a separate PDF document titled "7 - Project Deliverables – Efficiency Integrated Solutions" provide the supporting documentation for the project described above in #15. Supporting documentation and deliverables must include the following:

- (i) Lighting audit and results
- (ii) Proposed project scope, pricing costs and calculations, any applicable fees
- (iii) Installation/Project Management plan
- (iv) Final report and rebate summary

16. Describe any "added value" attributes being offered to participating agencies when purchasing services and products through your company. Describe any "value-adds" that are <u>exclusive</u> to the potential contract.

The value adds are:

- 1) Pricing and volume discounts as expressed in pricing sheets
- 2) Assurance of consistency in audit, design and implementation of process thanks to seasoned employees, documentation and software tools

Warranty

1. Describe your warranty program, including any conditions and requirements to qualify claims procedure and overall structure.

(Please keep in mind that METROTECH is EIS LED Lighting Brand, so it is our Warranty)

METROTECH MEDIA & LIGHTING, INC. LIMITED WARRANTY FOR: SOLID STATE LIGHTING PRODUCTS

MetroTech Media & Lighting, Inc. ("MetroTech") warrants to the original end-user ("Purchaser") of "MetroTech"brand Solid State Lighting Products ("Products"), that at the date of their purchase, "Products" will be free of significant defects in material and workmanship.

10-Year Warranty for Materials and Workmanship

For a period of ten (10) years after the date of purchase, "MetroTech", at its sole option, will, itself, or through others, repair, replace "Product" that "MetroTech" verifies as being defective due to significant material or workmanship defects. The determination of whether the Product is defective shall be made by "MetroTech" in its sole discretion with consideration given to the overall performance of the Product. A Product shall not be considered defective if the number of inoperable components is less than 10% of the total number of LED components in the Product.

What the Warranty Does Not Cover: This warranty does not cover (1) Product advice or assistance that "MetroTech" furnishes as a courtesy, (2) removal or reinstallation of "Products", or (3) defects or damage as a result of accident, modification, misuse (including but not limited to the operation at temperatures above 70°C or voltage levels outside the rated range), improper service or repair, improper facility grounding and system wiring, damage due to improper facility Transient Voltage Surge Suppression (TVSS), abuse or abnormal use including, without limitation, improper storage and incorrect installation. Use with 2 circuit - 3 wire shared neutral wiring installations is not covered. This warranty does not cover damage resulting from acts of nature beyond industry specifications of protection thereof. THIS LIMITED WARRANTY IS VOID IF THE PRODUCT IS NOT USED FOR THE PURPOSE FOR WHICH IT IS DESIGNED.

Conditions of Warranties: It is a condition of these warranties that: (1) the "Purchaser" submit all claims of defect; (2) return of "Product" is accompanied with a bill of sale or other evidence showing the date of purchase and identification of the original "Purchaser"; (3) the "Purchaser" prepay all freight, insurance and other transportation charges to send "Product" to "MetroTech" for warranty-coverage verification, repair or replacement, and; (4) "MetroTech" retains all repaired and replaced parts and "Products".

Warranty Limitations: In no event shall this warranty run to OEM or component-part buyers. All replacement "Products" are warranted only for the remainder of the original warranty of the "Product" replaced. Replacement "Products" will be equivalent in function, but not necessarily identical to, the replaced "Product". Repair or replacement as set forth in these warranties is the sole and exclusive remedy under these warranties or otherwise for "Product" defects. "METROTECH" DISCLAIMS ALL OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION, AND IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Damage Limitations: "METROTECH" IS NOT LIABLE FOR, AND HEREBY DISCLAIMS, ALL DAMAGES CAUSED BY ANY PRODUCT OR THE FAILURE OF A "PRODUCT" TO PERFORM, INCLUDING, WITHOUT LIMITATION, DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFITS OR SAVINGS, UNDER ANY LEGAL THEORY, INCLUDING, WITHOUT LIMITATION, TORT (INCLUDING NEGLIGENCE AND STRICT "PRODUCT" LIABILITY) OR CONTRACT, SUSTAINED BY "PURCHASER" OR BY ANY OTHER PERSON. THIS LIMITATION CANNOT BE WAIVED OR AMENDED BY ANY PERSON AND WILL BE EFFECTIVE EVEN IF "METROTECH" OR ITS REPRESENTATIVE HAS BEEN ADVISED OF, OR MIGHT HAVE ANTICIPATED, THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY MAY NOT APPLY TO DAMAGES RELATING TO PERSONAL INJURY OR DEATH IN JURISDICTIONS WHERE SUCH DAMAGES MAY NOT BE DISCLAIMED AS A MATTER OF LAW.

2. Do all warranties cover all products/equipment parts and labor?

Yes X No

If NO, describe the exceptions to coverage.

Conditions of Warranties: It is a condition of these warranties that: (1) the "Purchaser" submit all claims of defect; (2) return of "Product" is accompanied with a bill of sale or other evidence showing the date of purchase and identification of the original "Purchaser"; (3) the "Purchaser" prepay all freight, insurance and other transportation charges to send "Product" to "MetroTech" for warranty-coverage verification, repair or replacement, and; (4) "MetroTech" retains all repaired and replaced parts and "Products".

Warranty Limitations: In no event shall this warranty run to OEM or component-part buyers. All replacement "Products" are warranted only for the remainder of the original warranty of the "Product" replaced. Replacement "Products" will be equivalent in function, but not necessarily identical to, the replaced "Product". Repair or replacement as set forth in these warranties is the sole and exclusive remedy under these warranties or otherwise for "Product" defects. "METROTECH" DISCLAIMS ALL OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION, AND IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Damage Limitations: "METROTECH" IS NOT LIABLE FOR, AND HEREBY DISCLAIMS, ALL DAMAGES CAUSED BY ANY PRODUCT OR THE FAILURE OF A "PRODUCT" TO PERFORM, INCLUDING, WITHOUT LIMITATION, DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFITS OR SAVINGS, UNDER ANY LEGAL THEORY, INCLUDING, WITHOUT LIMITATION, TORT (INCLUDING NEGLIGENCE AND STRICT "PRODUCT" LIABILITY) OR CONTRACT, SUSTAINED BY "PURCHASER" OR BY ANY OTHER PERSON. THIS LIMITATION CANNOT BE WAIVED OR AMENDED BY ANY PERSON AND WILL BE EFFECTIVE EVEN IF "METROTECH" OR ITS REPRESENTATIVE HAS BEEN ADVISED OF, OR MIGHT HAVE ANTICIPATED, THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY MAY NOT APPLY TO DAMAGES RELATING TO PERSONAL INJURY OR DEATH IN JURISDICTIONS WHERE SUCH DAMAGES MAY NOT BE DISCLAIMED AS A MATTER OF LAW

3. Do warranties cover the expense of a technician's travel time and mileage to perform warranty repairs?

Yes X No

If NO, describe why travel and mileage are not covered.

The labor warranty will cover the service call charges and labor costs for any repairs required to return the unit to service. Since a manufacturer's warranty only covers the parts, the labor warranty basically works to fill in the gaps, but the costs of time and transportation to any site at any place in the country, or in the world for that matter, cannot be incorporated in one single pricing schedule.

4. List any additional limitations or circumstances that would not be covered under your warranty?

Labor reimbursements include straight time labor charges only, and shall not include charges for travel time, mileage, rental of special equipment & tooling or other premium charges.

Labor warranty excludes remedy for damage or defect caused by abuse, modifications or alterations to the original Labor executed by EIS, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage.

This Labor warranty does not include labor coverage for a component failure or other damage resulting from:

- Electrical power supply failure or water deterioration of the product, material, or equipment for any reason.
- Operating the product beyond the specifications set in the datasheet or manual.
- Failure to clean and maintain as set forth in the datasheet or manual.
- Owners modified installations, not in accordance with the product.
- 5. List any geographic areas for which your organization cannot provide a certified technician to perform warranty repairs. How will participating agencies in these areas be provided service for warranty repair?

NA

Financials & Level of Support

1. Describe the percentage of your company's revenue, by category (city/county/government, K12 education, higher education) that is derived from lighting audit services and LED sales on an annual basis.

We can disclose our full financials when the award is granted as needed. Having said that, our LED revenue is about 30% of the overall parent company revenues. Of that amount, we break the revenues in three categories like the utilities do: small commercial, large commercial and industrial. Small commercial is about 40% of the LED revenue, and large commercial and industrial cover about 30% of the LED revenue each.

2. Describe how your company works with agencies to determine payment terms, progress payments, etc.

EIS is very flexible. If the Terms and Conditions are defined from the beginning, EIS will accommodate financial and payments to match the T&C.

EIS can even consider the possibility of financing their services in several modalities (from simple financing time/interest to Energy-as-a-Service)

With that said, if payment terms can be negotiated, as we do with Industrial Customers, we usually separate progress payments in three: (i) a downpayment; (ii) a payment issued against the Bill of Lading; and (iii) a final payment for the remaining contract value.

3. Describe your company's allowed methods for payment and if any fees are assessed for those methods.

- 1. Customers ACH process
- 2. Wire transfers
- 3. Checks by mail

4. Indicate the level of support your company will offer on this contract category.

| | Pricing is better than what is offered to individual educational agencies. |
|---|----------------------------------------------------------------------------|
| | Pricing is better than what is offered to cooperative educational agencies |
| Х | Other, please describe |

If OTHER, describe how the pricing submitted differs from individual entities or other purchasing consortiums:

We will provide the same pricing to the individual educational agencies and to date CPC is receiving the best pricing of the cooperative educational agencies thanks to our brand new volume discounts we have obtained from our key supplier.

5. Describe any self-audit process/program you plan to employ to verify compliance with an anticipated contract award.

The general steps we follow is actually very structured. Once a contract is awarded and after the T&C are discussed with our lawyers. C-levels initiate an exercise and risks are identified, including risks of our customers: so:

- Identify risks:
 - Which compliance issues and risks are of greatest concern?
 - Existence—does a risk exist?
 - Significance—does it matter?

- Materiality—how much does it matter?
- Where is the entity most vulnerable to these risks?
- Prioritizing with Scores
- Audit periodically those risks:
 - Compliance programs contain the following six components:
 - Conducting internal monitoring and auditing;
 - Implementing compliance and practice standards;
 - Designating a compliance officer or contact;
 - Responding appropriately to detected offenses and developing corrective action;
 - Developing open lines of communication; and
 - Enforcing disciplinary standards
- Document the audit:
 - o Use a standard form for claim audits, EOBs, and interviews
 - Guarantees consistency in the evaluation
 - Reduces subjectivity
 - Create a summary of the audit process using a "W-question" format to simplify the understanding and the actions to correct the findings.
 - Source (where the information came from);
 - Purpose (why you gathered it);
 - Procedures (what you did with it);
 - Results (what you learned); and
 - Conclusion (what it means).
- Review and act on the results.
 - o Review and analyze audit documents, preferably with other compliance staff.
 - Determine if issues identified through the audit are significant, material, and systemic and in which part(s) of the control system those issues reside.
 - Feed audit results back into risk assessment and revise it accordingly.
 - Consider what you could easily and effectively do to control the key risks.
 - o If needed, brainstorm with other relevant staff on how to control or minimize the key risks found.
 - Introduce controls based on what you have learned.
 - Release audit results, revised risks, and new controls to the organization.
 - o If the change is major, document control changes in policy and procedure.

Marketing & Partnership

1. Describe how your company will position and propose to support CPC and its participating agencies regarding program growth.

A multi-state program like this needs circulation, distribution, dissemination. EIS, with the proper authorization of CPC, would include the logo and the alliance status in our marketing documentation and website.

2. Describe and submit a marketing plan that would describe, at a minimum, the following: process on how the contract will be launched to current and potential agencies, the ability to produce and maintain full-color print advertisements in camera-ready electronic format, including company logos and contact information, anticipated contract announcements, planned advertisements, industry periodicals, other direct, or indirect marketing activities promoting the awarded contract, and how the contract award will be displayed/linked on your organization's website. You can submit any support materials as Exhibit A – Marketing Plan.

- 2. Complete immersion in our current and future marketing and sales campaigns.
 - a. Cold calls
 - b. Multiple Email campaigns
 - c. Marketing materials

See Sample Material in EXHIBIT A – MARKETING PLAN

3. Describe how your company will position this contract to CPC's participating agencies if awarded.

^{1.} Press Release

- 1. Considering ourselves as a Trade Ally of CPC, we will position the contract as another successful effort of CPC's in providing pre-qualified professional and nationally recognized providers of sustainable and energy efficient products and services.
- 2. Describe how you plan to inform and train company personnel on the contract terms and conditions, details, and promotion of the contract. Describe how your organization plans to utilize your marketing and sales staff with this anticipated contract.
 - 1. Complete immersion in our current and future marketing and sales campaigns.
 - a. Management calls
 - b. Sales meetings review
 - c. Assignment of account team: outside sales, inside sales support, project manager
 - d. Addition to cold calls and email campaigns
 - e. Add CPC to marketing materials

Exceptions & Deviations

```
1. List any additional stipulations and/or requirements your company requests that are not covered in the RFP. NA
```

- 2. List any exceptions your company is requesting to the terms outlined in the Technical Specifications. Respondents must include the following when requesting exceptions:
 - RFP section number and page number
 - Describe the exception
 - Explanation of why this is an issue
 - A proposed alternative to meet the needs of participating agencies and the cooperative

NA

References

Provide three (3) references that have purchased Lighting Audit and LED Solutions <u>from your company within the last two (2) years</u>. References from the proposed service area are preferred. A contact name, phone number and email will be required. *Note, ensure your references are prepared to communicate with a representative from CPC. Failure to confirm reference of past work may affect your evaluation.

| Reference #1 – Company Name | RR Donnelly, Inc |
|-----------------------------|------------------------------------------------------------------|
| Service/Product Purchased | All types of LED for multiple facilities |
| Year of Purchase | 2022-2023 |
| Reference Contact | Mark Guin |
| Phone | 630-329-3553 |
| Email | Mark.guin@rrd.com |
| Reference #2 – Company Name | Imerys |
| Service/Product Purchased | LED Upgrades and Compressed Air |
| Year of Purchase | 2021-2023 |
| Reference Contact | Patrick Zailaa |
| Phone | 805 737 1265 |
| Email | patrick.zailaa@imerys.com |
| Reference #3 – Company Name | CleaResult – Engineering firm handling Entergy incentive program |
| Service/Purchase Purchased | LED Upgrades, Compressed Air, ERV, Power Quality |
| Year of Purchase | 2015-present day |
| Reference Contact | Taylor Dumas CEM BEP |

| Phone |
|-------|
| Email |

501-265-0249 Taylor.dumas@clearesult.com

Vendor Forms & Signatures RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein are forms and information required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

COOPERATIVE Purchasing

CONNECTION

To submit the <u>required forms</u>, follow these steps:

- 1. Read the document in its entirety.
- 2. Complete all questions and forms.
- 3. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Forms & Signatures Name of Company*".
- 4. Submit the forms in the required format with all necessary signatures in Public Purchase.

The following sections will need to be completed prior to submission and submitted as one single PDF titled "Vendor Forms & Signatures – Name of Company":

- 1. <u>Contract Offer & Award</u>
- 2. Uniform Guidance "EDGAR" Certification Form
- 3. <u>Subcontractor Utilization Form</u>

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part I will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | EFFICIENCY INTEGRATED SOLUTIONS, INC. | Date | SEP-07-2023 |
|-------------------------|------------------------------------------|------------------|--------------------|
| Address | 829 PICKENS INDUSTRIAL DR. NE; SUITE 13 | City, State, Zip | MARIETTA, GA 30062 |
| Contact Person | ALEX FIGUEIRAS | Title | CEO |
| | | | |
| Authorized Signature | A.F | Title | CEO |
| Email | afigueiras@energyintegratedsolutions.com | Phone | 678-315-7040 |
| | | | |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | | Authorized Signature | |
|----------------|-------------------|----------------------|--|
| Name | | Title | |
| Awarded this | day of | Contract # | |
| Contract/Agree | ement to Commence | | |

EDGAR Certification Form 2 CRF Part 200

REQUIRED CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS – APPENDIX II TO 2 CFR 200

The following provisions are required and apply when federal funds are expended by participating agencies for any contract resulting from this procurement process.

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Vendor Violation or Breach of Contract Terms

Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. Provisions regarding vendor default and legal remedies are included in Sections I.K.18 and I.K.19 above. Any contract award will be subject to such provisions. The remedies under the contract are in addition to any other remedies that may be available under law or in equity.

(B) Termination for Cause and for Convenience

Pursuant to Federal Rule (B) above when federal funds are expended by participating agencies, the participating agency reserves all rights to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by the Vendor, in the event the vendor fails to" (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. The participating agency reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if the participation agency believes, in its sole discretion that it is in the best interest of the participating agency to do so. The vendor will be compensated for work perform and accepted and goods accepted by the participating agency. Any award made under this procurement process is not exclusive and the participating agency reserves the right to purchase goods and services from other vendors when it is in the best interest of the participating agency.

(C) Equal Employment Opportunity

Except as otherwise provided under 41 CFR Part 60, all participating agency purchases or contract that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR Part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

(D) Davis Bacon Act

When required by Federal program legislation, Vendor agrees that, for all participating agency contracts for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, in excess of \$2,000, Vendor shall comply with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the Vendor is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a

wage determinate made by the Secretary of Labor. In addition, the Vendor shall pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Vendor must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act

Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. The requirements of the 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions that are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies, materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Right to Inventions Made Under a Contract or Agreement

If the participating agency's Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance or experiments, developmental or research work under the "funding agreement," the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act and Federal Water Pollution Control Act

Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Order 12549 and 12689)

A contract award (see 2 CFR 180.222) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), "Debarment and Suspension." SAM exclusions contain the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Vendors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by participating agencies, the vendor certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, the vendor certifies that it is compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be include in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriated tiers and that all subrecipients shall certify and disclose accordingly.

(J) Procurement of Recovered Materials

For participating agency purchases utilizing Federal funds, Vendor agrees to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act where applicable and provide such information and certifications as a participating agency may require to confirm estimates and otherwise comply. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery, and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

(K) Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment

A participating agency is prohibited from obligating or expending funds to:

- (1) Procure or obtain.
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou

Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

- (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
- (iii)Telecommunications or video surveillance equipment or services products or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(L) Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.

For the purpose of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

PROFIT AS A SEPARATE ELEMENT OF PRICE

For purchases using federal funds in excess of \$250,000, a participating agency may be required to negotiate profit as a separate element of the price. See 2 CFRR 200.323(b). When required by a participating agency, the vendor agrees to provide information and negotiate with the participating agency regarding profit as a separate element of the price for a particular purchase. However, vendor agrees that the total price, including profit, charged by the vendor to the participating agency shall not exceed the awarded pricing.

RECORD RETENTION REQUIREMENTS FOR CONTRACTS PAID FOR WITH FEDERAL FUNDS – 2 CFR § 200.333

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The vendor further certified that vendor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending maters are closed.

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that the vendor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conversation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18; Pub. L. 94- 163, 89 Stat. 871).

CERTIFICATION OF NON-COLLUSION STATEMENT

Vendor certifies under penalty of perjury that its responsible to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Pursuant to Federal Ruling, when federal funds are expended by participating agencies, the vendor hereby certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, vendor certifies compliance will all provisions, laws, acts, regulations as specifically noted above. The vendor agrees to comply with all federal, state, and local laws, rules, regulations, and ordinances, as applicable.

| Business Name | EFFICIENCY INTEGRATED SOLUTIONS, INC. | Authorized Signature | A.F |
|---------------|---------------------------------------|-------------------------|-----|
| Full Name | ALEX FIGUEIRAS | Title | CEO |

Subcontractor Utilization Form

Instructions: List all subcontractors to be used during the performance of this contract. Submit additional forms if needed.

| Solicitation Name: | LIGHTING AUDIT SERVICES & LED SOLUTIONS | | | | | | |
|---------------------------|--------------------------------------------------------------------------------|--|--|--|--|--|--|
| Solicitation Number: | RFP 24.5 | | | | | | |
| Vendor Name: | EFFICIENCY INTEGRATED SOLUTIONS, INC. | | | | | | |
| If a subcontractor will 1 | not be used, check this box: | | | | | | |
| Company Name: | CURTIS ELECTRIC, LLC | | | | | | |
| Street Address: | 1406 N. JACKSON | | | | | | |
| City, State, Zip: | MAGNOLIA, AR 71753 | | | | | | |
| Telephone: | (870) 818-2266 | | | | | | |
| Primary Contact: | JOHN P. CURTIS | | | | | | |
| Email Address of Cont | act: jpcurtis@hotmail.com | | | | | | |
| Services to be provide | :d: | | | | | | |
| LED LIGHTING UPGRAD | DES INSTALLATION, REMOVAL OF ELECTRIC FIXTURES, SUPERVISION OF LOCAL PERSONNEL | | | | | | |
| Company Name: | | | | | | | |
| Street Address: | | | | | | | |
| City, State, Zip: | | | | | | | |
| Telephone: | | | | | | | |
| Primary Contact: | | | | | | | |
| Email Address of Cont | act: | | | | | | |
| Services to be provide | :d: | | | | | | |
| | | | | | | | |
| Company Name: | | | | | | | |
| Street Address: | | | | | | | |
| City, State, Zip: | | | | | | | |
| Telephone: | | | | | | | |
| Primary Contact: | | | | | | | |
| Email Address of Cont | act: | | | | | | |
| Services to be provide | :d: | | | | | | |
| | | | | | | | |

| j. | s. |
|--------------|-------|
| <u>Ú</u> | tab |
| Σ. | ole i |
| | ltip |
| Š | mm |
| Ļ. | as I |
| | kh |
| n | 00 |
| \mathbf{A} | Ę |
| hn | MO |
| Ē | uis , |
| Ξ | e th |
| E | lot |
| ÞÒ | e n |
| | eas |
| | *PI |
| | |

Instructions. Complete the tables below for the services your company is offerring. Please note this is an REQUIRED form.

Efficiency Integrated Solutions, Inc. (EIS), dba Energy Integrated Solutions Responding Company's Name:

REQUIRED

| Lighting Assessment & Design | | | | | | |
|--------------------------------------------------------------|------------------------------|-------------------------------|-----------|-------------------------|------------------------|-------------------------------------------------------------|
| Description | Standard Price & | Discounted Price & | Member | Per Diem Charges | Mileage Charges | Notes/Comments |
| I inhine Andit 8. Accomment (non connection) | ¢ Kale | ¢ ¢ | | (uany rate, n any) ¢ | рег mue, n any) Ф | 10 for and it american and it formation in anorded to EIC |
| Lightung Auun & Assessment (per square root) | ¢ , 0.00 | • • | 0/.0.T | ۰ ۲ | ۰ ۲ | pu iui auuit sei vites uiity ii pi ujett is awai ueu tu Eis |
| Design Services: Facility under 20,000 sqft | \$ 1,000.00 | \$ 200.00 | 50% | | - | Per design for facilities under 20,000 sqft. |
| Design Services: Facility over 20,000 sqft | \$ 3,000.00 | \$ 1,500.00 | 50% | | | |
| Project Management: Facility under 20,000 sqft | \$ 3,500.00 | \$ 1,500.00 | 57% | \$ 100.00 | | |
| Project Management: Facility over 20,000 sqft | \$ 7,000.00 | \$ 3,000.00 | 57% | \$ 100.00 | | |
| | | | #DIV/0! | | | |
| Installation [Labor] **Prevailing wage projects/inst | alls are subject to <u>h</u> | <u>igher</u> hourly rates | /charges. | Prevailing wage r: | ates change by MN | county. Participating agencies are required to notify the |
| Vendor if prevailing wages are required (state/federal fundi | ing as part or all of | the project). | | | | |
| | Standard Price & | Discounted Price & | Member | Per Diem Charges | Mileage Charges | Matter (Gammanta |
| Description | Rate | Rate | Savings | (daily rate, if any) | (per mile, if any) | Notes/ comments |
| Hourly Rate - Regular Hours | \$ 95.00 | \$ 80.00 | 15.79% | \$ 35.00 | Per IRS standards | |
| Hourly Rate - Evening | \$ 142.50 | \$ 120.00 | 15.79% | \$ 35.00 | Per IRS standards | |
| Hourly Rate - Weekend/Holidays | \$ 142.50 | \$ 120.00 | 15.79% | \$ 35.00 | Per IRS standards | |
| | | | #DIV/0! | | | |
| | | | #DIV/0! | | | |
| | | | #DIV/0! | | | |
| Other Services | | | | | | |
| Docomination | Standard Price & | Discounted Price & | Member | Per Diem Charges | Mileage Charges | Materia (Commerciated |
| Description | Rate | Rate | Savings | (daily rate, if any) | (per mile, if any) | NOLES/LOMMENLS |
| Rebate Fulfillment (per square foot) | \$ 0.05 | \$ 0.02 | 60.00% | | | Discount price only if project is awarded to EIS |
| Recycling Services (per square foot) | \$ 0.25 | \$ 0.145 | 42.00% | | | |
| Training: Per 6 hour training session | \$ 2,000.00 | \$ 1,000.00 | 50.00% | \$ 100.00 | Per IRS standards | |
| | | | #DIV/0! | | | |
| | | | #DIV/0! | | | |
| | | | #DIV/0! | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |

2.1 - LED Category Discount

*Please note this workbook has multiple tabs.

Instructions. Complete the following schedule for all categories of product offered (by catalog, category, and/or by manufacturer) which can include sub-categories (specific lines from manufacturers) and the discount associated with that category. The form should be completed by the standards listed in the Technical Specifications. Additional rows may be added. This is a required form **if proposing lighting solutions**.

| Responding Company's Name: | Efficiency Integrated Solutions, Inc. (EIS), dba Energy Integrated Solutions | | | | | | |
|----------------------------------------|------------------------------------------------------------------------------|----------|--|--|--|--|--|
| | REQUIRED FORM | | | | | | |
| Catalog/Category/Manufacturer Grouping | Discount Offered | Comments | | | | | |
| MetroTech Products | 5% | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

3 - Volume Discounts

*Please note this workbook has multiple tabs.

Instructions. Complete the form below if your company is offering additional discounts for a one time purchase, size of project, or a group of local agencies in a geographic area combining requirements (estimate annual spend). Please note this is an optional form.

Responding Company's Name:

OPTIONAL FORM

| nt From | Dollar Amount To | Catalog/Product/Manufacturer | Additional Discount Offered |
|---------|------------------|----------------------------------------|-----------------------------|
| 000.000 | \$1,000,000.00 | Design and Project Management Services | 5% |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



ERTIFICATE OF LIABILITY INSURANCE

| DATE (MM/DD/YYYY) | |
|-------------------|--|
| 0/6/2022 | |

ENERIN-S01

| | | | | C | , E l | | FICATE OF LIA | BIL | | UKAN | LE | | 9 | 9/6/2023 |
|------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-----------------------------------|------------------------------------------------------------|------------------------------|------------------------------|-----------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-------------------------------------------|-----------------------------------------|-------------------------------|--------------------------|----------------------------------------|
| T C B R | HIS ERT ELO EPR | CERTIFICA IFICATE D W. THIS ESENTATIN | TE IS OES N CERTII /E OR | ISSUED AS A IOT AFFIRMAT FICATE OF IN PRODUCER, A | A MA TVEL SUR/ ND T | TTEP Y OI ANCE HE C | R OF INFORMATION ON R NEGATIVELY AMEND, E DOES NOT CONSTITU ERTIFICATE HOLDER. | LY AN EXTE TE A | D CONFERS ND OR ALT CONTRACT | NO RIGHTS ER THE CO BETWEEN | UPON THE C OVERAGE AN THE ISSUING | ERTIFICA FORDED INSURER | TE HC BY TH (S), A | LDER. THIS IE POLICIES UTHORIZED |
| IN If th | MPO SU nis c | RTANT: If BROGATIO ertificate do | the c N IS V | ertificate holde VAIVED, subje t confer rights t | erisa ctto cthe | n AD the cert | DITIONAL INSURED, the terms and conditions of ificate holder in lieu of su | policy(the po ch end | (ies) must ha licy, certain lorsement(s) | ve ADDITIO policies may | NAL INSUREI require an e | D provisior ndorsemer | nsorb nt.As | e endorsed. statement on |
| PRO | DUCE | R | | | | | | CONTA | ст | | | | | |
| Hou | iche | ns Insuranc | e Grou | qı | | | - | PHONE | (615) 2 | 261-1900 | | FAX | (615) | 261-1901 |
| 109 Frai | Inte | rnational Di | rive, Su | uite 101 | | | - | E-MAIL | $\frac{(0,0)}{2}$ | higusa.com | า | (A/C, NO): | (010) | 201 1001 |
| 110 | | , 111 07 007 | | | | | - | ADDRE | 55: - | | | | | NAIC # |
| | | | | | | | - | INCLIDE | | | Company | L | | 14060 |
| INSI | IRFD | | | | | | | INSURE | | ity Fire Insi | Irance Com | nany | | 29459 |
| | | Efficie | ncy In | tegrated Solution | ons, | Inc D | BA | INSURE | | ity i no mot | | party | | |
| | Energy Integrated Solutions, Inc 839 Pickens Industrial Dr. NF Suite 13 | | | | | | | INCUDE | RC. | | | | | |
| | 839 Pickens Industrial Dr. NE Suite 13 Marietta, GA 30062 | | | | | 5 | INCUDE | RD. | | | | | | |
| | Mariella, GA 50002 | | | | | | INSURE | RE. | | | | | | |
| COVERAGES CERTIFICATE NUMBER: REVISION NUMBER: | | | | | | | | | | | | | | |
| Т | HIS | S TO CERT | IFY TH | | ES O | | SURANCE LISTED BELOW F | HAVE B | FENISSUED | | | BOVE FOR 1 | | |
| IN C E | IDIC/ ERTI XCLU | ATED. NOT FICATE MAY JSIONS AND | WITHS / BE IS CONDI | TANDING ANY F SSUED OR MAY TIONS OF SUCH | REQU PER POLI | IREM TAIN CIES | ENT, TERM OR CONDITION , THE INSURANCE AFFORE LIMITS SHOWN MAY HAVE | N OF A DED BY BEEN F | NY CONTRAC THE POLICI REDUCED BY | CT OR OTHER IES DESCRIB PAID CLAIMS | R DOCUMENT \ ED HEREIN IS | WITH RESPI | ECT TO TO ALL |) WHICH THIS THE TERMS, |
| INSR LTR | | TYPE | OF INSU | RANCE | ADDL | SUBR WVD | POLICY NUMBER | | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | | LIMIT | rs | |
| A | Χ | COMMERCIA | | | | | | | . , | | EACH OCCURR | ENCE | \$ | 1,000,000 |
| | | CLAIMS- | MADE | X OCCUR | | | CPP2676460 | | 3/31/2023 | 3/31/2024 | DAMAGE TO RE PREMISES (Ea o | NTED occurrence) | \$ | 100,000 |
| | | | | | | | | | | | MED EXP (Any o | ne person) | \$ | 10,000 |
| | | | | | | | | | | | PERSONAL & AI | OV INJURY | \$ | 1,000,000 |
| | GEI | N'L AGGREGAT | | APPLIES PER: | | | | | | | GENERAL AGG | REGATE | \$ | 2,000,000 |
| | X | POLICY | PRO- JECT | LOC | | | | | | | PRODUCTS - CO | OMP/OP AGG | \$ | 2,000,000 |
| | | OTHER: | | | | | | | | | EMPLOYEE | BENEFI | \$ | 3,000,000 |
| Α | AUT | OMOBILE LIAE | BILITY | | | | | | | | COMBINED SING (Ea accident) | GLE LIMIT | \$ | 1,000,000 |
| | | ANY AUTO | | | | | CPP2676460 | | 3/31/2023 | 3/31/2024 | BODILY INJURY | (Per person) | \$ | |
| | | OWNED AUTOS ONLY | | SCHEDULED AUTOS | | | | | | | BODILY INJURY | (Per accident) | \$ | |
| | Χ | HIRED AUTOS ONLY | X | NON-OWNED AUTOS ONLY | | | | | | | PROPERTY DAM (Per accident) | IAGE | \$ | |
| | | | | | | | | | | | | | \$ | |
| | | UMBRELLA L | IAB | OCCUR | | | | | | | EACH OCCURR | ENCE | \$ | |
| | | EXCESS LIAB | | CLAIMS-MADE | | | | | | | AGGREGATE | | \$ | |
| | | DED | RETENTIO | ON \$ | | | | | | | | | \$ | |
| В | WOF | KERS COMPE | | I Y | | | | | | | X PER STATUTE | OTH- ER | | |
| | ANY | PROPRIETOR/ | PARTNER | | N / A | | 33WECAO8081 | | 4/20/2023 | 4/20/2024 | E.L. EACH ACCI | DENT | \$ | 1,000,000 |
| | OFF (Mar | CER/MEMBER | EXCLUDE | ED? | N/A | | | | | | E.L. DISEASE - E | EA EMPLOYEE | \$ | 1,000,000 |
| | If yes | s, describe unde CRIPTION OF (| r DPERATI | ONS below | | | | | | | E.L. DISEASE - F | POLICY LIMIT | \$ | 1,000,000 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| DES | CRIPT | ION OF OPERA | TIONS / | LOCATIONS / VEHIC | LES (| ACORI | D 101, Additional Remarks Schedul | le, may b | e attached if mor | e space is requir | red) | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| CERTIFICATE HOLDER | CANCELLATION |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. |
| Cooperative Purchasing Connection 1001 E Mount Faith Fergus Falls, MN 56537 | AUTHORIZED REPRESENTATIVE Ben Brown |

ENERGY EFFICIENCY PROJECT Imerys Performance Minerals, Lompoc CA Facility

LED Upgrade & Retrofit Example Energy Conservation Measures



Requested by

Cooperative Purchasing Connection Ref: RFP 24.5 Lighting Audit Services & LED Solutions 1001 E Mount Faith Fergus Falls, MN 56537 (888) 739-3289 info@purchasingconnection.org

Prepared by

Efficieny Integrated Solutions, Inc. 829 Pickens Industrial Dr. NE, Suite 13 Marietta, GA 30062

Enrique Perez-Young CMO (404) 937-6547 ext 721 eperez-young@energyintegratedsolutions.com

September 7, 2023



CPC RFP 24.5 Project Deliverables EIS



Table of Contents Α. B. С. D. Final Walkthrough, Final Report and Rebate Summary7 **APPENDIX B:** EIS Project Status Report - COMPLETION WALKTHROUGH version and the **APPENDIX C:** Installation Report with the calculated energy savings per fixture per area with PG&E Customized Kick Off Meeting Discussion Points and the Photo-Detail of APPENDIX D:





DISCLAIMER AND CONFIDENTIALITY

This report is not intended to serve as an engineering design document but is intended to provide estimated energy efficiency savings associated with the proposed projects. The information and recommendations presented in this report have been reviewed for their technical accuracy and are believed to be reasonable and correct.

All schematics, savings, and cost estimates are for informational purposes, and are not to be construed as a design document or as guarantees.

Final project specification and calculation of potential savings and costs should be developed using appropriate LED Lighting and Energy Savings professionals.

Cost and savings estimate, and "totals" included in tables may reflect rounding.

Efficiency Integrated Solutions, Inc. will not be held liable if plant staff fails to act on any safety or environmental recommendations noted in this report.

Reproduction or publication of the content of this document in any manner without the express permission of Efficiency Integrated Solutions, Inc. or Energy Integrated Solutions is prohibited.

This report is confidential, and the information is not to be used or disclosed in whole or in part for any purpose other than to evaluate this document.



A. Executive Summary

Imerys Performance Minerals Americas at Lompoc, CA contracted EIS services to audit and analyze current lighting installation and to upgrade all lighting at the mining facility to an energy efficient lighting concept, complying with Imerys internal minimum lighting operating standards.

COOPERATIVE

Purchasing CONNECTION

The scope of work performed updated the lighting at Imerys Lompoc, using LED latest technology to minimize electrical usage.

Electrical Scope of Work, quantities, locations, and fixture types were assessed by EIS and a suitable lighting arrangement was proposed in order to meet the minimum lighting requirements (Imerys Standard IN-CX-ELE-001 rev.01) with the level of efficiency required by PG&E (the utility organization) in order to maximize the incentives and rebates established for this industrial type of customer. Additionally, Imerys internal lighting was enhanced to reach a CRI of 80 or higher, unless otherwise authorized by the Imerys project manager.

This project, as any other EIS project was approached following out 4 steps of optimization process:



Initial Assessment (Pre-Assessment; initial onsite walkthrough; and operational relevant data discovery process)

- Engineering and Design (Analysis of the data collected; evaluation of potential areas of enhancement and applicable technologies; presentation and discussion of the discoveries with the customer; establishment of KPIs and M&V methodology. If more than one ECM is accepted to be thoroughly evaluated, then a more comprehensive site survey is scheduled, including meters and gauges installation)
- Installation (Triggered by the PO; supply Chain of materials and labor; project manager is involved; and implementation of approved technologies)
- Measurement and Verification (If the customer agrees to this point, instrumentation and control is set up to properly measure parameters of M&V adopted methodologies; apply customized M&V measurements while KPIs are calculated as agreed between the parties; perform verification of savings and KPI's following applicable IPMVP standard; and adjust results based on expected variations on production, down time, climate conditions, etc.)

CPC RFP 24.5 Project Deliverables EIS



B. Lighting Audit and Results

As specifically requested by the customer, this project was tailored to analyze exclusively the Lighting System of the facility and the mining operation, reason why the results were only tabulated and evaluated with the details of every single lighting source in the plant allocated to every specific area, hours of operation and environment condition during the operation. (See Appendix D for reviewing customized Kick Off Meeting discussion points and the photodetail of every single fixture/lamp in the facility)

From this point on, the data was consistently included in every aspect of the design, energy consumption estimations, budgeting, discussion, and approval and finally installation and final walkthrough to facilitate the customer acceptance and future verification.

The proposal includes then solutions for every one of the audited items. It is a very detailed calculation of wattage consumption, temperature and color of the LED fixture and bulb designed to maintain the appropriate illumination or, more often than not, to improve such level of illumination to the OSHA/MSHA standards. Even the calculation of labor required for the implementation of the project is carefully considered for the minutes required to remove, dispose, and replace each one of the lighting sources in the plant. (See Appendix A to review the standard EIS proposal, which shows scope of work; calculation of current and future energy usage; pricing and investments; details of each replacement, retrofit or addition to the lighting system; expected savings inherent to the ECM; incentives and rebates offered by utility program and/or federal funds; financial projections; installation schedule per area per week; etc.)



Additional issues found during the audit and discovery process and solved as part of the project implementation:

COOPERATIVE

Purchasing CONNECTION

a. I: During the audit, it became evident that the excessive vibration in some steel structures, caused by adjacent conveyor belts and rock mills, was the source of continued failures in the lighting system since the beginning of the operation of the plant. The customer tried in the past to remedy the problem and explored different options, with no foreseeable solution.

R: EIS, supported by the manufacturers, tested several alternatives, and found a solution with neoprene rings that cushioned the new bulbs into the fixtures and avoided failures. This solution was found sustainable, and it was successfully implemented. It is now part of the fixture/bulb specification in other Imerys plants.

b. I: As part of the normal operation of the plant, it became a practice/habit running vehicles and roaming people on a narrow corridor between the Silicate WH and the property fence, in order to access the Celpure Plant. Mostly at night, due to null illumination and lack of proper signaling, this long area was the cause of quasi-accidents.

R: EIS extended installed movement-sensor-controlled area lighting and wall packs in the problematic corridor as an add-on to the SOW of the project, without increasing the energy consumption of the Silicate WH.

c. I: An important portion of the electric wiring was old and defective due to dry-cracked insulation.

R: EIS offered its services to remove, dispose and reinstall new wiring, but this aspect was considered out of scope for the budgeted LED Upgrades investment and Imerys decided to do it on their own.

I: Extending the audit to night shifts allows EIS to define improper or poor illumination in some areas. For
 Imerys Lompoc's case, this exercise made evident that some LED bulbs, previously installed by the customer,
 in external structures were inappropriately selected when sourced, since it caused a cloudy illumination with
 only clear vision at less than 1ft from every light source.

R: Due to the quantity of fixtures to be corrected, this portion of the proposal was also removed from the SOW and performed as a correction of a prior internal project by themselves.

EIS, at the request of Imerys, presented three alternative proposals for the customer to decide the level of retrofits that will keep their investment within their budget and corporate acceptable payback. The selected proposal achieved a total investment of \$447,162, which represented annual energy savings of 1,062,347 kWh (\$133,374) and maintenance-material savings of \$11,170 per year; resulting in an investment payback of 3.04 years.

All work was completed according to Imerys safety standards. EIS guaranteed LED fixtures for 10 years and labor for 5 years.



C. Installation/Project Management plan

Once the proposal was selected, the capital project was approved, and the PO was issued along with the mutually agreed downpayment and payment structure, the project general schedule and installation intervals included in the proposal is broken-down by the Project Managers in workable timelines and weekly schedules per area per fixture.

This extremely detailed project management plan, in Gantt graph and/or tabulated form was shared with the installation crew and weekly discussed and adjusted with Imerys Authorized Representative to ensure all the parties were aware of the working areas, type of equipment, lifters, personnel, quantity of material to be present in the operating areas in a specific date/time of the week. This reduced, to the very minimum, disruption of the production timeline.

At the end of every week the timeline was adjusted, and the new schedule for the next week was shared with the appropriate operations and production area personnel. (See Appendix B with the Installation Report with Labor, which the Project Manager uses as a base to generate workable timelines in Gantt charts)

Soft acceptances by the customer representative, supported by partial walkthroughs were scheduled every week to ensure the finished areas were within the parameters specified by the contract and agreements; to be sure that every area was cleared or still had pending issues (punch list). So, if additional work was needed, the schedule was not interrupted or unnecessarily extended; if changes of the SOW were discovered, appropriate change orders were issued, and delays were avoided or kept to the minimum.

D. Final Walkthrough, Final Report and Rebate Summary

One or two weeks prior to the installation closing, a formal final walkthrough was scheduled by the Project Manager with the EIS On-site Supervisor and the Imerys Authorized Representative. During the exercise, a documented process was in effect, and a Final Report was generated on the spot, containing area by area clearance or a complete punch list of unsolved items (which was not the case). Also, a review of all the change orders completion is achieved.

The document includes relevant pictures or areas, description of closed and open items to be solved, if any, and the signature of both authorized parties. (See Appendix C with the EIS Project Status Report – COMPLETION WALKTHROUGH version; the installation report with the calculated energy savings per type of fixture, required to submit the rebate/incentive filing with PG&E; and a copy of the catalogued rebates that EIS was able to obtain on Imerys behalf)



CPC RFP 24.5 Project Deliverables EIS



APPENDIX A: Sample of a standard EIS proposal



LED LIGHTING PROPOSAL SUMMARY: Option 3 – Keep 19W LED Bulbs

Prepared for

Imerys Filtration: Lompoc, CA

Site Information

- Name: Imerys Lompoc CA
- Address: 2500 San Miguelito Rd
 - Lompoc CA 93436

Proposal Expires

10/06/2021





IMERYS

Carbonates





September 7, 2021

Imerys - Lompoc, CA

Dear Project Owner,

Thank you for the opportunity to provide this proposal for the LED lighting upgrade. As you are aware, as the cost per kWh of energy from municipal power grids continues to rise each year, many businesses are seeking long-term alternatives to reduce their energy bills. LED lighting retrofits provide an easy way to reduce operating costs through energy efficiency. Furthermore, incentives continue to shrink in the lighting category as utilities are exploring creative ways to continue to reduce electrical consumption through alternatives other than lighting upgrades.

Key highlights of your project:

| • | Reduction in | energy: | 1, | ,062,347 | kWh |
|---|--------------|---------|----|----------|-----|
|---|--------------|---------|----|----------|-----|

- Reduction in demand: 193 kW
- Annual energy cost savings: \$133,374
- Annual maintenance savings: \$11,170
- Estimated Utility incentives available: \$7,866
- Project ROI / simple payback period: 3.04 years

EIS is committed to **deliver a value-added difference** - providing you with quality products and workmanship on your project; offering you excellent customer service, support, and satisfaction; and expanding and improving services, quality processes and programs. Why us?

- 1. Your success and profitability are paramount to our success because we are dependent on your ongoing business.
- 2. EIS has been in business since 1978, meaning we have the financial fortitude to back this project if something were to go wrong (our doors are not closing).
- 3. We specify solutions that are sustainable and specific for your site and environment.
- 4. You have the commitment of your sales representative.
- 5. We are a turn-key solution provider, project manager and financier.
- 6. Awarded by Entergy Arkansas as the trade ally company that saved the most energy in 2019 and 2020 for large Commercial and Industrial (C&I) customers. Work w/ partners with similar accomplishment for ComEd. These are the best incentive utility programs in the nation right now.

In this proposal, details have been included regarding the expected impact that a system will have on your energy use and overall energy costs. A cash system has been modeled, but a finance solution can also be provided upon request.

Key Contacts:

Enrique Perez-Young Energy Integrated Solutions 404-433-9013 <u>eperez-young@energyintegratedsolutions.com</u> Michelle Beard Energy Integrated Solutions 615-319-3024 mbeard@energyintegratedsolutions.com



Executive Summary

Our analysis of existing lighting is based on data, facts and findings from our detailed survey. All financial data is derived from the existing fixtures and true consumption based on operating hours compared to proposed consumption from lighting solutions and controls, validated by DLC-Design Lighting Consortium certification.

| Project Costs | | Financial Metrics | |
|---------------------------------|-----------|-----------------------------------|--------------|
| Total Project Cost | \$447,162 | Payback Period (yrs) | 3.04 year(s) |
| Material Sales Tax ¹ | \$0 | Avg. Annual Return | 33% |
| Incentives/Rebates ² | \$7,866 | 10 Yr Operating Savings | \$1,445,440 |
| Turnkey Project Cost | \$439,296 | Net Present Value | \$648,719 |
| | | | |
| Cost of Waiting | | Assumptions | |
| Postpone for one month | \$12,045 | Energy Rate (\$/kWh) ³ | 0.1200 |
| Postpone for six months | \$72,272 | Annual Utility Rate Increase | 1.00% |
| Postpone for one year | \$144,544 | Discount Rate | 6.00% |

This proposal is for Option 3: Keeps 19W LED bulbs currently in use by Imerys Lompoc.

¹Assumes corporation satisfies all requirements to be exempt from sales taxes and can provide documentation as needed.

² Calculated using guidelines from utility company.

³ From electric bills provided by customer.



Additional Comments

As requested by customer, 196 sensors were added in the designated areas.

We are always sourcing the latest generation of proven LED with the appropriate certifications. For example, the E26 LED bulbs currently used at Lompoc have only a ~88 lumens/watt efficacy vs. our corn bulb over 160 lumens/watt or basically an 82% improvement in illumination. In the case of the high bay fixtures we are at an even higher efficacy of ~190 lumens/watt compared to the average competitor in the 130 -150 lumens/watt.

**Financing options are available. Please note that additional profits from tax savings can be <u>potentially</u> achieved as stated at end of proposal due to tax savings from Section 179 of the 2017 Tax Reform Act. These <u>additional savings</u> are <u>not</u> included in calculations above. Consult your finance team for validation.

Warranty will follow Imerys Corporate Master Service Agreement (MSA) signed with EIS.

Used voltage & some wattage information as provided by customer. When in doubt assumed conservative numbers. <u>Imerys electricians noted during audit that some cables and sockets are in</u> <u>bad condition</u>, e.g., Silicate Plant Processing area. <u>This is outside the scope of the project. Any</u> <u>discrepancies or repairs may/will require a change order.</u>





Impact of New Lighting

Aggregate Average Operating Savings

| Energy Reduction | 66% | Saving Area | Year 1 | Year 5 | Year 10 |
|---------------------------------|------|-------------|------------|-----------|-------------|
| Avg. Annual Maintenance Savings | 100% | Energy | \$133,374 | \$666,870 | \$1,333,740 |
| Avg. Annual Operating Savings | 68% | Maintenance | \$11,170 | \$55,850 | \$111,700 |
| | | Total | \$1444,544 | \$722,720 | \$1,445,440 |


Environmental Summary





Electrical Scope of Work

• Fixture Voltages and Electrical Exceptions

Voltages are as noted in the proposal below and were provided by personnel assigned by the customer during our audit/walk thru and subsequent visits. Any changes as a result of incorrect voltages may result in a need for any one of the following:

- Removal from scope of work.
- Change of fixture type or fixture voltage (may affect the cost of the fixture)
- Change order
- Electrical repairs or upgrades
- Quantities

Quantities, location and fixture type are noted in the proposal and constitute the Scope of Work to be completed for the project. EIS strives to be as accurate as possible during the audit process with the counting of fixtures throughout the entire facility, however, from time to time, there may be fixtures or areas that were not counted or overlooked. EIS will attempt to make any changes (additional material/labor) within the existing project, however there may be a need to add on as a separate project as needed. Any changes of this nature will be discussed with the customer and submitted to the customer for final approval.

• Repairs/Electrical Upgrades

The customer may request that EIS perform repairs or electrical upgrades as necessary to complete the lighting installation but the customer retains the right to contract directly with their contractor to complete any necessary repairs and/or upgrades.

• Change Orders

Change Orders: Upon notification of a change order that falls outside of the projects financial limitations (assignment of incentives), EIS will provide a written estimate and request that the customer issue a PO for the additional scope of work.



Initial Estimated Installation Plan

This estimated installation plan is based on what was surveyed and we are assuming the implementation will take approximately six to eight weeks. The following plan was created to provide a glimpse at what the installation may look like given the layout and challenges of the site. The project includes a cleanup of the installation area prior to exit daily. We will finalize staging and storage needs with you after a notice to proceed has been delivered.



- Week #1-5 Installation
- Week #6-10 Installation
- Week #11-14 Installation, Clean-up, Closing Meeting



Disclaimer

The information provided in this proposal is based on an audit of your facility performed by our personnel or affiliated companies.

Although we attempt to perform the most accurate audit possible, we are subject to several factors that are often times out of our control, i.e. access to areas, incorrect voltage information, unforeseen defects, faulty wiring, damaged lenses, etc. This and other circumstances occasionally lead to minor variances from this proposal. This proposal only includes what is noted in the BOM - Bill of Materials. Any costs related to variances in the fixture count, repairs, substitutions, upgrades not noted, additional fixtures, lenses or ancillary items not noted in the BOM will be considered a change order subject to customer approval. Customer will be notified of these variances for approval of any change in scope and the associated costs.

Estimates of the hours of operation used to calculate savings must be provided to our personnel by representatives of customer facility. Our personnel assume that all current fixtures installed meet local jurisdiction electrical and pertinent safety codes. Fixtures with a "Retrofit" treatment are assumed to be in proper and safe working condition.

Our calculations for energy and maintenance savings as well as our prescribed treatment are based on current (at the time of the survey) operations as indicated by customer representative(s). Changes in processes, operations, equipment, operating hours and/or production schedules, etc. may adversely affect the savings and incentive estimates, required lighting levels and/or the proper assignment of prescribed treatment. Shortfalls in incentives due to incorrect customer information are the responsibility of the customer.



Warranties, Terms and Conditions

1, WARRANTY. STANDARD WARRANTY SHALL APPLY TO ALL GOODS EXCEPT WHERE A SEPARATE WARRANTY IS PRESENTED IN WRITING AND THOSE WARRANTY TERMS REPLACE THOSE FOUND IN THE STANDARD WARRANTY. STANDARD LIMITED WARRANTY, SELLER WARRANTS TO BUYER THAT GOODS AND SERVICES SOLD FOR USE (EXCEPT WHEN USED FOR PERSONAL PURPOSES) HEREUNDER WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP WHICH APPEAR WITHIN ONE (1) YEAR OF THE DATE OF SHIPMENT TO THE ORIGINAL BUYER. PROVIDED THAT BUYER NOTIFIES SELLER IN WRITING OF THE DEFECTS COVERED ΒY THIS WARRANTY WITHIN THIRTY (30) DAYS OF THEIR FIRST APPEARANCE. SELLER'S MAXIMUM OBLIGATION IS TO REPAIR OR REPLACE GOODS WHICH ARE PROVED TO BE DEFECTIVE. ALL WARRANTY WORK IS PERFORMED AT FACTORY. THIS LIMITED WARRANTY IS MADE ONLY AS TO THOSE PRODUCTS MANUFACTURED SOLELY BY THE SELLER. PRODUCTS OF OR ACCESSORIES FOR EQUIPMENT FURNISHED BY SELLER BUT MANUFACTURED BY OTHER MANUFACTURERS SHALL CARRY WHATEVER WARRANTY, IF ANY, SUCH MANUFACTURERS HAVE CONVEYED TO SELLER AND WHICH CAN BE PASSED ON TO BUYER. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND THERE ARE NOT OTHER WARRANTIES, ORAL OR WRITTEN, EXPRESSED OR IMPLIED WITH RESPECT TO ANY GOODS OR SERVICES SOLD HEREUNDER, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSES OR ANY OTHER MATTER UNLESS SUCH WARRANTIES ARE MADE IN WRITING. AFTER EXPIRATION OF THE WARRANTY PERIOD ALL LIABILITY TO BUYER CEASES.

2. DELAY/NON-PERFORMANCE: Seller will not be liable for failure to perform due to any cause beyond Seller's control. Seller will attempt to notify Buyer of any material delay and will specify a revised performance date as soon as practicable, but Seller shall have no Liability for failure to do so.

3. LIMITATIONS OF LIABILITY: a. SELLER WILL NOT UNDER ANY CIRCUMSTANCES, WHETHER AS A RESULT OF BREACH OF CONTRACT, BREACH OF WARRANTY, TORT OR OTHERWISE BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR EXEMPLARY DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE, LOSS OF USE OR DAMAGE TO ANY ASSOCIATED EQUIPMENT, COST OF SUBSTITUTE PRODUCTS OR SERVICES, DOWNTIME COSTS, OR CLAIMS OF BUYER'S CUSTOMERS. b. SELLER'S LIABILITY ON ANY CLAIM OF ANY KIND FOR ANY LOSS, DAMAGE, OR OTHERWISE, ARISING OUT OF, RESULTING FROM, OR CONCERNING ANY RESPECT OF THIS AGREEMENT OR THE GOODS OR SERVICES FURNISHED HEREUNDER SHALL NOT EXCEED THE PRICE OF THE SPECIFIC PRODUCT WHICH GIVES RISE TO THE CLAIM. c. Seller will not be subjected to any liability, whether in contract, warranty, tort or otherwise, on any claim for loss or damage concerning products, parts, advice, assistance or service which Seller furnished to buyer as a business courtesy, but not required hereunder. d. Seller shall have no responsibility or liability for goods which have been misused, inadequately maintained or stored, or incorrectly or negligently installed or serviced.

4. RETURN FOR CREDIT: Generally, debit memos and other return-for-credit vouchers will not be honored. Returned merchandise will be regarded as returned for repair. Exceptions may, at Seller's option, be possible when merchandise is returned within thirty (30) days of original delivery date, the merchandise is non-custom and not made to order, and similar merchandise of nearly equal value is substituted. Extra shipping charges, restocking charges, or special charges may be applicable. Advance negotiation by telephone or letter is recommended.

5. REPAIRS: a. Warranty Repair-The defective products must be returned to Seller within the warranty period, accompanied by a statement of the reason for return and the Buyer's option as to warranty applicability.



METROTECH MEDIA & LIGHTING, INC. LIMITED WARRANTY FOR: SOLID STATE LIGHTING PRODUCTS

MetroTech Media & Lighting, Inc. ("MetroTech") warrants to the original end-user ("Purchaser") of "MetroTech"-brand Solid State Lighting Products ("Products"), that at the date of their purchase, "Products" will be free of significant defects in material and workmanship.

10-Year Warranty for Materials and Workmanship

For a period of ten (10) years after the date of purchase, "MetroTech", at its sole option, will, itself, or through others, repair, replace "Product" that "MetroTech" verifies as being defective due to significant material or workmanship defects. The determination of whether the Product is defective shall be made by "MetroTech" in its sole discretion with consideration given to the overall performance of the Product. A Product shall not be considered defective if the number of inoperable components is less than 10% of the total number of LED components in the Product.

What the Warranty Does Not Cover: This warranty does not cover (1) Product advice or assistance that "MetroTech" furnishes as a courtesy, (2) removal or reinstallation of "Products", or (3) defects or damage as a result of accident, modification, misuse (including but not limited to the operation at temperatures above 70oC or voltage levels outside the rated range), improper service or repair, improper facility grounding and system wiring, damage due to improper facility Transient Voltage Surge Suppression (TVSS), abuse or abnormal use including, without limitation, improper storage and incorrect installation. Use with 2 circuit - 3 wire shared neutral wiring installations is not covered. This warranty does not cover damage resulting from acts of nature beyond industry specifications of protection thereof. THIS LIMITED WARRANTY IS VOID IF THE PRODUCT IS NOT USED FOR THE PURPOSE FOR WHICH IT IS DESIGNED.

Conditions of Warranties: It is a condition of these warranties that: (1) the "Purchaser" submit all claims of defect; (2) return of "Product" is accompanied with a bill of sale or other evidence showing the date of purchase and identification of the original "Purchaser"; (3) the "Purchaser" prepay all freight, insurance and other transportation charges to send "Product" to "MetroTech" for warranty-coverage verification, repair or replacement, and; (4) "MetroTech" retains all repaired and replaced parts and "Products".

Warranty Limitations: In no event shall this warranty run to OEM or component-part buyers. All replacement "Products" are warranted only for the remainder of the original warranty of the "Product" replaced. Replacement "Products" will be equivalent in function, but not necessarily identical to, the replaced "Product". Repair or replacement as set forth in these warranties is the sole and exclusive remedy under these warranties or otherwise for "Product" defects. "METROTECH" DISCLAIMS ALL OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION, AND IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Damage Limitations: "METROTECH" IS NOT LIABLE FOR, AND HEREBY DISCLAIMS, ALL DAMAGES CAUSED BY ANY PRODUCT OR THE FAILURE OF A "PRODUCT" TO PERFORM, INCLUDING, WITHOUT LIMITATION, DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFITS OR SAVINGS, UNDER ANY LEGAL THEORY, INCLUDING, WITHOUT LIMITATION, TORT (INCLUDING NEGLIGENCE AND STRICT "PRODUCT" LIABILITY) OR CONTRACT, SUSTAINED BY "PURCHASER" OR BY ANY OTHER PERSON. THIS LIMITATION CANNOT BE WAIVED OR AMENDED BY ANY PERSON AND WILL BE EFFECTIVE EVEN IF "METROTECH" OR ITS REPRESENTATIVE HAS BEEN ADVISED OF, OR MIGHT HAVE ANTICIPATED, THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY MAY NOT APPLY TO DAMAGES RELATING TO PERSONAL INJURY OR DEATH IN JURISDICTIONS WHERE SUCH DAMAGES MAY NOT BE DISCLAIMED AS A MATTER OF LAW.

How to Obtain Warranty Service: To obtain warranty service, "Purchaser" must obtain a "Return Material Authorization" (RMA) number from the MetroTech Media & Lighting Customer Service Group, 38 S. Blue Angel Parkway, Suite 108; Pensacola, FL 32506, USA, kk@metrotechlighting.com.

Solid State Lighting 10-Year Limited Warranty September 21, 2016



We have financing available as an option to implement the project. Please let us know if that is an alternative you would like to explore and we will provide the application paperwork.

We are both in agreement that after the walkthrough that the counts, voltages, utility company, etc. will cover the installation of the LED project agreed upon.

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be executed as of the day and year first above written.

| Acceptance: | Acceptance: |
|--------------|-----------------------------------|
| Imerys | Energy Integrated Solutions, Inc. |
| Signature | Signature |
| Printed Name | Printed Name |
| Date | Date |



MTHBLM

LmMax High Bay

| PRODUCT: | |
|------------|--|
| CATALOG #: | |
| TYPE: | |
| DLC: | |

DESCRIPTION:

MT's LmMax High Bay is built for versatility and performance. With industry leading 190Lm/W, the MT LmMax High Bay gives more light output than competitors with less wattage, meaning higher savings! Available in White (Special Order)

APPLICATION:

- Warehouse
 •Manufacturing
- Commercial

FEATURES & SPECIFICATIONS:





| Rated Power(W) | 70W 90W | | 110W | 110W 150W | | 240W | | | |
|---------------------|---------------|--------------------|---------------|---------------|----------------|---------------|--|--|--|
| Lumens Per Watt | 175-190 | 175-190 | 175-190 | 175-190 | 175-190 | 170-180 | | | |
| Total Lumens | 12250 - 13300 | 15750 - 17100 | 18250 - 20900 | 26250 - 28500 | 35000 - 38000 | 40800 - 43200 | | | |
| L70 | | >50,000 Hrs | | | | | | | |
| Input Voltage | | AC100-277V 50/60Hz | | | | | | | |
| ССТ | | 4000K-5000K | | | | | | | |
| RA (CRI) | | >70 | | | | | | | |
| Power Factor | | | >0 | .95 | | | | | |
| IP Rating | | | IP | 65 | | | | | |
| Beam Angle | | | 60°, 9 | 0°, 120° | | | | | |
| Working Temperature | | -40~54.1°C | | | | | | | |
| Measurements | | Φ 289 x 138 mm | | | Φ 325 x 149 mm | | | | |

EXAMPLES: MTHBLM-90W01-5005-45

Meanwell 4KV Surge Protection Built In

| MetroTech | Series | Watt | | Voltage | | ССТ | Ор | tic/Lens | Internal | DLC |
|-----------|--------|------|----|------------|----|---------|----|----------|----------|-----|
| MT | HBLM | 70W | 01 | (100-277V) | 50 | (5000K) | 01 | (60°) | 45 | Y |
| | | 90W | | | | | 03 | (90°) | | Y |
| | | 110W | | | | | 05 | (120°) | | Y |
| | | 150W | | | | | | | | Y |
| | | 200W | | | | | | | | Y |
| | | 240W | | | | | | | | Y |



MTAPL Area Parking Lot Integrated Driver Onboard

| PRODUCT: | |
|------------|--|
| CATALOG #: | |
| TYPE: | |
| DLC: | |

DESCRIPTION:

MT's Ares Parking Lot Light benefits from the latest in LED technology in a high performance, high efficacy, long-life luminaire. The out standing photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The MT Area Parking Lot Light is an alternative for traditional street and an excellent area lighting with quick payback and improved performance.

APPLICATION:

Street - Roads Indust Parking Lot Walkw General Area Spaces

Industrial Area Walkways

NOTES:

Standard housing color Black

US Assembly Available

Optional housing colors

YM Mount also used for Flood

Mounting Applications.

Bronze White Grey



FEATURES & SPECIFICATIONS:

| Rated Power(W) | 25W | 50W | 75W | 100W | 150W | 200W | 300W | | |
|---------------------|-------------|------------------------------------------------|-------------|--------------------|-------------|-------------|-------------|--|--|
| Luminous Flux | 3200 | 6000 | 9200 | 12000 | 18600 | 23800 | 35000 | | |
| Lumen Efficiency | 135-145Lm/W | 135-145Lm/W | 125-135Lm/W | 120-130Lm/W | 130-145Lm/W | 120-140Lm/W | 120-135Lm/W | | |
| Input Voltage | | 100-277V / 480V (Step down transformer needed) | | | | | | | |
| L70 | | | | ≥100,000 | | | | | |
| ССТ | | | Standa | rd 5000K / 4000K O | ptional | | | | |
| RA (CRI) | | | | >70 | | | | | |
| Power Factor | | | | ≥ .99 | | | | | |
| IP Rating | | IP65 | | | | | | | |
| Beam Angle | | | | Туре 3 | | | | | |
| Working Temperature | | | | -40C° ~ +50C° | | | | | |

EXAMPLES: MTAPL-150W01-50T3YM-29 Note: Photocell and Surge Protector comes standard.

| MetroTech | Series | Watt | Voltage | Color Temp | Lens | Mount | Internal | DLC |
|-----------|--------|------|---------------|------------|-------------------|--------------------------|----------|-----|
| MT | APL | 25W | 01 = 100-277V | 40 = 4000K | T2= Type 2 | AM = Adjustable | 29 | Y |
| | | 50W | 02 = 480V | 50 = 5000K | T3 = Type 3 (DLC) | YM = Yoke (Flood Use) | | Y |
| | | 75W | | | T5 = Type 5 | RPM = Round Pole | | Y |
| | | 100W | | | | SPM = Square Pole | | Y |
| | | 150W | | | | US = Assembled in the US | A | Y |
| | | 200W | | | | | | Y |
| | | 300W | | | | | | Y |

110 Lurton St. Pensacola, FL 32505 1-844-4-METRO-1



MTALSB Shoebox LED

| PRODUCT: | |
|------------|--|
| CATALOG #: | |
| TYPE: | |
| DLC: | |

DESCRIPTION:

MT's Area Light / Shoebox LED with it's sleek design has multiple uses. Various mounting options makes this light is versatile in many applications. High efficiency LED Driver, Lumileds LEDs and cast aluminum design delivers quality. Standard housing color is Black, also available in Dark Bronze and Silver. Custom colors may be available upon request.

DIMENSIONS:

60W – 150W <u>L x W x H Inches</u> AM 20.7 x 12.6 x 2.9 DM 20.3 x 12.6 x 2.9 YM 19 x 12.6 x 2.9 **185W – 300W** <u>L x W x H Inches</u> AM 30.7 x 13.4 x 3.4 DM 29.4 x 13.4 x 3.9 YM 27.2 x 13.4 x 3.4

APPLICATION:

Residential Roads Parking Lot Industrial Area Sidewalks



AM

FEATURES & SPECIFICATIONS:

| Rated Power(W) | 60W | 90W | 120W | 150W | 185W | 240W | 300W | | |
|---------------------|-------------|-------------------|-------------|---------------|-------------|-------------|-------------|--|--|
| Luminous Flux | 8100-8700 | 12150-13000 | 15000-16200 | 18000-19500 | 24050-26825 | 30000-33600 | 36000-41000 | | |
| Lumen Efficiency | 135-145Lm/W | 135-145Lm/W | 125-135Lm/W | 120-130Lm/W | 130-145Lm/W | 120-140Lm/W | 120-135Lm/W | | |
| Input Voltage | | 100-277V 200-480V | | | | | | | |
| L70 | | ≥50,000 | | | | | | | |
| ССТ | | | | 5000K | | | | | |
| RA (CRI) | | | | >70 | | | | | |
| Power Factor | | | | ≥ .90 | | | | | |
| IP Rating | | IP65 | | | | | | | |
| Beam Angle | | Туре 3 | | | | | | | |
| Working Temperature | | | | -20C° ~ +45C° | | | | | |

EXAMPLES: MTALSB-1201-50T3YM-09

Note: Photocell and Surge Protector comes standard.

| MetroTech | Series | Watt | Voltage | Color Temp | Mount | Lens | Internal | DLC |
|-----------|--------|-----------|---------------|------------|-----------------|-------------|----------|-----|
| MT | ALSB | 06 = 60W | 01 = 100-277V | 50 = 5000K | AM = Adjustable | T3 = Type 3 | 09 | Y |
| | | 09 = 90W | 09 = 200-480V | | DM = Direct | | | Y |
| | | 12 = 120W | | | YM = Yoke | | | Y |
| | | 15 = 150W | | | | | | Y |
| | | 18 = 185W | | | | | | Y |
| | | 24 = 240W | | | | | | Y |
| | | 30 = 300W | | | | | | Y |





Stubby Version 100-277VAC LED Corn Lamp

PRODUCT DATASHEET

Updated 02/23/2020

PRODUCT DESCRIPTION

- » LED replacement for high wattage HID fixtures from 100W to 550W.
- » Consumes up to 80% less energy than conventional HID systems.
- » State-of-the-art LED light sources deliver over 155 lumens per watt.
- » Lasts 3x longer than metal halide or HPS HID lamps.
- » Shatter resistant for reduced risk of injury & breakage.
- » Integral driver, eliminates the need for external driver or ballast.
- » Environmentally friendly: contains no glass, mercury, or lead.
- » On-board fan.



*for approved fixture categories

SPECIFICATIONS/FEATURES

- » Voltage 100-277V ac -not compatible with ballasts
- » Warranted 70% light output for 50,000 hours
- » Non-dimmable
- » Up to 155lm/W
- » CRI: >80Ra
- » Power Factor ≥ 0.9
- » Flame retardant material
- » Operating temperature: -4°F to 104°F (-20°C to 40°C)
- » Base Types: E40/E39/Ex39/E27/E26 Base
- » Beam angle: 360 degrees
- » 5 year limited warranty







ССТ

WARM

1000K

3000K

5700K neutral white color temperature as standard. Other color temperatures available to order, subject to minimum requirement. 2700K -6500K

4000K 5700K

RETROFIT EXISTING FIXTURES



TECHNICAL SPECIFICATIONS

| Model No. | Wattage (W) | AC Input | Lumens +/- 5% | сст. | PF | THD | Dimensions Approx W*L | Suggested HID Equivalent | Certificate |
|--------------------|----------------|-------------|------------------|------------|------|------|-----------------------------------------------------------------|-------------------------------------|-------------|
| YL-C015S | 15 | 100~277V ac | 2,325 | 2700-6500K | ≥0.9 | <20% | E26 75*133mm/2.95"x5.24" | 50-100W *Fits mini HID Fixtures* | ETL/CE |
| YL-C020S-20W-M-XXI | 〈 20 | 100~277V ac | 3,200 | 2700-6500K | ≥0.9 | <20% | E26 75*150mm/2.95"x5.91" | 70-110W *Fits mini HID Fixtures* | ETL/CE |
| YL-C020 | 20 | 100~277V ac | 3,200 | 2700-6500K | ≥0.9 | <20% | E26 75*180mm / 2.95"x7.09" | 70-110W *Fits mini HID Fixtures* | ETL |
| YL-C023S-23W-M-XXI | < 23 | 100~277V ac | 3,680 | 2700-6500K | ≥0.9 | <20% | E26 75*150mm/2.95"x5.91" | 80-130W *Fits mini HID Fixtures* | ETL |
| YL-C030SG4 | 30 | 100~277V ac | 4,650 | 2700-6500K | ≥0.9 | <20% | E26 106*160mm / 4.17"x6.30" E39/Ex39 106*170mm / 4.17"x6.69" | 100-150W | ETL/CE |
| YL-C030SL | 30 | 100~277V ac | 4,650 | 2700-6500K | ≥0.9 | <20% | E26 93*140mm / 3.66"x5.51" E39/Ex39 93*150mm / 3.66"x5.91" | 100-150W Slimline stubby | ETL/CE |
| YL-C040SG4 | 40 | 100~277V ac | 6,200 | 2700-6500K | ≥0.9 | <20% | E26 106*160mm/4.17"x6.30" E39/Ex39 106*170mm/4.17"x6.69" | 150-175W | ETL/DLC/CE |
| YL-C040SL | 40 | 100~277V ac | 6,200 | 2700-6500K | ≥0.9 | <20% | E26 93*140mm / 3.66"x5.51" E39/Ex39 93*150mm / 3.66"x5.91" | 150-175W Slimline stubby | ETL/CE |
| YL-C050SG4 | 50 | 100~277V ac | 7,750 | 2700-6500K | ≥0.9 | <20% | E26 106*160mm/4.17"x6.30" E39/Ex39 106*170mm/4.17"x6.69" | 175-200W | ETL/DLC |
| YL-C065SG4 | 65 | 100~277V ac | 10,075 | 2700-6500K | ≥0.9 | <20% | E26 106*165mm/4.17"x6.50" E39/Ex39 106*175mm/4.17"x6.89" | 200-250W | ETL/DLC |
| YL-C085SG4 | 85 | 100~277V ac | 13,175 | 2700-6500K | ≥0.9 | <20% | E26 106*165mm/4.17"x6.50" E39/Ex39 106*175mm/4.17"x6.89" | 300-400W | ETL/DLC |
| YL-C105SG4 | 105 | 100~277V ac | 16,275 | 2700-6500K | ≥0.9 | <20% | E39/Ex39 106*245mm/4.17"x9.65" | 400-450W | ETL/DLC |
| YL-C135SG4 | 135 | 100~277V ac | 20,925 | 2700-6500K | ≥0.9 | <20% | E39/Ex39 132*240mm / 5.20"x9.45" | 400-550W | N/A |

* Dimension lengths listed are calculated for E39 / Ex39 / E26 base. The E27 / E40 base is slightly long.

*Kelvin Temperatures may vary +/- 250k.

*DLC not available for E26 Medium Base. DLC not available for all CCT. Please inquire.



LED Magnetic Strip Retrofit (Choice)

CERTIFICATIONS



PRODUCT FEATURES





Construction LED Strips, LED Drivers, Connector

Applications

- Retail
- Schools
- Offices
- Healthcare
- Various commercial applications

Mounting

- Magnetic clips
- Screw in

Warranty

7-Year Limited Product Warranty (Optional 10-Year Warranty available)

BENEFITS

- Can be used to update existing 2x2 and 2x4 fluorescent luminaires to LED.
- Easy installation, can be completed in as little as 5 minutes.
- Kits include LED strips, an external driver, wire connector, and attached magnets for a quick install.



| SPECIFICATIONS | | | | | | |
|-------------------|---------------------------|--|--|--|--|--|
| Available Wattage | 20W - 80W | | | | | |
| Available CCT | 3500K, 4000K, 5000K | | | | | |
| Efficacy Average | 122 LM/W - 134 LM/W | | | | | |
| Lumen Output | 2,207 LM - 10,560 LM | | | | | |
| Input Voltage | AC100-277V | | | | | |
| Input Frequency | 50/60HZ | | | | | |
| CRI | >80 | | | | | |
| Power Factor | 0.9 | | | | | |
| THD | >12% | | | | | |
| Working Temp | -5F to 115F (-20C to 45C) | | | | | |
| Lens | No Lens, Frosted | | | | | |
| IP Rating | IP20 | | | | | |
| Dimming | Yes | | | | | |
| Life Span (Hours) | >70,000 | | | | | |



LED Standard Wall Pack





PRODUCT FEATURES



Construction

Die-Cast aluminum housing with powder coat finish and prismatic lens.

Applications

- Factory
- Pedestrian lighting
- Security
- Storage
- Walkways
- Warehouse

Mounting

Surface mount

Warranty

7-Year Limited Product Warranty (Optional 10-Year Warranty available)

BENEFITS

- Suitable for replacing Metal Halide fixtures.
- Traditional shape helps maintain building aesthetics when replacing only a portion of existing wall packs, eliminating unwanted markings from the removal of older fixtures.
- Photocell sensor ready versions at 35W, 55W, 80W and 120W



| SPEC | IFICATIONS |
|-------------------|---------------------------|
| Available Wattage | 35W - 120W |
| Available CCT | 5000K |
| Efficacy Average | 125 LM/W |
| Lumen Output | 4,745 LM - 15,517 LM |
| Input Voltage | AC100-277V |
| Input Frequency | 50/60HZ |
| CRI | >80 |
| Power Factor | 0.9 |
| THD | >15% |
| Working Temp | -4F TO 113F (-20C TO 45C) |
| Lens | Striped |
| IP Rating | IP65 |
| Dimming | Yes |
| Life Span (Hours) | >70,000 |



CERTIFICATIONS



PRODUCT FEATURES



Construction

Die-cast aluminum housing with powder coat finish. UV stabilized polycarbonate lens.

Applications

- Car dealerships
- Factory
- Parking lot
- Playground
- Retail
- Warehouse
- Walkway

Mounting

- Knuckle Mount
- Trunnion Mount

Warranty

7-Year Limited Product Warranty (Optional 10-Year Warranty available)

BENEFITS

- The LED Small Flood is a high performance LED lighting solution designed with CCT Tunable functionality, optical versatility and a slim, low profile design.
- Rugged cast aluminum housing minimizes wind load requirements and features an integral, watertight LED driver compartment and high performance aluminum heat sinks.

LED Small Flood Light



| SPEC | |
|-------------------|----------------------------|
| Available Wattage | 15W - 50W |
| Available CCT | 3000K, 4000K, 5000K |
| Efficacy Average | 119 LM/W - 123 LM/W |
| Lumen Output | 3,484 LM - 6,089 LM |
| Input Voltage | AC100-277V |
| Input Frequency | 50/60HZ |
| CRI | >80 |
| Power Factor | 0.9 |
| THD | >10% |
| Working Temp | -30F to 113F (-30C to 45C) |
| Lens | Striped |
| IP Rating | IP65 |
| Dimming | Νο |
| Life Span (Hours) | >70,000 |

CPC RFP 24.5 Project Deliverables EIS



APPENDIX B: Installation Report with Labor.



| | otal Install | Rate | 787.50 | 206.25 | 187.50 62.50 | 168.75 | 00.006 | 1,237.50 | 412.50 | 18.75 | 318.75 | 150.00 | 75.00 | 75.00 | 600.00 | 37.50 | 3,375.00 | 2,250.00 | 2 475 00 | 000 | 37.50 262 50 | 112.50 | 6,975.00 | 300.00 | 75.00 | 00.061 | 150.00 | 112.50 | 06.211 | | 56.25 | 262.50 | 37.50 | 150.00 | 112.50 37 50 | 75.00 | 1,350.00 | 112.50 | 356.25 | 75.00 | 562.50 | | 1,050.00 | 75.00 | 112.50 | 37.50 | 56.25 | 75.00 | 37.50 | 225.00 | 300.00 | 18.75 | 150.00 | 37.50 | 37.50 | 37.50 | 1,125.00 | 6,412.50 | 337.50 | 56.25 412 50 | 337.50 | 37.50 | 150.00 | 1,537.50 318.75 | 1,500.00 | 225.00 75.00 | 37.50 |
|------------------|-----------------|------------------|-----------------------------------------|--------------------|------------------------------------------|--------------------|-----------------------------------------|--------------------|------------------------------------------|--------------------|----------------------------------------|--------------------|---------------------------------------|------------------------------------------|--------------------|--------------------|---------------------------------------------------|--------------------------|------------------------------------|---------------------|---------------------|--------------------------|--------------------------|--------------------------------------|--------------------------|------------------------------------------------------|--------------------------|--------------------------|------------------------------------------------------|--------------------------|--------------------------|--------------------------------------|---------------------|-------------------|--------------------------------------|--------------------|--------------------|----------------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------------------|-------------------|--------------------------|----------------------------------------|----------------------|-----------------------------------|----------------------------------|---------------------|----------------------|--------------------|---------------------|--------------------|------------------------------------------|------------------------------|------------------------------------|--------------------------|----------------------------------------------|------------------------------------|--------------------|------------------------------------|--------------------|------------------------------------------|-------------------|----------------------------------------|---------------------|
| | abor Rate T | per Unit | 18.75 | 18.75 | 18./5 6.25 | 18.75 | 18.75 | 18.75 | 6.25 | 18.75 | 18.75 | 18.75 | 18.75 | 18.75 | 18.75 | 18.75 | 112.50 NA | 112.50 | 112 50 | NA | 37.50 | 112.50 | 112.50 | 75.00 | 75.00 | 00.67 | 37.50 | 18.75 27.60 | 00.75 | | 56.25 | 37.50 | 37.50 | 75.00 | 112.50 37 50 | 18.75 | 75.00 | 18.75 | 18.75 | 75.00 | 112.50 | NA | 37.50 | 75.00 | 112.50 | 37.50 | 56.25 | 18.75 | 37.50 | 37.50 | 18.75 | 18.75 | 37.50 | 18.75 | 18.75 | 18.75 | 112.50 | 112.50 | NA 37.50 | 6.25 37 50 | 18.75 | 6.25 | 18.75 | 18.75 | 75.00 | 75.00 | 37.50 |
| | ATED LABOR | Hours | 10.50 | 2.75 | 2.50 | 2.25 | 12.00 | 16.50 | 5.50 17.00 | 0.25 | 4.25 | 2.00 | 1.00 | 24.50 | 8.00 | 0.50 | 45.00 | 30.00 | 33.00 | 8.99 | 0.50 | 1.50 | 93.00 | 4.00 | 1.00 | 2.00 | 2.00 | 1.50 | nc.1 | | 0.75 | 3.50 | 0.50 | 2.00 | 1.50 | 1.00 | 18.00 | 1.00 | 4.75 | 1.00 | 7.50 | | 14.00 | 1.00 | 1.50 | 16.00 | 0.75 | 1.00 | 0.50 | 3.00 | 4.00 | 0.25 | 2.00 | 0.50 | 2.75 | 0.50 | 15.00 | 85.50 | 4.50 | 0.75 | 4.50 | 1.50 | 2:00 | 20.50 | 20.00 | 3.00 | 0.50 |
| | ESTIM/ | linutes | 5 630 | 165 | 150 | 135 15 | 720 | 066 | 330 1.020 | 15 | 1,045 | 120 | 60 | 1,4/0 | 480 | 30 | 2,700 | 1,800 | 1 QRU | 0001 | 30 | 06 | 5,580 | 240 | 60 | 120 | 120 | 06 | 80 | | 45 | 012 | 30 | 120 | 30 | 60 | 1,080 | 00 | 285 | 60 | 450 | | 840 1 080 | 60 | 06 | 30 | 45 | 60 | 30 | 180 | 240 | 15 | 120 | 30 | 30 165 | 30 | 006 | 5,130 | 270 | 45 330 | 270 | 90 30 | 120 | 1,230 255 | 1,200 | 180 60 | 30 |
| | Minutes Tot | Fixture N | 5 15 | 15 | 15 5 | 15 15 | 15 | 15 F | 5 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 90 NA | 06 | UN NA | NA | 30 | 06 | 06 | 60 60 | 60 | 00 | 30 | 15 | 90 | | 45 | 30 15 | 30 | 60 | 30 | 15 | 60 | 15 | 15 | 60 | 60 | NA | 30 | 60 | 06 | 30 15 | 45 | 15 | 30 | 30 | 30 15 | 15 | 90 | 15 | 15 | 15 | 06 | 06 | 30 M | 530 | 15 | 5 15 | 15 | 15 | 60 | 60 | 30 |
| | Instal | antity per | 42 | 11 | 10 | 6 | 48 | 66 | 66 68 | 1 | 17 | 8 | 4 | 4 | 32 | 2 | 30 | 20 | 22 | - | 1 | | 62 | 4 | 1 | 7 | 4 | 9 | ° | | - 1 | / | | 2 | | - 4 | 18 | 4 9 | 19 | - 0 | 22 4 | | 28 | 1 | | 1 64 | - | 4 | - | 9 | y 16 | - c | 4 4 | 2 | 11 | 2 | 10 | 57 | 6 | 9 | 18 | - 2 | 8 | 82 17 | 20 | | |
| | | Qui | | | - | _ | | _ | - | | | | | | | 1001 | [80] | [80] | BUI | 8 | | [80] | [80] | - | | | | | | | | | | 1001 | [80] | | | | | 1001 | [00] | | | | [80] | | | | | | | 1001 | [00] | | | | 80] | [80] | - | | | | | | | | |
| | | Part Number | ATS-14.5W-4UN AES-RTST230 | AES-RTST230 | MES-R1S1124 MES-06243 | AES-RTST230 | AES-RISI 2230 | AES-RTST124 | MES-06243 MES-RTST230 | MES-RTST2230 | MES-RISI 230 MES-RTST 230 | AES-RTST460 | AES-RTST230 | MES-RISI 230 MES-RTST 230 | AES-RTST230 | MES-RTST230 | SL-UF 0A00-70C-R120-C(xt) Strong-Mation/Sensor | SL-UFOA00-70C-R120-C(xi) | strong-MotionSensor | Strong-MotionSensor | 7L-C030SLG4-30W-57K | SL-UFOA00-70C-R120-C(xi) | SL-UFOA00-70C-R120-C(xi) | otrong-wouldnoensor MES-05680 | MES-05680 | VIES-U5034 VA | rL-C040SLG4-40W-57K | MES-RTST230 | r L-UJJOLG4-JUVV-D/ K | A | MES-SWP02-55BA2-A-44 | rL-CU4USLG4-4UW-5/K | rL-C030SLG4-30W-57K | MES-05691 | SL-UFOA00-70C-R120-C(xi) | AES-RTST230 | MES-05691 | MES-RIS1400 MES-RTST230 | AES-RTST230 | MES-05680 | SL-UFOA00-70C-R120-C(xi) | Strong-MotionSensor | rL-C040SLG4-40W-57K | MES-05691 | SL-UFOA00-70C-R120-C(xi) | rt-cu4ustg4-4uw-5/K AES-RTST230 | MES-SWP02-55BA2-A-44 | MA MES-RTST230 | rL-C040SLG4-40W-57K | rt-c030SLG4-30W-57K | rt-cu4usc4440v-3/N | MES-RTST230 | 7L-C040SLG4-40W-57K | MES-RTST230 | MES-RISI 230 MES-RTST 460 | AES-RTST230 | SL-UFOA00-70C-R120-C(xi) | SL-UFOA00-70C-R120-C(xi) | otrong-Motion Sensor r/L-C030SLG4-30W-57K | 319-14.5W-40K | AES-RTST124 | MES-06243 AFS-RTST 230 | MES-RTST460 | AES-RTST124 AFS-RTST230 | MES-09109 | MES-09106 MES-09106 | rL-C040SLG4-40W-57K |
| buo | | Brand | verick N | Verick | verick h | verick N | verick | verick N | verick h | verick | verick N | verick | verick N | verick N | verick | verick | ong | ong | bug | ong Bro | 7 | buo | 5 Dug | verick N | verick N | Verick | uLumi | verick N | | | | verick N | | verick | ong S | verick | verick N | verick N | verick | verick | 5 Guo | ong 610 | uLumi verick | verick | | verick | | verick | uLumi | JL V | verick | verick N | uLumi | verick | verick h | verick | ona | buo | лг ЛГ | Bulbs.com / | verick | verick N | verick N | verick N | verick | verick Inverick | uLumi |
| Str | | iption | -277V Ma | -277V Ma | -2//V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | -277V Ma | V Str | 'V Str | -12 -12 | Str | 0120-277V MT | V Str | V Str | DK/100-277VMa | DK/100-277VMa | | V Yoi | -277V Ma | | NA | 277V | V 101 | 0120-277V MT | X/100-277V Ma | Str Vo | -277V Ma | 4/100-277V Ma | -277V Ma | -277V Ma | 0K/100-277VMa | - A | Str | -277V Ma | -277 Ma | V Str | -277V Ma | 277V V15 | -277V Ma | V Yoi | 0120-277V MT | -277V Ma | -277V Ma | | -277V Ma | -277V Ma | -277V Ma | V Str | -V | 0120-277V MT | V 35- | -277V Ma | Ma Ma | -277V Ma | -277V Ma | DK/200-480V Ma | 0K/200-480V Ma | V Yo |
| | | Solution Descr | trofit Kit/30W/120 | rofit Kit/30W/120 | crotit Kit/24W/12U Sensor | trofit Kit/30W/120 | rofit Kit/30W/120 | cofit Kit/24W/120 | sensor trofit Kit/30W/120 | rofit Kit/30W/120 | rofit Kit/30W/120 rofit Kit/30W/120 | rofit Kit/60W/120 | trofit Kit/30W/120 | trofit Kit/30W/120 hrofit Kit/30W/120 | trofit Kit/30W/120 | Trofit Kit/30W/120 | D/5000K/100-27 | D/5000K/100-27 | D/5000K/100-27 | | rnal Driver/5700 | D/5000K/100-27 | D/5000K/100-27 | hoebox/LED/500 | hoebox/LED/500 | | V/5700K/120-277 | rofit Kit/30W/120 | Inal Driver/o/ UN | | y/LED/55W/120- | V/5/UUK/120-2// | rnal Driver/5700 | oebox/LED/5000 | D/5000K/100-27 | trofit Kit/30W/120 | oebox/LED/5000 | rofit Kit/30W/120 | rofit Kit/30W/120 | hoebox/LED/500 | D/5000K/100-27 | | V/5700K/120-277 | oebox/LED/5000 | D/5000K/100-27 | V/5/UUK/120-2// trofit Kit/30W/120 | y/LED/55W/120- | trofit Kit/30W/120 | V/5700K/120-277 | rnal Driver/5700 | trofit Kit/60W/120 | rofit Kit/30W/120 | V/5700K/120-277 | trofit Kit/30W/120 | trofit Kit/60W/120 trofit Kit/60W/120 | trofit Kit/30W/120 | D/5000K/100-27 | D/5000K/100-27 | rnal Driver/5700 | 0K/100-277V V/5700K/120-277 | rofit Kit/24W/120 | Sensor rofit Kit/30W/120 | rofit Kit/60W/120 | crofit Kit/24W/120 rrofit Kit/30W/120 | hoebox/LED/500 | hoebox/LEU/500 hoebox/LED/500 | V/5700K/120-277 |
| | | Proposed 3 | A 19/LED/E31/4000 Linear/4 ft/LED/Re | Linear/4 ft/LED/Re | Linear/4 ft/LEU/Ke Mav RetroFit Occ 5 | Linear/4 ft/LED/Re | Linear/4 ft/LED/Re | Linear/4 ft/LED/Re | Mav KetroFit Ucc : Linear/4 ft/LED/Re | Linear/2 ft/LED/Re | Linear/4 ft/LEU/Re | Linear/8 ft/LED/Re | Linear/4 ft/LED/Re | Linear/4 Tt/LEU/Ke | Linear/4 ft/LED/Re | Linear/4 ft/LED/Re | Highbay/Round/LE Motion Sensor | Highbay/Round/LE | Motion Sensor, Highbav/Round/LE | Motion Sensor, | Corn Cob/LED/Inte | Highbay/Round/LE | Highbay/Round/LE | Motion Sensor, 300W/Area Light/S | 300W/Area Light/S | 150W/Area Lignivs NA | Corn Cob/LED/40/ | Linear/4 ft/LED/Re | Corn Coarleu/Inte NA | NA | Wall Mount/Securit | Corn Cob/LEU/40V | Corn Cob/LED/Inte | 60W/Area Light/Sh | Highbay/Round/LE | Linear/4 ft/LED/Re | 60W/Area Light/Sh | Linear/a Tt/LEU/Ke | Linear/4 ft/LED/Re | 300W/Area Light/S | Highbay/Round/LE | Motion Sensor, | Corn Cob/LED/40V | 60W/Area Light/Sh | Highbay/Round/LE | Corn CooxLEU/40V Linear/4 ft/LED/Re | Wall Mount/Securit | NA Linear/4 ft/LED/Re | Corn Cob/LED/40V NA | Corn Cob/LED/Inte | Linear/8 ft/LED/Re | Linear/4 ft/LED/Re | Corn Cob/LED/40V | Linear/4 ft/LED/Re | Linear/8 ft/LED/Re | Linear/4 ft/LED/Re | NA Highbav/Round/LE | Highbay/Round/LE | Motion Sensor, Corn Cob/LED/Inte | A 19/LED/E31/4000 | Linear/4 ft/LED/Re | Mav RetroFit Occ 9 | Linear/8 ft/LED/Re | Linear/4 ft/LED/Re | 300W/Area Light/S | 150W/Area Lighrvs 150W/Area Light/S | Corn Cob/LED/40V |
| | | Type | Lamp Retrofit Kit | Retrofit Kit | Ketrotit Kit Control | Retrofit Kit | Retrofit Kit | Retrofit Kit | Control Retrofit Kit | Retrofit Kit | Retrofit Kit | Retrofit Kit | Retrofit Kit | Retrofit Kit | Retrofit Kit | Retrofit Kit | Control | Fixture | Eixture | Control | Lamp | Fixture | Fixture | Fixture | Fixture | Keep | Lamp | Retrofit Kit | Keep | Keep | Fixture | Lamp Petrofit Kit | Lamp | Fixture | Fixture | Retrofit Kit | Fixture | Retrofit Kit | Retrofit Kit | Fixture | Fixture | Control | Lamp Retrofit Kit | Fixture | Fixture | Lamp Retrofit Kit | Fixture | Retrofit Kit | Lamp Keen | Lamp | Lamp Retrofit Kit | Retrofit Kit | Lamp | Retrofit Kit | Retrofit Kit | Retrofit Kit | Fixture | Fixture | Lamp | Lamp | Retrofit Kit | Control Retrofit Kit | Retrofit Kit | Retrofit Kit Retrofit Kit | Fixture | Fixture | Lamp |
| | | Voltage | | | | | | | | | | | | | | | | | | | | | | 277V | 277V | 7/17 | | | | | | | | | | | | | | 277V | | | | | | | | | AN | | | | | | | | | | | | | | | | 480V | 48UV 480V | |
| | | Quantity | 42 | 11 | 10 | 6 | - 48 | 99 | 89 | 1 | 103 | 8 | 4 90 | 98 | 32 | 2 2 | 99 | 20 | 22 | 1 | 1 | | 62 | 4 | + | 7 7 | 4 | 9 ° | ۰ ۲ | 1 | - 1 | · • | r 🖵 | 2 , | | 4 | - 18 | 4 C | 19 | c | 2 10 | | 28 | 1 | | - 19 | | - 4 | e | 99 | 9 16 | t c | 4 4 | 5 | 11 | 2 | ء 10 | 57 | 6 | 9 | 18 | 2 | 4 8 | 17 | 50 | .e + | . + |
| | STEM | Wattage | 09 | 09 | 32 | 09 | 09 | 32 | 60 | 66 | 90 | 110 | 09 | 90 | 09 | 60 | 234 | 234 | 734 | 5 | 75 | 288 | 234 | 1,078 | 1,078 | 453 | 208 | 117 | 19 | 40 | 208 | 208 | 75 | 208 | 208 | 117 | 208 | 115 | 117 | 1,078 | 234 | | 208 | 208 | 208 | 208 | 208 | 60 | 19 | 100 | 160 | 117 | 208 | 99 | 160 | 60 | 288 | 234 | 100 | 75 | 32 | 60 | 160 | 117 | 1,078 | 453 | 208 |
| | ING LIGHTING SY | Fixture | TR-T8-4 ft-32W-2 | WRP-T8-4 ft-32W-2 | SIR-18-4 It-32W-1 | TR-T8-4 ft-32W-2 | WRP-112-2 II-35W-2 WRP-T8-4 ft-32W-2 | STR-T8-4 ft-32W-1 | TR-T8-4 ft-32W-2 | WRP-T12-2 ft-35W-2 | WRP-18-4 It-32W-2 WRP-T8-4 ft-32W-2 | WRP-T8-8 ft-59W-2 | STR-T8-4 ft-32W-2 TB T0 4 ft 32W 3 | URP_T8-4 ft-32W-2 WRP_T8-4 ft-32W-2 | TR-T8-4 ft-32W-2 | TR-T8-4 ft-32W-2 | HB-15-4 ft-54W-4 | HB-T5-4 ft-54W-4 | HR-T5-4 #-54W-4 | | OTH-INC-75W-1 | HB-MH-250W-1 | HB-T5-4 ft-54W-4 | AL-MH-1000W-1 | AL-MH-1000W-1 | FL-LED-40W-1 | OTH-MH-175W-1 | VT-T5-4 ft-54W-2 | AL-LED-45W-1 | FL-LED-40W-1 | WP-MH-175W-1 | 01H-MH-1/5W-1 | AL-INC-75W-1 | FL-MH-175W-1 | HB-MH-175W-1 OTH-MH-175W-1 | VT-T5-4 ft-54W-2 | OTH-MH-175W-1 | VT-T5-4 ft-54W-2 | VT-T5-4 ft-54W-2 | AL-MH-1000W-1 | HB-T5-4 ft-54W-4 | | OTH-MH-175W-1 VT-T5-4 ft-54W-2 | FL-MH-175W-1 | HB-MH-175W-1 | UT-T5-4 ft-54W-2 | WP-MH-175W-1 | STR-LEU-30W-1 TR-T8-4 ft-32W-2 | NA DI -I ED-19W-1 | OTH-INC-100W-1 | STR-T8-8 ft-86W-2 | VT-T5-4 ft-54W-2 | OTH-MH-175W-1 | STR-T12-4 ft-34W-2 | STR-T8-8 ft-86W-2 | WRP-T8-4 ft-32W-2 | HB-MH-250W-1 | HB-T5-4 ft-54W-4 | OTH-INC-100W-1 | OTH-INC-75W-1 OTH-MH-175W-1 | STR-T8-4 ft-32W-1 | STR-TR-4 ft-32W-2 | STR-T8-8 ft-86W-2 | VT-T5-4 ft-54W-1 VT-T5-4 ft-54W-2 | AL-MH-1000W-1 | AL-MH-400W-1 AL-MH-400W-1 | OTH-MH-175W-1 |
| | EXIS | Space Name | Engineering Office | Engineering Office | EHS | EHS | EHS | Management Office | Management Office Management Office | Management Office | Management Office | Management Office | Quality Control Lab | Quality Control Lab | Shipping | Gatehouse & Scales | Warehouse B&G Warehouse B&G | Warehouse C&H | Warehouse C&H Warehouse D&F | Warehouse D&E | Warehouse D&E | Outside | Warehouse Aisle | vvarenouse Alsie Outside Building | Outside Building | Outside Building | Outside Building | Scribble Looding Dock | Loading Dock | Loading Dock | Loading Dock | MCC room | CW | CW | CW | CW | Manufacturer Floor | Manufacturer Floor | 7 Kiln MCC | 7 Wet | 7 Wet | 7 Wet | 7 Wet 7 Wet | 7 Dry | 7 Dry | 7 Dry | 7 Dry | 6 Dry A&B Office | 6 Dry Exterior Exterior Walls | Exterior Walls | 6 Dry Maintenance | 6 Dry Maintenance | 6 Dry Control Room | 6 Dry Control Room | 6 Dry Control Room | 6 Dry Control Room | warehouse Alsle Warehouse Alsle | Warehouse Aisle | warenouse Aisle Warehouse Aisle | Warehouse Aisle Warehouse Aisle | Warehouse Aisle | Warehouse Aisle Warehouse Aisle | Warehouse Aisle | Warehouse Aisle Warehouse Aisle | Parking & Roads | Parking & Koads Parking & Roads | Parking & Roads |
| Imerys Lompoc CA | | SL No. Area Name | 2 General Office | 3 General Office | 4 General Office 4(a) General Office | 5 General Office | 7 General Office | 8 General Office | 8(a) General Office 9 General Office | 10 General Office | 11 General Office | 13 General Office | 14 General Office | 15 General Office | 17 General Office | 18 General Office | 19 55 Warehouse | 20 55 Warehouse | 20(a) 55 Warehouse | 21(a) 55 Warehouse | 22 55 Warehouse | 24 55 Warehouse | 25 62 Warehouse | 26 55 Warehouse Exterior | 27 55 Warehouse Exterior | 28 55 Warehouse Exterior 29 55 Warehouse Exterior | 30 55 Warehouse Exterior | 31 55 Warehouse Exterior | 32 02 Warehouse Exterior 33 62 Warehouse Exterior | 34 62 Warehouse Exterior | 35 62 Warehouse Exterior | 30 Central Waste 37 Central Waste | 38 Central Waste | 39 Central Waste | 40 Central Waste 41 Central Waste | 42 Central Waste | 43 7 Kiln | 44 / Klin 45 7 Kiln | 46 7 Kiln | 47 7 Kiln | 40 / Mill 49 7 Kih | 49(a) 7 Kiln | 50 7 Kin 51 7 Kin | 52 7 Kih | 53 7 Kiln | 55 7 Kiln | 56 7 Kiln | 5/ 0 Kiln 58 6 Kiln | 59 6 Kiln 60 6 Kiln | 61 6 Kiln | 63 6 Kih | 64 6 Kih | 66 6 Kih | 67 6 Kiln | 69 6 Kiln | 70 6 Kiln 74 48 Manakanaa | 72 46 Warehouse | 73 46 Warehouse | 74 46 Warehouse | 75 46 Warehouse 76 46 Warehouse | 77 46 Warehouse | 77(a) 46 Warehouse | 79 46 Warehouse | 80 46 Warehouse 81 46 Warehouse | 82 Exterior | 83 Exterior 84 Exterior | 85 Exterior |

| <u>1</u> | erys Lompoc CA | | | | | | | | Strong | | | | | | | |
|---------------------------|-------------------------------|------------------------------|------------------------|---------|----------|---------|--------------|--------------------------------------------|--------------|-------------------------------|----------|-----------------|-------------------|--------------------------|--------------|---------------|
| | | EXIST | ING LIGHTING SYST | TEM | | | | | | | | | ESTI | MATED LABOR | | |
| | | | | Fixture | | | | | | | | Install Minutes | Total Install | Total Install La | bor Rate | Total Install |
| SL Nd | Area Name | Space Name | Fixture | Wattage | Quantity | Voltage | Type | Proposed Solution Description | Brand | Part Number | Quantity | per Fixture | Minutes | Hours | oer Unit | Rate |
| 158 | Maintenance Shops | Hazardous Waste Stagir | -NA | | | AN | Lamp | Corn Cob/LED/40W/5700K/120-277V | YouLumi | YL-C040SLG4-40W-57K | t- | 30 | 30 | 0.50 | 37.50 | 37.50 |
| 159 | Maintenance Shops | Breakroom | STR-T8-4 ft-32W-1 | 32 | 12 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | Maverick | MES-RTST124 | 12 | 15 | 180 | 3.00 | 18.75 | 225.00 |
| 159(a, |) Maintenance Shops | Breakroom | | | | | Control | Mav RetroFit Occ Sensor | Maverick | MES-06243 | 12 | 2 | 60 | 1.00 | 6.25 | 75.00 |
| 160 | Maintenance Shops | Breakroom | WRP-T5-4 ft-54W-2 | 117 | 16 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | AES-RTST230 | 16 | 15 | 240 | 4.00 | 18.75 | 300.00 |
| 161 | Erection & Repair | E&R Office | DEC-LED-19W-3 | 57 | 2 | | Lamp | A 19/LED/E 30/4000K/100-277V | 35-Bulbs.com | 319-9.5W-40K | 2 | 5 | 30 | 0.50 | 6.25 | 12.50 |
| 162 | Erection & Repair | E&R Office | STR-T8-4 ft-32W-1 | 32 | 14 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | Maverick | AES-RTST124 | 14 | 15 | 210 | 3.50 | 18.75 | 262.50 |
| 162(a) |) Erection & Repair | E&R Office | | | | | Control | May RetroFit Occ Sensor | Maverick | MES-06243 | 14 | 2 | 20 | 1.17 | 6.25 | 87.50 |
| 163 | Erection & Repair | E&R Office | TR-T8-4 ft-32W-2 | 60 | 14 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | AES-RTST230 | 14 | 15 | 210 | 3.50 | 18.75 | 262.50 |
| 164 | Erection & Repair | E&R Office | VT-T5-4 ft-54W-2 | 117 | - | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | AES-RTST230 | - | 15 | 15 | 0.25 | 18.75 | 18.75 |
| 165 | Erection & Repair | E&R Office | WRP-T8-4 ft-32W-2 | 60 | 20 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | AES-RTST230 | 20 | 15 | 300 | 5.00 | 18.75 | 375.00 |
| 166 | Erection & Repair | Welding Shop | HB-T5-4 ft-54W-4 | 234 | 34 | | Fixture | Highbay/Round/LED/5000K/100-277V | Strong | SL-UFOA00-70C-R120-C(xi) [80] | 34 | 06 | 3,060 | 51.00 | 112.50 | 3,825.00 |
| 166(a, |) Erection & Repair | Welding Shop | | | | | Control | Motion Sensor, | Strong | Strong-MotionSensor | | NA | | | AN | |
| 167 | Erection & Repair | Welding Shop | STR-T8-4 ft-32W-1 | 32 | 9 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | Maverick | MES-RTST124 | 9 | 15 | 06 | 1.50 | 18.75 | 112.50 |
| 167(a, |) Erection & Repair | Welding Shop | | | | | Control | Mav RetroFit Occ Sensor | Maverick | MES-06243 | 9 | 2 | 30 | 0.50 | 6.25 | 37.50 |
| 168 | Erection & Repair | Welding Shop | VT-T5-4 ft-54W-2 | 117 | 3 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | MES-RTST230 | ę | 15 | 45 | 0.75 | 18.75 | 56.25 |
| 169 | Erection & Repair | DXP | HB-T5-4 ft-54W-4 | 234 | 25 | | Fixture | Highbay/Round/LED/5000K/100-277V | Strong . | SL-UFOA00-70C-R120-C(xi) [80] | 25 | 06 | 2,250 | 37.50 | 112.50 | 2,812.50 |
| 169(a, |) Erection & Repair | DXP | | | | | Control | Motion Sensor, | Strong | Strong-MotionSensor | | NA | | | AN | |
| 170 | Erection & Repair | DXP | STR-T12-4 ft-34W-2 | 99 | 2 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | MES-RTST230 | 7 | 15 | 30 | 0.50 | 18.75 | 37.50 |
| 171 | Erection & Repair | DXP | STR-T8-4 ft-32W-1 | 32 | 40 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | Maverick | AES-RTST124 | 40 | 15 | 009 | 10.00 | 18.75 | 750.00 |
| 171(a, |) Erection & Repair | DXP | | | | | Control | Mav RetroFit Occ Sensor | Maverick | MES-06243 | 92 | £ | 460 | 7.67 | 6.25 | 575.00 |
| 172 | Erection & Repair | DXP | STR-T8-4 ft-32W-1 | 32 | 52 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | Maverick | AES-RTST124 | 52 | 15 | 780 | 13.00 | 18.75 | 975.00 |
| 172(a, |) Erection & Repair | DXP | | | | | Control | Mav RetroFit Occ Sensor | Maverick | MES-06243 | 92 | 2 | 460 | 7.67 | 6.25 | 575.00 |
| 173 | Erection & Repair | DXP | TR-T8-4 ft-32W-2 | 60 | œ | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | MES-RTST230 | œ | 15 | 120 | 2.00 | 18.75 | 150.00 |
| 174 | Erection & Repair | E&R Exterior | WP-MH-250W-1 | 288 | 9 | | Fixture | 75W/Area Light/Shoebox/LED/5000K/100-277V | / Maverick | MES-05691 | 9 | 60 | 360 | 6.00 | 75.00 | 450.00 |
| 175 | R&D building | Offices | TR-T8-4 ft-32W-2 | 60 | 104 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | MES-RTST230 | 104 | 15 | 1,560 | 26.00 | 18.75 | 1,950.00 |
| 176 | R&D building | Offices | WRP-T12-2 ft-35W-2 | 66 | 7 | | Retrofit Kit | Linear/2 ft/LED/Retrofit Kit/30W/120-277V | Maverick | MES-RTST2230 | 7 | 15 | 105 | 1.75 | 18.75 | 131.25 |
| 177 | R&D building | Offices | WRP-T8-4 ft-32W-2 | 60 | 19 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | MES-RTST230 | 19 | 15 | 285 | 4.75 | 18.75 | 356.25 |
| 178 | R&D building | Offices | WRP-T8-4 ft-32W-2 | 60 | 9 | | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | Maverick | MES-RTST230 | 9 | 15 | 90 | 1.50 | 18.75 | 112.50 |
| 179 | R&D building | R&D Exterior | WP-INC-75W-1 | 75 | 3 | | Fixture | 20W/Wallpack/Decorative/LED/5000K/100-277/ | V Maverick | MES-05052 | 3 | 45 | 135 | 2.25 | 56.25 | 168.75 |
| 180 | R&D building | R&D Exterior | WP-MH-175W-1 | 208 | 7 | | Fixture | Wall Mount/Security/LED/55W/120-277V | | MES-SWP02-55BA2-A-44 | 7 | 45 | 315 | 5.25 | 56.25 | 393.75 |
| | | | | | | | | | | Total Treatments: | 2,943 | Total | Est. Labor Hours: | 1,269.67 Pro | ject Labor: | 95,200.00 |
| | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | Fixture Replacements | 523 | | | | Lift Rental | 7,000.00 |
| | | | | | | | | | | Lamp Replacements | 157 | | | Mis | c Materials | 1,500.00 |
| PREINS | STALL WALKTHROUGH | NOTES; | | | | | | | | Fixture Retrofits | 1704 | | Labor & Mater | rials - 3 Fixtures Silic | ate Exterior | 1,300.00 |
| | | | | | | | | | | Cotrols/Sensor Installs | 559 | | | | \$ | 105,000.00 |
| Revis | w labor and materials net | eded for 3 new fixtures out: | side of Silicate Bldg. | | | | | | | | | | | | | |
| 2. Detei | mine site for storage cont | ex. | | | | | | | | | | | | | | |

CPC RFP 24.5 Project Deliverables EIS



APPENDIX C: EIS Project Status Report – COMPLETION WALKTHROUGH version and the Installation Report with the calculated energy savings per fixture per area with PG&E applicable rebate.



EIS Project Status Report Overall Status: complete

Project Name: Imerys Performance Minerals America – Lompoc CA – LED Upgrades PO 8302034720 (AP8302)

March 07th, 2022

Status Code Legend

- On Track: Project is on schedule
- At Risk: Milestones missed but date intact
- High Risk: At risk, with a high risk of going off track
- Off Track: Date will be missed if action not taken
- Completed

The project is **completed FRIDAY 03/04/22**, total of 59 calendar days after mobilization, and final inspection generated this summary:

- All LED fixtures and bulbs included on the SOW are installed and working by 03/04/2022
- Complying with the CSA, mutually signed between Imerys and EIS, final inspection is performed by project completion.
- Final Inspection Walkthrough, performed by EIS and Imerys authorized representative is concluded, and project is accepted by customer.
 - PO SOW finished & LED upgrades and controls are operating as expected

Warehouse 55







- Gatehouse & Scales
- 55 Warehouse (Including Exterior)
- 62 Warehouse (Including Exterior)
- Central Waste
- 7 Kiln (MCC, Operation areas, 7 Wet & 7 Dry)
- 6 Kiln (Exterior, Offices, Control Room & Maintenance)
- 46 Warehouse
- Exterior (Parking & Roads)
- Specialties
 - 2266 Warehouse
 - 2266 WH Exterior
 - Specialties WH
 - Specialties WH Exterior
 - Contractor Trailer
- Silicate plant
 - Silicate Maintenance Shop
 - Processing Area
 - Silicate Building Exterior
 - Silicate Warehouse
 - Silicate Tanks Offices
- Celpure Plant (Including Exterior)
- Breakroom building and lockers
- Q&M (Office, maintenance & Greenhouse)
 - Maintenance Shops
 - Heavy Duty Garage
 - Light Duty Garage
 - Electric Shop
 - Carpenter Shop
 - Carpenter Shop
 - Utility Shop
 - Paint Storage
 - Hazardous Waste Staging
 - Breakroom
 - Erection & Repair
 - Office
 - Welding Shop
 - DXP
 - E&R ExteriorR&D building

| Milestones planned this week, but not achieved with variance: | Removal of the storage Connex is in effect 03/07/2022 Final disposal of striped-off/replaced fixtures (removing them from the site) is in effect before EOW 03/11/2022 |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Milestones planned for next week: | N/A |

| Areas/questions for discussion: | | |
|-----------------------------------------------|-----|--|
| Last week's issues forwarded to this week: | N/A | |

| | | | In | nerys Lon | npoc | CA - Option | 3 | | |
|-------------|------------------------|---------------------|----------------------------------------|-----------|----------|----------------------|------------------------------------------------------------------------------------------|-----------------------------|------------|
| | | EXISTING LIGHT | ING SYSTEM | | | | | | |
| SL | Area Name | Space Name | Existing Fixture | Fixture | Qty | Туре | Proposed Solution Description | Part Number | Qty |
| No. | | | | Wattage | | | | | |
| 1 | General Office | Engineering Office | OTH-INC-75W-1 | 75 | 1 | Lamp Detrofit Kit | A19/LED/E31/4000K/100-277V | A19-14.5W-40K | 1 |
| 2 | General Office | Engineering Office | IR-18-4 ft-32W-2 WRP-T8-4 ft-32W-2 | 60 | 42 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 MES-RTST230 | 42 |
| 4 | General Office | EHS | STR-T8-4 ft-32W-1 | 32 | 10 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 10 |
| 4(a) | General Office | EHS | | | | Control | Mav RetroFit Occ Sensor | MES-06243 | 10 |
| 5 | General Office | EHS | TR-T8-4 ft-32W-2 | 60 | 9 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 9 |
| 6 | General Office | EHS | WRP-112-2 π-35W-2 WRP-T8-4 ft-32W-2 | 99 | 1 | Retrofit Kit | Linear/2 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST2230 MES-RTST230 | 1 |
| 8 | General Office | Management Office | STR-T8-4 ft-32W-1 | 32 | 66 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 66 |
| 8(a) | General Office | Management Office | | | | Control | Mav RetroFit Occ Sensor | MES-06243 | 66 |
| 9 | General Office | Management Office | TR-T8-4 ft-32W-2 | 60 | 68 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 68 |
| 10 | General Office | Management Office | WRP-112-2 ft-35W-2 | 99 | 103 | Retrofit Kit | Linear/2 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST2230 MES-RTST230 | 103 |
| 12 | General Office | Management Office | WRP-T8-4 ft-32W-2 | 60 | 17 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 17 |
| 13 | General Office | Management Office | WRP-T8-8 ft-59W-2 | 110 | 8 | Retrofit Kit | Linear/8 ft/LED/Retrofit Kit/60W/120-277V | MES-RTST460 | 8 |
| 14 | General Office | Quality Control Lab | STR-T8-4 ft-32W-2 | 60 | 4 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 4 |
| 15 | General Office | Quality Control Lab | WRP-T8-4 ft-32W-2 | 60 | 98 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 98 |
| 17 | General Office | Shipping | TR-T8-4 ft-32W-2 | 60 | 32 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 32 |
| 18 | General Office | Gatehouse & Scales | TR-T8-4 ft-32W-2 | 60 | 2 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 2 |
| 19 | 55 Warehouse | Warehouse B&G | HB-T5-4 ft-54W-4 | 234 | 30 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 30 |
| 19(a) 20 | 55 Warehouse | Warehouse B&G | HB-T5-4 ft-54W-4 | 234 | 20 | Eixture | Highbay/Round/LED/5000K/100-277V | Strong-MotionSenso | t 20 |
| 20(a) | 55 Warehouse | Warehouse C&H | | 201 | 20 | Control | Motion Sensor, | Strong-MotionSenso | |
| 21 | 55 Warehouse | Warehouse D&E | HB-T5-4 ft-54W-4 | 234 | 22 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 22 |
| 21(a) | 55 Warehouse | Warehouse D&E | | 75 | 4 | Control | Motion Sensor, | Strong-MotionSenso | c d d |
| 22 | 55 Warehouse | Vvarenouse D&E | OTH-INC-75W-1 OTH-INC-75W-1 | 75 | 1 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | / 1 |
| 24 | 55 Warehouse | Outside | HB-MH-250W-1 | 288 | 1 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 1 |
| 25 | 62 Warehouse | Warehouse Aisle | HB-T5-4 ft-54W-4 | 234 | 62 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 62 |
| 25(a) | 62 Warehouse | Warehouse Aisle | | 4.070 | | Control | Motion Sensor, | Strong-MotionSenso | c |
| 26 | 55 Warehouse Exterior | Outside Building | AL-MH-1000W-1 | 1,078 | 4 | Fixture | 300W/Area Light/Shoebox/LED/5000K/100-277/ 300W/Area Light/Shoebox/LED/5000K/100-277/ | MES-05680 | 4 |
| 28 | 55 Warehouse Exterior | Outside Building | AL-MH-400W-1 | 453 | 2 | Fixture | 150W/Area Light/Shoebox/LED/5000K/100-277 | MES-05694 | 2 |
| 29 | 55 Warehouse Exterior | Outside Building | FL-LED-40W-1 | 40 | 2 | Keep | NA | NA | |
| 30 | 55 Warehouse Exterior | Outside Building | OTH-MH-175W-1 | 208 | 4 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | / 4 |
| 31 | 55 Warehouse Exterior | Scribble | VI-15-4 π-54W-2 ΔI-IED-19W-1 | 117 | 6 | Retrotit Kit | Linear/4 ft/LED/Retroit Kit/30W/120-277V | MES-RTST230 | 0 |
| 33 | 62 Warehouse Exterior | Loading Dock | AL-LED-45W-1 | 45 | 1 | Keep | NA | NA | |
| 34 | 62 Warehouse Exterior | Loading Dock | FL-LED-40W-1 | 40 | 1 | Keep | NA | NA | |
| 35 | 62 Warehouse Exterior | Loading Dock | WP-MH-175W-1 | 208 | 1 | Fixture | Wall Mount/Security/LED/55W/120-277V | MES-SWP02-55BA | 4 1 |
| 36 | Central Waste | MCC room | VT-T5-4 ft-54W-2 | 208 | 1 | Lamp Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | |
| 38 | Central Waste | CW | AL-INC-75W-1 | 75 | 1 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | V 1 |
| 39 | Central Waste | CW | FL-MH-175W-1 | 208 | 2 | Fixture | 60W/Area Light/Shoebox/LED/5000K/100-277V | MES-05691 | 2 |
| 40 | Central Waste | CW | HB-MH-175W-1 | 208 | 1 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 1 |
| 41 | Central Waste | CW | VT-T5-4 ft-54W-2 | 208 | 1 | Lamp Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 4 |
| 43 | 7 Kiln | Manufacturer Floor | OTH-MH-175W-1 | 208 | 18 | Fixture | 60W/Area Light/Shoebox/LED/5000K/100-277V | MES-05691 | 18 |
| 44 | 7 Kiln | Manufacturer Floor | OTH-T12-8 ft-60W-2 | 115 | 4 | Retrofit Kit | Linear/8 ft/LED/Retrofit Kit/60W/120-277V | MES-RTST460 | 4 |
| 45 | 7 Kiln | Manufacturer Floor | VT-T5-4 ft-54W-2 | 117 | 6 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 6 |
| 40 | 7 Kiln 7 Kiln | 7 KIIN MCC 7 Wet | VI-15-4 π-54VV-2 | 1 078 | 19 | Fixture | Linear/4 tt/LED/Retrotit Kit/30W/120-277V 300W/Area Light/Shoebox/LED/5000K/100-277V | MES-RTST230 MES-05680 | 19 |
| 48 | 7 Kiln | 7 Wet | HB-MH-250W-1 | 288 | 2 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 2 |
| 49 | 7 Kiln | 7 Wet | HB-T5-4 ft-54W-4 | 234 | 5 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 5 |
| 49(a) | 7 Kiln | 7 Wet | | 209 | 20 | Control | Motion Sensor, | Strong-MotionSenso | c vl oo |
| 50 | 7 Kiln | 7 Wet | VT-T5-4 ft-54W-2 | 200 | 20 72 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 72 |
| 52 | 7 Kiln | 7 Dry | FL-MH-175W-1 | 208 | 1 | Fixture | 60W/Area Light/Shoebox/LED/5000K/100-277V | MES-05691 | 1 |
| 53 | 7 Kiln | 7 Dry | HB-MH-175W-1 | 208 | 1 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | : 1 |
| 54 | 7 Kiln | 7 Dry | OTH-MH-175W-1 | 208 | 1 | Lamp Detrofit Kit | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | / 1 |
| 56 | 7 Kiln | 7 Dry 7 Dry | WP-MH-175W-1 | 208 | 04 | Fixture | Wall Mount/Security/LED/55W/120-277V | MES-SWP02-55BA | 04 |
| 57 | 6 Kiln | 6 Dry A&B Office | STR-LED-35W-1 | 35 | 1 | Keep | NA | NA | |
| 58 | 6 Kiln | 6 Dry A&B Office | TR-T8-4 ft-32W-2 | 60 | 4 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 4 |
| 59 | 6 Kiln | 6 Dry Exterior | NA | 40 | 0 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | / 1 |
| 61 | 6 Kiln | Exterior Walls | OTH-INC-100W-1 | 100 | 6 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | 6 |
| 62 | 6 Kiln | Exterior Walls | OTH-MH-175W-1 | 208 | 9 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | / 9 |
| 63 | 6 Kiln | 6 Dry Maintenance | STR-T8-8 ft-86W-2 | 160 | 16 | Retrofit Kit | Linear/8 ft/LED/Retrofit Kit/60W/120-277V | MES-RTST460 | 16 |
| 64 | 6 Kiln | 6 Dry Maintenance | VT-T5-4 ft-54W-2 | 117 | 1 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 1 |
| 66 | 6 Kiln | 6 Dry Control Room | HB-IMH-250VV-1 | 288 | 2 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-0F0A00-70C-R | |
| 67 | 6 Kiln | 6 Dry Control Room | STR-T12-4 ft-34W-2 | 66 | 2 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 2 |
| 68 | 6 Kiln | 6 Dry Control Room | STR-T8-4 ft-32W-2 | 60 | 2 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 2 |
| 69 | 6 Kiln | 6 Dry Control Room | STR-T8-8 ft-86W-2 | 160 | 11 | Retrofit Kit | Linear/8 ft/LED/Retrofit Kit/60W/120-277V | MES-RTST460 | 11 |
| 70 | 6 Kiln 46 Warebouse | 6 Dry Control Room | WRP-18-4 ft-32W-2 | 60 | 2 | Retrofit Kit | Linear/4 tt/LED/Retrotit Kit/30W/120-277V | MES-RIST230 | 2 |
| 72 | 46 Warehouse | Warehouse Aisle | HB-MH-250W-1 | 288 | 10 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 10 |
| 73 | 46 Warehouse | Warehouse Aisle | HB-T5-4 ft-54W-4 | 234 | 57 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 57 |
| 73(a) | 46 Warehouse | Warehouse Aisle | OTH NO 1000 | | | Control | Motion Sensor, | Strong-MotionSenso | c d |
| 74 | 46 Warehouse | Warehouse Aisle | OTH-INC-100W-1 | 100 | 9 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | / 9 |
| 76 | 46 Warehouse | Warehouse Aisle | OTH-MH-175W-1 | 208 | 11 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | y 11 |
| 77 | 46 Warehouse | Warehouse Aisle | STR-T8-4 ft-32W-1 | 32 | 18 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 18 |
| 77(a) | 46 Warehouse | Warehouse Aisle | | | | Control | May RetroEit Occ Sensor | MES-06243 | 18 |

| | | Im | erys Lon | npoc | CA - Option 3 | | | |
|--------------------------|----------------------------|---------------------|----------|------|-------------------------|--------------------------------------------------------------------------------|--------------------------|-----|
| | EXISTING LIGHTI | NG SYSTEM | | | | | | |
| SL Area Name | Space Name | Existing Fixture | Fixture | Qty | Туре | Proposed Solution Description | Part Number | Qty |
| No. | | | Wattage | | 3 1 | -p p | | |
| 78 46 Warehouse | Warehouse Aisle | STR-T8-4 ft-32W-2 | 60 | 2 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 2 |
| 79 46 Warehouse | Warehouse Aisle | STR-T8-8 ft-86W-2 | 160 | 8 | Retrofit Kit | Linear/8 ft/LED/Retrofit Kit/60W/120-277V | MES-RTST460 | 8 |
| 80 46 Warehouse | Warehouse Aisle | VT-T5-4 ft-54W-1 | 64 | 82 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 82 |
| 81 46 Warehouse | Vvarenouse Alsie | VI-15-4 II-54VV-2 | 117 | 17 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30VV/120-277V | MES-RTST230 | 17 |
| 83 Exterior | Parking & Roads | AL-MH-1000W-1 | 453 | 20 | Fixture | 150W/Area Light/Shoebox/LED/5000K/200-480 | MES-09109 | 20 |
| 84 Exterior | Parking & Roads | AL-MH-400W-1 | 453 | 1 | Fixture | 150W/Area Light/Shoebox/LED/5000K/200-480 | MES-09106 | 1 |
| 85 Exterior | Parking & Roads | OTH-MH-175W-1 | 208 | 1 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | 1 |
| 86 Exterior | Parking & Roads | PGR-MH-400W-1 | 453 | 2 | Fixture | 150W/Area Light/Shoebox/LED/5000K/200-480 | MES-09106 | 2 |
| 87 Specialties | 2266 Warehouse | HB-MH-250W-1 | 288 | 1 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 1 |
| 88 Specialties | 2266 Warehouse | HB-15-4 ft-54W-4 | 234 | 8 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 8 |
| 89 Specialties | 2266 Warehouse | STR-T12-4 ft-34W-2 | 66 | 6 | Retrofit Kit | linear/4 ft/LED/Retrofit Kit/30\//120-277\/ | MES-RTST230 | 6 |
| 90 Specialities | 2266 Warehouse | STR-T8-4 ft-32W-1 | 32 | 54 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 54 |
| 90(a) Specialties | 2266 Warehouse | | | | Control | Mav RetroFit Occ Sensor | MES-06243 | 54 |
| 91 Specialties | 2266 Warehouse | STR-T8-4 ft-32W-2 | 60 | 1 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 1 |
| 92 Specialties | 2266 Warehouse | TR-T8-4 ft-32W-2 | 60 | 16 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 16 |
| 93 Specialties | 2266 WH Exterior | AL-INC-75W-1 | 75 | 3 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | 3 |
| 94 Specialties | 2266 WH Exterior | AL-MH-1000VV-1 | 1,078 | 1 | Fixture | 300W/Area Light/Shoebox/LED/5000K/100-27/ | MES-05680 | 1 |
| 96 Specialties | 2266 WH Exterior | OTH-INC-75W-1 | 75 | 2 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | 2 |
| 97 Specialties | 2266 WH Exterior | OTH-MH-175W-1 | 208 | 2 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | 2 |
| 98 Specialties | 2266 WH Exterior | WP-MH-175W-1 | 208 | 1 | Fixture | Wall Mount/Security/LED/55W/120-277V | MES-SWP02-55BA | 1 |
| 99 Specialties | Specialties WH | HB-T5-4 ft-54W-4 | 234 | 19 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 19 |
| 99(a) Specialties | Specialties WH | | | | Control | Motion Sensor, | Strong-MotionSenso | : |
| 100 Specialties | Specialties WH | OTH-MH-175W-1 | 208 | 2 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | 2 |
| 101 Specialties | Specialties WH | STR-18-4 ft-32W-1 | 32 | 10 | Retrofit Kit | Linear/4 tt/LED/Retrofit Kit/24W/120-277V | MES-RISI124 | 10 |
| 101(a) Specialties | Specialties WH | W/D MH 175W/ 1 | 208 | 2 | Eixture | Wall Mount/Security/LED/55W//120.277V | MES-06243 | 10 |
| 102 Specialities | Specialties WH Exterior | AL-LED-18W-1 | 18 | 2 | Keen | NA | NA | 2 |
| 104 Specialties | Specialties WH Exterior | FL-INC-65W-1 | 65 | 3 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | 3 |
| 105 Specialties | Specialties WH Exterior | OTH-INC-100W-1 | 100 | 16 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | 16 |
| 106 Specialties | Contractor Trailer | WRP-T8-4 ft-32W-2 | 60 | 4 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 4 |
| 107 Silicate plant | Silicate Maintenance Sh | STR-T8-4 ft-32W-1 | 32 | 26 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 26 |
| 107(a) Silicate plant | Silicate Maintenance Sh | | | | Control | Mav RetroFit Occ Sensor | MES-06243 | 26 |
| 108 Silicate plant | Silicate Maintenance Sh | STR-T8-4 ft-32W-2 | 60 | 3 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 3 |
| 109 Silicate plant | Silicate Maintenance Sh | WRP-18-8 ft-59W-2 | 110 | 4 | Retrofit Kit | Linear/8 ft/LED/Retrofit Kit/60W/120-277V | MES-RIS1460 | 4 |
| 110 Silicate plant | Processing Area | HB-MH-175W/-1 | 1,076 | 3 | Fixture | S00W/Area Light/Sh0eb0x/LED/S000K/100-277V Highbay/Round/LED/S000K/100-277V | SL-UEOA00-70C-R | 3 |
| 112 Silicate plant | Processing Area | HB-T5-4 ft-54W-4 | 200 | 1 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 1 |
| 112(a) Silicate plant | Processing Area | | 204 | | Control | Motion Sensor. | Strong-MotionSenso | |
| 113 Silicate plant | Processing Area | OTH-INC-75W-1 | 75 | 3 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | 3 |
| 114 Silicate plant | Processing Area | OTH-MH-175W-1 | 208 | 2 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | 2 |
| 115 Silicate plant | Processing Area | OTH-MH-175W-1 | 208 | 2 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | 2 |
| 116 Silicate plant | Processing Area | STR-T8-4 ft-32W-1 | 32 | 36 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 36 |
| 116(a) Silicate plant | Processing Area | | 117 | 22 | Control Retrofit Kit | May RetroFit Occ Sensor | MES-06243 | 36 |
| 118 Silicate plant | Processing Area | WP-MH-250W-1 | 288 | 7 | Fixture | Wall Mount/Security/LED/80W/120-277V | MES-SWP02-80BA | 22 |
| 119 Silicate plant | Silicate Building Exterior | NA | 200 | ' | Fixture | 60W/Area Light/Shoebox/LED/5000K/100-277V | MES-05691 | 3 |
| 120 Silicate plant | Silicate Building Exterior | WP-MH-175W-1 | 208 | 2 | Fixture | Wall Mount/Security/LED/55W/120-277V | MES-SWP02-55BA | 2 |
| 121 Silicate plant | Silicate Warehouse | HB-T5-4 ft-54W-4 | 234 | 20 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 20 |
| 121(a) Silicate plant | Silicate Warehouse | | | | Control | Motion Sensor, | Strong-MotionSenso | |
| 122 Silicate plant | Silicate Warehouse | VT-T5-4 ft-54W-2 | 117 | 28 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 28 |
| 123 Silicate plant | Silicate Tanks Offices | STR-112-4 ft-34W-2 | 66 | 4 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RISI230 | 4 |
| 124 Silicate plant | Silicate Tanks Offices | 51R-18-4 II-32VV-1 | 32 | 30 | Control | Linear/4 tt/LED/Retrotit Kit/24W/120-2/7V | MES-R151124 MES 06243 | 30 |
| 125 Silicate plant | Silicate Tanks Offices | TR-T8-4 ft-32W-2 | 60 | 12 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 12 |
| 126 Silicate plant | Silicate Tanks Offices | WP-MH-175W-1 | 208 | 1 | Fixture | Wall Mount/Security/LED/55W/120-277V | MES-SWP02-55BA | 1 |
| 127 Silicate plant | Silicate Tanks Offices | WRP-T8-4 ft-32W-2 | 60 | 8 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 8 |
| 128 Celpure Plant | Celpure | HB-T5-4 ft-54W-4 | 234 | 36 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 36 |
| 128(a) Celpure Plant | Celpure | 0711111111111111111 | | _ | Control | Motion Sensor, | Strong-MotionSensc | |
| 129 Celpure Plant | Celpure | UIH-MH-175W-1 | 208 | 8 | Lamp Detrofit 1/34 | Corn Cob/LED/40W/5700K/120-277V | YL-CU40SLG4-40W | 8 |
| 130 Celpure Plant | Celpure | 51R-18-4 II-32VV-2 | 60 | 16 | Control | Linear/4 tt/LED/Retrotit Kit/3000/120-2770 | MES-R151230 | 16 |
| 131 Celpure Plant | Celpure | VT-T5-4 ft-54W-2 | 117 | 49 | Retrofit Kit | l inear/4 ft/I ED/Retrofit Kit/30W//120-277\/ | MES-RTST230 | 49 |
| 132 Celpure Plant | Celpure | WP-MH-250W-1 | 288 | 2 | Fixture | Wall Mount/Security/LED/80W/120-277V | MES-SWP02-80BA | 2 |
| 133 Celpure Plant | Celpure Exterior | AL-MH-400W-1 | 453 | 2 | Fixture | 150W/Area Light/Shoebox/LED/5000K/100-277 | MES-05694 | 2 |
| 134 Lockers | Breakroom Building | STR-T8-4 ft-32W-2 | 60 | 10 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 10 |
| 135 Lockers | Breakroom Building | TR-T8-4 ft-32W-2 | 60 | 15 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 15 |
| 136 Lockers | Breakroom Building | WRP-T8-4 ft-32W-2 | 60 | 5 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 5 |
| 137 Q&M | Q&M Office | TR-T8-4 ft-32W-2 | 60 | 50 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 50 |
| 138 Q&M | Q&M Maintenance | STR-18-4 TE-32W-1 | 32 | 15 | Retrofit Kit | Linear/4 tt/LED/Retrotit Kit/24W/120-277V | MES-RIS1124 | 15 |
| 139 QQIVI | Greenhouse | 110-10-4 IL-04VV-4 | 234 | 0 | Control | Ingriday/Round/LED/2000R/100-277V | Strong-MotionSense | 0 |
| 140 Q&M | Q&M-Maintenance | HB-T5-4 ft-54W-4 | 234 | 9 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 9 |
| 140(a)Q&M | Q&M-Maintenance | | 204 | Ť | Control | Motion Sensor, | Strong-MotionSensc | |
| 141 Maintenance Shops | Heavy Duty Garage | AL-MH-1000W-1 | 1,078 | 9 | Fixture | 300W/Area Light/Shoebox/LED/5000K/100-277 | MES-05680 | 9 |
| 142 Maintenance Shops | Heavy Duty Garage | HB-T5-4 ft-54W-4 | 234 | 14 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 14 |
| 142(a)Maintenance Shops | Heavy Duty Garage | | | | Control | Motion Sensor, | Strong-MotionSenso | |
| 143 Maintenance Shops | Heavy Duty Garage | STR-T8-4 ft-32W-1 | 32 | 27 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 27 |
| 143(a) Maintenance Shops | Heavy Duty Garage | | 00.4 | A | Control | May RetroFit Occ Sensor | MES-06243 | 27 |
| 144 Internance Shops | Light Duty Garage | רטרו ס-4 TC-54VV-4 | 234 | 4 | | TighDay/Round/LED/5000K/100-277V | Strong MotionSore | 4 |
| 145 Maintenance Shops | Light Duty Garage | STR-T8-4 ft-32W-1 | 30 | 16 | Retrofit Kit | l inear/4 ft/I ED/Retrofit Kit/24W/120_277V | MFS-RTST124 | 16 |
| 145(a Maintenance Shops | Light Duty Garage | 0.11 10 T 1-02 WFI | 52 | 10 | Control | May RetroFit Occ Sensor | MES-06243 | 16 |
| 146 Maintenance Shops | Electric Shop | HB-T5-4 ft-54W-4 | 234 | 9 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 9 |

| | | Im | erys Lon | npoc | CA - Option | 3 | | |
|--------------------------|---------------------|--------------------|--------------------|------|--------------|---------------------------------------------|--------------------|-----|
| | EXISTING LIGH | TING SYSTEM | | | | | | |
| SL Area Name No. | Space Name | Existing Fixture | Fixture Wattage | Qty | Туре | Proposed Solution Description | Part Number | Qty |
| 146(a) Maintenance Shops | Electric Shop | | | | Control | Motion Sensor, | Strong-MotionSensc | |
| 147 Maintenance Shops | Electric Shop | STR-T8-4 ft-32W-1 | 32 | 24 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 24 |
| 147(a) Maintenance Shops | Electric Shop | | | | Control | Mav RetroFit Occ Sensor | MES-06243 | 24 |
| 148 Maintenance Shops | Electric Shop | VT-T5-4 ft-54W-2 | 117 | 1 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 1 |
| 149 Maintenance Shops | Electric Shop | WP-MH-250W-1 | 288 | 1 | Fixture | 75W/Area Light/Shoebox/LED/5000K/100-277V | MES-05691 | 1 |
| 150 Maintenance Shops | Electric Shop | WRP-T5-4 ft-54W-2 | 117 | 4 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 4 |
| 151 Maintenance Shops | Carpenter Shop | HB-T5-4 ft-54W-4 | 234 | 9 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 9 |
| 151(a) Maintenance Shops | Carpenter Shop | | | | Control | Motion Sensor, | Strong-MotionSensc | |
| 152 Maintenance Shops | Carpenter Shop | STR-T8-4 ft-32W-1 | 32 | 4 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 4 |
| 152(a) Maintenance Shops | Carpenter Shop | | | | Control | Mav RetroFit Occ Sensor | MES-06243 | 4 |
| 153 Maintenance Shops | Carpenter Shop | VT-T5-4 ft-54W-2 | 117 | 2 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 2 |
| 154 Maintenance Shops | Carpenter Shop | WRP-T8-4 ft-32W-2 | 60 | 4 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 4 |
| 155 Maintenance Shops | Utility Shop | HB-T5-4 ft-54W-4 | 234 | 5 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 5 |
| 155(a) Maintenance Shops | Utility Shop | | | | Control | Motion Sensor, | Strong-MotionSensc | |
| 156 Maintenance Shops | Utility Shop | OTH-MH-175W-1 | 208 | 4 | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | 4 |
| 157 Maintenance Shops | Paint Storage | OTH-INC-75W-1 | 75 | 3 | Lamp | Corn Cob/LED/Internal Driver/5700K/120-277V | YL-C030SLG4-30W | 3 |
| 158 Maintenance Shops | Hazardous Waste Sta | agir NA | | | Lamp | Corn Cob/LED/40W/5700K/120-277V | YL-C040SLG4-40W | 1 |
| 159 Maintenance Shops | Breakroom | STR-T8-4 ft-32W-1 | 32 | 12 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 12 |
| 159(a) Maintenance Shops | Breakroom | | | | Control | May RetroFit Occ Sensor | MES-06243 | 12 |
| 160 Maintenance Shops | Breakroom | WRP-T5-4 ft-54W-2 | 117 | 16 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 16 |
| 161 Erection & Repair | E&R Office | DEC-LED-19W-3 | 57 | 2 | Lamp | A19/LED/E30/4000K/100-277V | A19-9.5W-40K | 2 |
| 162 Erection & Repair | E&R Office | STR-T8-4 ft-32W-1 | 32 | 14 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 14 |
| 162(a) Erection & Repair | E&R Office | | | | Control | Mav RetroFit Occ Sensor | MES-06243 | 14 |
| 163 Erection & Repair | E&R Office | TR-T8-4 ft-32W-2 | 60 | 14 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 14 |
| 164 Erection & Repair | E&R Office | VT-T5-4 ft-54W-2 | 117 | 1 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 1 |
| 165 Erection & Repair | E&R Office | WRP-T8-4 ft-32W-2 | 60 | 20 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 20 |
| 166 Erection & Repair | Welding Shop | HB-T5-4 ft-54W-4 | 234 | 34 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R1 | 34 |
| 166(a) Erection & Repair | Welding Shop | | | | Control | Motion Sensor. | Strong-MotionSensc | |
| 167 Erection & Repair | Welding Shop | STR-T8-4 ft-32W-1 | 32 | 6 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 6 |
| 167(a) Erection & Repair | Welding Shop | | | | Control | May RetroFit Occ Sensor | MES-06243 | 6 |
| 168 Erection & Repair | Welding Shop | VT-T5-4 ft-54W-2 | 117 | 3 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 3 |
| 169 Erection & Repair | DXP | HB-T5-4 ft-54W-4 | 234 | 25 | Fixture | Highbay/Round/LED/5000K/100-277V | SL-UFOA00-70C-R | 25 |
| 169(a) Erection & Repair | DXP | | | | Control | Motion Sensor. | Strong-MotionSensc | |
| 170 Erection & Repair | DXP | STR-T12-4 ft-34W-2 | 66 | 2 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 2 |
| 171 Erection & Repair | DXP | STR-T8-4 ft-32W-1 | 32 | 40 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 40 |
| 171(a) Erection & Repair | DXP | | | | Control | May RetroEit Occ Sensor | MES-06243 | 92 |
| 172 Erection & Repair | DXP | STR-T8-4 ft-32W-1 | 32 | 52 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | MES-RTST124 | 52 |
| 172(a) Erection & Repair | DXP | | | | Control | May RetroEit Occ Sensor | MES-06243 | 92 |
| 173 Erection & Repair | DXP | TR-T8-4 ft-32W-2 | 60 | 8 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 8 |
| 174 Erection & Repair | E&R Exterior | WP-MH-250W-1 | 288 | 6 | Fixture | 75W/Area Light/Shoebox/LED/5000K/100-277V | MES-05691 | 6 |
| 175 R&D building | Offices | TR-T8-4 ft-32W-2 | 60 | 104 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 104 |
| 176 R&D building | Offices | WRP-T12-2 ft-35W-2 | 99 | 7 | Retrofit Kit | Linear/2 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST2230 | 7 |
| 177 R&D building | Offices | WRP-T8-4 ft-32W-2 | 60 | 19 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 19 |
| 178 R&D building | Offices | WRP-T8-4 ft-32W-2 | 60 | 6 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | MES-RTST230 | 6 |
| 179 R&D building | R&D Exterior | WP-INC-75W-1 | 75 | 3 | Fixture | 20W/Wallpack/Decorative/LED/5000K/100-277\ | MES-05052 | 3 |
| 180 B&D building | R&D Exterior | WP-MH-175W-1 | 208 | 7 | Fixture | Wall Mount/Security/LED/55W/120-277V | MES-SWP02-55841 | 7 |
| 100 map building | LACTION | VVI -WIII-17.0VV-1 | 200 | L ' | T IAture | | 102-000A | 1 |

Approval Signatures

Accepted and agreed this 7th day of March of 2022.

EIS Representative

By:

Enrique Perez-Young / CMO Energy Integrated Solutions, Inc. 829 Pickens Industrial Dr. NE, Suite 13 Marietta, GA 30062 USA Tel: (404) 937-6547 Email: <u>eperez-young@energyintegratedsolutions.com</u>

Project Abstract

Imerys Project Manager

Patzailaa Bv:

Patrick Zailaa / Industrial Performance Manager Imerys Performance Minerals Americas 2500 San Miguelito Rd. Lompoc, CA 93436 Tel: (805) 266-6527 Email: <u>patrick.zailaa@imerys.com</u>

Imerys Performance Minerals Americas @ Lompoc CA contracted services to upgrade all lighting at the Sylacauga facility to energy efficient lighting, complying with Imerys internal minimum lighting standards. The purpose of the work to be performed is to upgrade the lighting at Sylacauga, using LED latest technology to minimize electrical usage.

Electrical Scope of Work, quantities, locations and fixture types were assessed by EIS and a suitable lighting arrangement was proposed in order to meet the minimum lighting requirements (Imerys Standard IN-CX-ELE-001 rev.01). Imerys internal lighting will meet a CRI of 80 or higher unless otherwise authorized by the Imerys project manager. All proposed light fixtures were approved by the Project Manager. All work was completed according to Imerys safety standards.

EIS guaranteed parts for 10 years and for 5 years.

| | | EXISTIN | G LIGHTING SYSTEM | | | | | | PROP(| DSED LIGHTING SYSTEM | | Ъ | nergy | | |
|-----------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------|---------|-----------------|-----------------|-----------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|--------------|------------------|----------------|
| me Sp | pace Name | Space Usage | Fixture | Fixture Qu | antity | | Burn | Current Retrofit Decision | Type | Proposed Solution Description | Quantity | Watts | Total | | kWh |
| | | | | Wattage | 0 | urrent Watts | Hours | kWh | | | | | Watts | Hours | |
| Office En | igineering Office igineering Office | Office Office | OTH-INC-75W-1 TR-T8-4 ft-32W-2 | 75.00 60.00 | 42 1 | 75 2,520 | 3,129 3,129 | 207 Replace Lamp 6,969 Replace Retrofit Kit | Lamp Retrofit Kit | A19/LED/E31/4000K/100-277V Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 42 | 15 30 | 15 1,260 | 3,129 3,129 | 44 3,788 |
| Office En | gineering Office | Office | WRP-T8-4 ft-32W-2 | 60.00 | 5 | 660 | 3,129 | 1,825 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W//120-277V | 11 | 30 | 330 | 3,129 | 992 |
| Office EH | t S | Office | OTH-LED-19W-1 ETE T0 4 ft 2000 1 | 19.00 | 0 0 | 38 | 3,129 | 105 Replace Lamp | Lamp | A19/LED/E31/4000K/100-277V | 0 ç | 15 | 29 | 3,129 | 87 |
| | 2 | AUIO | 1-11-0-411-0201-01-01-0 | 00.26 | 2 | 020 | 0, IZ3 | 000 Vehace Veligit VI | Control | May Retro Fit Occ Sensor | <u>5</u> 6 | 74 | 740 | 0, I 2 3 | 77 |
| Office EH | ł | Office | TR-T8-4 ft-32W-2 | 60.00 | 6 | 540 | 3,129 | 1,493 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 6 | 30 | 270 | 3,129 | 812 |
| Office EH | ό ά | Office | WRP-T12-2 ft-35W-2 WRP-T8-4 ft-32W-2 | 99.00 60.00 | 48 | 99 2 880 | 3,129 3 129 | 274 Replace Retrofit Kit 7 965 Renlace Retrofit Kit | Retrofit Kit Retrofit Kit | Linear/2 ft/LED/Retrofit Kit/30W/120-277V Linear/4 ft/I ED/Retrofit Kit/30W/120-277V | 48 | 90 90 | 30 1 440 | 3,129 3,129 | 90 4 3 2 9 |
| Office Ma | anagement Office | Office | OTH-LED-19W-1 | 19.00 | 2 0 | 8 8 1 | 2,346 | 79 Replace Lamp | Lamp | A19/LED/E31/4000K/100-277V | i 0 | 15 | 23 | 2,346 | 65 |
| Office Ma | anagement Office | Office | STR-T8-4 ft-32W-1 | 32.00 | 66 | 2,112 | 2,346 | 4,379 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | 99 | 24 | 1,584 | 2,346 | 3,571 |
| Office | Office | Office | TD T0 4 # 30/M 0 | 00.00 | 00 | 1000 | 246 | 0.460 Dealace Detrofit Kit | Control Detrofit Lit | Mav RetroFit Occ Sensor | 99 | 06 | 010 0 | 37276 | 1 500 |
| Office Ma | anagement Office | Office | WRP-T12-2 ft-35W-2 | 00.00 | o - | 000't | 2.346 | 205 Replace Retrofit Kit | Retrofit Kit | Linear/2 ft/LED/Retrofit Kit/30W/120-277V | 9 - | 80 | 30.40 | 2.346 | 4, J33 |
| Office Ma | anagement Office | Office | WRP-T8-4 ft-32W-2 | 60.00 | 103 | 6,180 | 2,346 | 12,814 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 103 | 30 | 3,090 | 2,346 | 6,965 |
| Office Ma | anagement Office | Office | WRP-T8-4 ft-32W-2 | 60.00 | 17 | 1,020 | 2,346 | 2,115 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 17 | 30 | 510 | 2,346 | 1,150 |
| Office Ma | anagement Office | Office | WRP-T8-8 ft-59W-2 | 110.00 | 80 | 880 | 2,346 | 1,825 Replace Retrofit Kit | Retrofit Kit | Linear/8 ft/LED/Retrofit Kit/60W/120-277V | 8 | 60 | 480 | 2,346 | 1,082 |
| Office Qu | ality Control Lab | Office | STR-T8-4 ft-32W-2 | 60.00 | 4 0 | 240 | 8,760 | 1,858 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 4 0 | 30 | 120 | 8,760 | 1,010 |
| Office Qu | Jality Control Lab | Office | TR-T8-4 ft-32W-2 | 60.00 | 98 • | 5,880 | 8,760 • 760 | 45,526 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 98 | 30 | 2,940 | 8,760 | 24,747 |
| Office Qu | Jality Control Lab Jinning | Office | VIRP-10-4 II-32VV-2 TR-TR-4 ft-32VV-2 | 60.00 | 4 % | 1 920 | 0,760 8 760 | 1,000 Replace Retrofit Kit 14 866 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30///120-2/7V | 30 4 | 00 | 051 | 0,760 8 760 | 8.081 |
| Office Ga | atehouse & Scales | | TR-T8-4 ft-32W-2 | 60.00 | 1 0 | 120 | 8.760 | 929 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 2 2 | 30 | 09 | 8.760 | 505 |
| | | | | | 529 | 29,941 | | 114,640 | | Lighting Treatment OTY | 529 | | 15,577 | | 63,716 |
| | | | | | | | | | | Controlo Trootmont OTV | 40 | | | | |
| | | | | | | | | | | | 9/ | | | | |
| | | | | | | | | | | Current KW N Dronocod 1/1/14 | 114,640 63 746 | | | | |
| | | | | | | | | | | | 01/00 | | | | |
| thouse Wa | arehouse B&G | Warehouse Aisle | HB-T5-4 ft-54W-4 | 234.00 | 30 | 7,020 | 8,760 | 54,353 Replace Fixture | Fixture | Highbay/Round/LED/5000K/100-277V | 30 | 72 | 2,160 | 8,760 | 18,181 |
| eW estudi | arehouse C.&H | | HR-T5-4 ft-54W-4 | 234.00 | 20 | 4 680 | R 760 | 36.235 Renlace Fixture | Control | Motion Sensor, Hichhav/Roi ind/I ED/5000K/100-277V | 30 | 62 | 1 440 | 8 760 | 10 101 |
| | | | | | 24 | 2000 fr | 20210 | | Control | Motion Sensor, | 20 | ! | 2 | 2010 | í |
| house Wa | arehouse D&E | Warehouse Aisle | HB-T5-4 ft-54W-4 | 234.00 | 22 | 5,148 | 8,760 | 39,859 Replace Fixture | Fixture | Highbay/Round/LED/5000K/100-277V | 22 | 72 | 1,584 | 8,760 | 13,333 |
| - 101 | | All and a second s | OTH NO TEN 4 | 16.00 | | 76 | 0.022 0 | | Control | Motion Sensor, | 22 | ç | ę | 0.00 | 010 |
| nouse wa | arehouse D&E arehouse D&E | Warehouse Alsle Warehouse Alsle | OTH-LED-19W-1 | 19.00 | | 61 | o, /oU 8.760 | 147 Replace Fixture | Fixture | Corri Cop/LED/4000/5000K/120-277V Flood Liaht/LED/30W/5000K/120-277V | | 30 15 | 3 | 0,760 8.760 | 122 |
| house Lo | ading Dock Wall | Loading Dock | OTH-INC-75W-1 | 75.00 | 7 | 525 | 8,760 | 4,065 Replace Lamp | Lamp | Com Cob/LED/40W/5700K/120-277V | 7 | 30 | 210 | 8,760 | 1,768 |
| house Ou | utside | | HB-MH-250W-1 | 288.00 | - | 288 | 8,760 | 2,230 Replace Fixture | Fixture | Highbay/Round/LED/5000K/100-277V | - | 72 | 72 | 8,760 | 606 |
| | | | | | 82 | 17,755 | | 137,470 | | Lighting Treatment QTY | 82 | | 5,511 | | 46,383 |
| | | | | | | | | | | Controls Treatment QTY | 72 | | | | |
| | | | | | | | | | | Current kWh | 137,470 | | | | |
| | | | | | | | | | | Proposed kWh | 46,383 | | | | |
| | | | | | | | | | | | | | | | |
| house Exterior Out | utside Building Itside Building | | AL-MH-1000W-1 AI -MH-1000W-1 | 1,078.00 1.078.00 | 4 + | 4,312 1 078 | 4,380 4.380 | 16,693 Replace Fixture 4 173 Replace Fixture | Fixture | Area Light/Shoebox/LED/5000K/100-277V Area Light/Shoebox/LED/5000K/100-277V | 4 - | 300 | 1,200 300 | 4,380 4.380 | 5,050 1 263 |
| shouse Exterior Ou | trside Building | | AL-MH-400W-1 | 453.00 | - 7 | 906 | 4,380 | 3,507 Replace Fixture | Fixture | Area Light/Shoebox/LED/5000K/100-277V | - 7 | 150 | 300 | 4,380 | 1,263 |
| house Exterior Ou | Itside Building | | FL-LED-40W-1 | 40.00 | 5 | 80 | 4,380 | 310 Keep | | NA O LU POLICIO DI POLICIO O LU POLICIO DI POLICIO DI POLICIO DI POLICIO DI POLICIO O LU POLICIO O LU POLICIO DI POLIC | | ç | 007 | 000 | 010 |
| house Exterior Ou house Exterior Scr | utsiae builaing ribble | | UT-T5-4 ft-54W-2 | 117.00 | 4 0 | 832 702 | 4,380 4,380 | 3,221 Replace Lamp 2,718 Replace Retrofit Kit | Lamp Retrofit Kit | Com CoorLED/400005/0000/120-2770 Linear/4 ft/LED/Retrofit Kit/3000/120-2770 | 4 0 | 30 | 180 | 4,380 | 013 758 |
| | | | | | 17 | 7,830 | | 30,312 | | Lighting Treatment QTY | 17 | | 2,140 | | 9,006 |
| | | | | | | | | | | Controls Treatment QTY | | | | | |
| | | | | | | | | | | Current kWh | 30,312 | | | | |
| | | | | | | | | | | Proposed kWh | 9,006 | | | | |
| nouse Wa | arehouse Aisle | Warehouse Aisle | HB-T5-4 ft-54W-4 | 234.00 | 62 | 14.508 | 8.760 | 112.330 Replace Fixture | Fixture | Highbav/Round/LED/5000K/100-277V | 62 | 72 | 4,464 | 8.760 | 37,574 |
| | | | | | | | | - | Control | Motion Sensor | 62 | | | | |
| | | | | | 62 | 14,508 | | 112,330 | | Lighting Treatment QTY | 62 | | 4,464 | | 37,574 |
| | | | | | | | | | | Controls Treatment QTY | 62 | | | | |
| | | | | | | | | | | Current kWh | 112,330 | | | | |
| | | | | | | | | | | Proposed kWh | 37,574 | | | | |
| outoo Estorior - oo | odina Dook | Jood salidoo - | | 10.00 | ¢ | 67 | 000 1 | 201 Doulooo Eideino | Cite inco | | c | 00 | 6 | 000 1 | 020 |
| nouse Exterior Los | ading Dock | Loading Dock | AL-LED-45W-1 | 45.00 | - | 45 45 | 4,380 | 174 Keep | | NA | . | 8 | 8 | 000 ⁴ | 200 |
| nouse Exterior Loa | ading Dock | Loading Dock | FL-LED-40W-1 | 40.00 | - | 40 | 4,380 | 155 Keep | | NA | | | | | |
| iouse Exterior Loi | ading Dock | Loading Dock | WP-MH-175W-1 | 208.00 | - 4 | 208 265 | 4,380 | 805 Replace Fixture 1.026 | Fixture | Wall Mount/Security/LED/55W/120-277V Lichting Treatment OTY | 4 7 | 55 | 55 145 | 4,380 | 231 610 |
| | | | | | | | | | | Controls Treatment OTY | | | | | |
| | | | | | | | | | | Current kWh | 1.026 | | | | |
| | | | | | | | | | | Proposed kWh | 610 | | | | |
| | | | | 00 and | 4 | 1 156 | 0 760 | 14.070 Dowlace amn | 0mc | | ٢ | 10 | 08C | 0.760 | 0 367 |
| /aste Mr | CC room | | DTH-MH-1/bw-r | 208.00 | , | 1,450 | 8,760 | 11,273 Keplace Lamp | Lamp | Com Cob/LED/40W/5/UUK/12U-2//V | 1 | 40 | 780 | 8,760 | 2,351 |

| | | EXISTIN | IG LIGHTING SYSTEM | | | | | | PROPO | SED LIGHTING SYSTEM | | En | ergv | | |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| a Name | Space Name | Space Usage | Fixture | Fixture Qua Wattage | antity Cu | urrent H | Burn Hours | Current Retrofit Decision kWh | Type | Proposed Solution Description | Quantity | Watts | Total Watts | Burn | кWh |
| rtral Waste rtral Waste rtral Waste rtral Waste rtral Waste rtral Waste rtral Waste | | | VT-15-4 ft-54W-2 AL-INC-75W-1 FE-MM+175W-1 HB-MH-175W-1 OT-HM-H-175W-1 VT-15-4 ft-54W-2 VT-15-4 ft-54W-2 | 117,00 75,00 208,00 208,00 208,00 208,00 117,00 | 4 - 0 4 0 | Watts 468 75 416 208 208 468 3,299 | 8,760 4,380 4,380 4,380 4,380 4,380 | 3.624 Replace Retrofit Kit 290 Replace Fixture 1.610 Replace Fixture 805 Replace Fixture 805 Replace Exture 1,812 Replace Retrofit Kit 20,220 | Retrofit Kitt Fixture Fixture Fixture Lamp Retrofit Kit | Lineard4 ft/LED/Renofit Ktr30wr120-277V Flood Light/LED/300/K120-277V Highbay/Round/LED/5000K1100-277V Com Coh/LED/400/K5700K120-277V Lineard4 ft/LED/Renofit Ktr300/1120-277V Lineard4 ft/LED/Renofit Ktr300/1120-277V Lineard4 ft/LED/Renofit QTY Controls Treatment QTY Controls Treatment QTY Current kWh Proposed kWh | 4 11 4 4 20,220 4,890 | 30 30 30 30 30 30 30 30 30 30 30 30 30 3 | 120 30 72 100 120 762 | 8,760 8,760 4,3380 4,3380 4,3380 4,3380 | 1,010 126 421 303 505 5 05 6 05 |
| | Manufacturer Floor Manufacturer Floor Manufacturer Floor 7 Kill MCC 7 Wet 7 Wet | Manufacturer Floo Manufacturer Floo Manufacturer Floo Mechanical | r OTH-MH-175W-1 or OTH-T12-8 ft-60W-2 pr VT-T5-4 ft-54W-2 VT-T5-4 ft-54W-2 AL-MH-1000W-1 HB-MH-250W-1 HB-T5-4 ft-54W-4 | 208.00 115.20 117.00 117.00 288.00 234.00 | ça 4 o 0 − 0 r | 3,744 461 702 2,223 1,078 1,170 | 4,380 4,380 4,380 4,380 4,380 4,380 4,380 | 14.494 Replace Fixture 1,784 Replace Retrofit Kit 2,718 Replace Retrofit Kit 8,606 Replace Retrofit Kit 4,173 Replace Fixture 2,230 Replace Fixture 4,529 Replace Fixture | Fixture Retrofit Kit Retrofit Kit Retrofit Kit Fixture Fixture | Area Light/Shoebox/LED/5000K/100-277V Linear/8 ft/LED/Retrofit Kt\s00W/120-277V Linear/4 ft/LED/Retrofit Kt\s00W/120-277V Linear/4 ft/LED/Retrofit Kt\s00W/120-277V Highbay/Round/LED/5000K/100-277V Highbay/Round/LED/5000K/100-277V Highbay/Round/LED/5000K/100-277V | စ္ 4 ဖ စ် – <i>ပ</i> က ၊ | 50 30 72 72 72 | 900 240 570 360 360 360 | 4,380 4,380 4,380 4,380 4,380 4,380 4,380 | 3,788 1,010 758 2,399 1,263 606 1,515 |
| | 7 Wet 7 Dvy 7 Dvy 7 Dvy 7 Dvy | | OTH-MH-175W-1 V1-15-4 ft:5MV-2 HE-MH-175W-1 HE-MH-175W-1 OTH-MH-175W-1 V1-15-4 ft:54W-2 WP-MH-175W-1 | 208.00 117.00 208.00 208.00 208.00 117.00 208.00 208.00 | 22 64 23 | 5,824 8,424 208 208 7,488 7,488 32,522 | 4, 380 4, 380 4, 380 4, 380 4, 380 4, 380 4, 380 4, 380 | 22,546 Replace Lamp 32,612 Replace Retrofit Kit 805 Replace Fixture 805 Replace Fixture 805 Replace Lamp 28,988 Replace Retrofit Kit 805 Replace Fixture 125,902 | Lampo Lampo Fixture Fixture Lamp Retrofit Kit Fixture | conconsenserve conconstructure Lineard fillED/Retrefit (Ku30W1/30-277V Highbay/ReundLED/S00K1100-277V Highbay/ReundLED/S00K1100-277V Linear/4 fillED/Retrefit (Ku30W1/20-277V Vall Mound'SecurityLED/S6W1/20-277V U Lighting Treatment QTY Controls Treatment QTY Controls Treatment QTY Current kWh Proposed kWh | 28 72 64 64 223 223 34,136 34,136 | 55 55 55 55 55 55 55 55 55 55 55 55 55 | 1,120 2,160 50 72 1,920 8,111 | 4,380 4,380 4,388 4,388 4,388 4,388 4,380 4,380 | 4,714 9,091 2,10 3,03 1,68 8,081 2,31 2,31 34,136 |
| u u u | 6 Dry A&B Office 6 Dry A&B Office Eddor Walls | Office Office | STR-LED-35W-1 TR-T8-4 ft-32W-2 | 35.00 60.00 | - 4 0 | <mark>35</mark> 240 | <mark>8,760</mark> 8,760 | 271 Keep 1,858 Replace Retrofit Kit | Retrofit Kit | NA Linear/4 ft/LED/Retrofit Kit/30W//120-277V | 4 | 30 | 120 | 8,760 | 1,010 |
| | Exterior varias Exterior Walls Exterior Walls Exterior Walls 6 Dry Maintenance 6 Dry Control Room 6 Dry Control Room | Mechanical Mechanical | NEW UGHTING OTHNINC-100W-1 OTHNINC-100W-1 STR-175W-1 STR-175W-1 HB-MH-155W-1 OTHMH-175W-1 STR-1724 ft-34W-2 STR-1724 ft-34W-2 STR-1784 ft-33W-2 STR-1784 ft-33W-2 STR-1784 ft-33W-2 STR-1784 ft-33W-2 STR-1784 ft-33W-2 | 19.00 100.00 100.00 117.00 117.00 65.80 65.80 65.80 65.80 65.00 65.00 65.00 65.00 65.00 60.00 | , , , , , , , , , , , , , , , , , , , , | | 4, 4, 3, 30 4, 380 8, 760 8, 760 8, 760 8, 760 8, 760 8, 760 8, 760 8, 760 | Add Lamp Add Lamp 2.323 Replace Lamp 7.247 Replace Lamp 906 Replace Retrofit Kit 4.460 Replace Retrofit Kit 4.460 Replace Fixture 6.442 Replace Retrofit Kit 929 Replace Retrofit Kit | Lamp Lamp Lamp Retrofit Kit Retrofit Kit Retrofit Kit Retrofit Kit Retrofit Kit Retrofit Kit | Con CohLED/40W/5700K/120-277V Com CohLED/40W/5700K/120-277V Com CohLED/40W/5700K/120-277V Linear/8 ft/LED/Retroff (K1030W/120-277V Linear/8 ft/LED/Retroff (K1030W/120-277V Linear/8 ft/LED/Retroff (K1020W/120-277V Linear/8 ft/LED/Retroff (K1030W/120-277V Linear/8 ft/LED/Retroff (K1030W/120-277V) Linear/8 ft/LED/Retroff (K1030W/120-277V) Linear/8 ft/LED/Retroff (K1030W/120-277V) Linear/8 ft/LED/Retroff (K1030W/120-277V) Linear/8 ft/LED/Retroff (K1030W/120-277V) Linear/8 ft/LED/Retroff | 66 67 1413 60 60 7,413 60 7,413 7,413 | 8 8 9 9 7 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 | 40 360 980 980 980 980 680 680 680 680 680 83 2 | 4,380 4,380 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 | 168 758 1,515 8,081 253 2,53 505 505 505 505 505 505 505 505 505 |
| Warehouse Warehouse Warehouse | Warehouse Aisle Warehouse Aisle Warehouse Aisle | Warehouse Aisle Warehouse Aisle Warehouse Aisle | DL-LED-19W-1 HB-MH-250W-1 HB-T5-4 ft-54W-4 | 19.00 288.00 234.00 | 3 10 57 1 | 2,880 13,338 | <mark>8,760</mark> 8,760 8,760 | - Keep 22,299 Replace Fixture 103,271 Replace Fixture | Fixture Fixture | <mark>NA</mark> Highbay/Round/LED/5000K/100-277V Highbay/Round/LED/5000K/100-277V | 10 57 | 72 | 720 4,104 | 8,760 8,760 | 6,060 34,544 |
| Warehouse Warehouse Warehouse | Warehouse Aisle Warehouse Aisle Warehouse Aisle Warehouse Aisle | Warehouse Aisle Warehouse Aisle Warehouse Aisle Warehouse Aisle | OTH-INC-100W-1 OTH-INC-75W-1 OTH-MH-175W-1 STR-T84 ft-32W-1 | 100.00 75.00 32.00 | o 0 7 8 | 900 675 2,288 576 | 8,760 8,760 8,760 8,760 | 6,968 Replace Lamp 5,226 Replace Lamp 17,715 Replace Lamp 4,460 Replace Retrofit Kit | Control Lamp Lamp Retrofit Kit | Motion Sensor, Com Cob/LED/40W/5700K/120-277V Com Cob/LED/40W/5700K/120-277V Com Cob/LED/40W/5700K/120-277V Linear/4 ft/LED/Retrofit Kit/24W/120-277V | 57 9 9 1 18 | 30 15 24 | 270 131 440 | 8,760 8,760 8,760 8,760 | 2,273 1,098 3,704 3,636 |
| W arehouse W arehouse W arehouse W arehouse | Warehouse Aisle Warehouse Aisle Warehouse Aisle Warehouse Aisle | Warehouse Aisle Warehouse Aisle Warehouse Aisle Warehouse Aisle | STR-T8-4 ft-32W-2 STR-T8-8 ft-80W-2 VT-T5-4 ft-54W-1 VT-T5-4 ft-54W-2 VT-T5-4 ft-54W-2 | 60.00 160.00 64.00 117.00 | 28 82 82 223 223 | 120 1,280 5,248 1,989 29,294 | 8,760 8,760 8,760 8,760 | 929 Replace Retrofit Kit 9.911 Replace Retrofit Kit 40,633 Replace Retrofit Kit 15,400 Replace Retrofit Kit 226,812 | Control Retrofit Kit Retrofit Kit Retrofit Kit Retrofit Kit | Max Retroff Occ Sensor Inaar4 NLED/Retroff Ktb30W120-277V Linear/4 NLED/Retroff Ktb30W120-277V Linear/4 NLED/Retroff Ktb24W120-277V Linear/4 NLED/Retroff Ktb20W120-277V Linear/4 NLED/Retroff Ktb20 | 18 2 82 17 75 75 76 76 76 76 | 9 0 0 9 2 4 0 9 6 0 | 60 480 510 9,115 | 8,760 8,760 8,760 8,760 | 505 4,040 16,565 4,293 76,719 |
| terior terior terior | Parking & Roads Parking & Roads Parking & Roads Parking & Roads | | AL-MH-1000W-1 AL-MH-400W-1 AL-MH-400W-1 OTH-MH-175W-1 | 1,078.00 453.00 453.00 208.00 | 0 5 | 21,560 1,359 453 208 | 4,380 4,380 4,380 4,380 | 83,465 Replace Fixture 5,261 Replace Fixture 1,754 Replace Fixture 805 Replace Lamp | Fixture Fixture Lamp | Area Light/Shoebox/LED/5000K/200-480V Area Light/Shoebox/LED/5000K/200-480V Area Light/Shoebox/LED/5000K/200-480V Com CohLED/40W/5700K/120-277V | 0 S | 300 150 40 | 6,000 450 150 40 | 4,380 4,380 4,380 4,380 | 25,252 1,894 631 168 |

| 606 606 606 606 607 617 417 47 47 47 47 47 47 47 7 ,070 63 108 66 66 60 60 60 60 60 60 60 60 60 60 60 | 8,760 8,760 8,760 8,760 8,760 8,760 8,760 4,380 4,380 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 | 72 73 1,950 88 88 88 88 15 1,440 1,440 1,440 1,440 1,440 1,440 1,440 1,521 1,20 88 82 1,20 88 1,20 2,50 2,50 2,50 2,50 2,50 2,50 2,50 2 | 823 5238 <mark>8</mark> 88 549883 52 823 528 8 8 558 | 17,639 17,639 17,639 11,639 11,639 11,639 | Highbay/Round/LED/5000K1/10.277V Highbay/Round/LED/5000K1/10.277V Motion Sensor. Exam CovILED/30W/5700K1/20.277V Com CovILED/40W/5700K1/20.277V Com CovILED/40W/5700K1/20.277V Com CovILED/40W/5700K1/20.277V Com CovILED/40W/5700K1/20.277V Linear/4 ILLED/Retroft Kt/20W/120.277V May Retroff to Cos Sensor Linear/4 ILLED/Retroft Kt/20W/120.277V May Mourd/SecurityLED/300/K100.277V May Mourd/SecurityLED/30W/120.277V May Mourd/SecurityLED/5000K100.277V Highbay/Round/LED/5000K100.277V Moion Sensor Linear/4 ILLED/Retroft Kt/20W/120.277V Linear/4 Rt/LED/Retroft Kt/20W/120.277V Linear/4 Rt/LED/Retroft Kt/20W/ | Fixture Control Lamp Fixture Lamp Lamp Lamp Lamp Fixture Fixture Fixture Fixture Fixture Fixture Fixture Control Retrofit Kit Retrofit Kit | 1,610 Replace Fixture 1,812 Replace Fixture 1,722 Replace Fixture 9,565 Replace Lamp 3,221 Replace Lamp 3,221 Replace Lamp 3,221 Replace Lamp 3,231 Replace Lamp 3,231 Replace Fixture 1,610 Replace Fixture 2,536 Replace Retrofit Kit 5,575 Replace Retrofit Kit 5,576 Replace Retrofit Kit 1,610 Replace Fixture 1,610 Replace Retrofit Kit 1,73,851 | 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 8,760 | 208 208 225 1,235 416 416 416 4,680 4,680 4,680 1,152 1,152 1,1152 2,746 2,746 2,746 2,746 | 44 44 44 | 2000 234.00 75.00 19.00 208.00 228.00 234.00 234.00 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65.80 65 | HB-MH-175W-1 HB-T5-4 ft-54W-4 OTH-LIC-75W-1 OTH-LIED-19W-1 OTH-MH-175W-1 OTH-MH-175W-1 STR-175W-1 STR-175W-1 STR-175W-1 HB-T5-4 ft-54W-4 VT-T5-4 ft-54W-4 NH-175W-1 HB-T5-4 ft-54W-4 VT-T5-4 ft-54W-4 VT-T5-4 ft-54W-4 HB-T5-4 ft-54W-4 STR-172-4 ft-54W-4 HB-T5-4 ft | | Processing Area Processing Are | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| | 8,760 8,760 | 9,157 9,157 | 5 % % % % % | 16 248 96,462 52,186 52,186 | Com Cobil ED/40/WisToron (120-2777) Elood LightLED/Retrofft Kit300//120-2777 Lineard ftULED/Retrofft Kit300//120-2777 Lighting Treatment QTY Controls Treatment QTY Current KWH Proposed KWH | Lamp Fixture Retrofit Kit Lamp | 6,194 Replace Lamp 1,327 Replace Fixture 1,327 Replace Retrofit Kit 96,462 883 Replace Lamp 883 Replace Lamp | 6,257 6,257 8,760 8,760 | 1,600 76 240 18,974 | 0 4 4 8 9 0 0 | 19000 19000 19000 19000 19000 19000 19000 | 07HINC-100W-1 07H-LED-19W-1 WRP-T84 ft-32W-2 07H-LED-19W-1 | ۵. | 23 | Speciaties WH Extern Speciaties WH Extern Speciaties WH Extern Contractor Trailer Silicate Maintenance S silicate Maintenance S |
| 12,80 1,42 4,14 | 6,257 6,257 6,257 6,257 | 2,130 110 240 80 | 30 55 24 40 | 2 1 0 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 1 2 3 1 2 3 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 1 1 | Highbay/Round/LED/5000K1/100.277V Con Cob/LED/40W/5700K1/100.277V Linear/4 I/LED/Retroit k(b/24/V1/30.277V Max RetroTeT Occ Sensor NA | Fixture Lamp Retrofit Kit Control Fixture | 7,460 Replace Fixture 2,301 Replace Lamp 1,770 Replace Retrofit Kit 2,301 Replace Fixture - Keep | 6,257 6,257 6,257 6,257 6,257 | 1,349 416 320 416 - | 72 10 4 | 19.00 208.00 32.00 208.00 18.00 | OTH-LED-19W -1 OTH-MH-175W-1 STR-T8-4 ft-32W-1 WP-MH-175W-1 AL-LED-18W-1 | | arior | Specialties WH Specialties WH Specialties WH Specialties WH Specialties WH Extr |
| 1,80 1,80 1,80 1,80 1,80 1,80 1,80 1,80 | 4,300 6,257 6,257 6,257 6,257 | 60 60 80 1,368 | 30 30 55 72 | 4 0 Q 0 - Q Q | Ame Light/LED/300K/12027TV Flood Light/LED/300K/12027TV Com Coh/LED/300K/12027TV Com Coh/LED/300K/12027TV Mighay/Round/LED/500K/10027TV Highbay/Round/LED/500K/10027TV Midion/Sensor, | Lamp Fixture Lamp Fixture Fixture Control | 0.5.1. Neptoer Ixuue 8.30 Replace Entrue 1,051 Replace Eixture 2,301 Replace Eixture 1,150 Replace Fixture 24,588 Replace Fixture | 4,300 6,257 6,257 6,257 6,257 | 2, 150 150 416 208 4,446 | 1 0 <u>0</u> 0 - 0 | 75.00 75.00 19.00 208.00 208.00 234.00 | OTH-INC-75W-1 OTH-ICC-75W-1 OTH-MH-175W-1 WP-MH-175W-1 WP-MH-175W-1 HB-T5-4 ft-54W-4 | | | 2266 WH Exterior 2266 WH Exterior 2266 WH Exterior 2266 WH Exterior 2266 WH Exterior 2266 WH Exterior Specialties WH |
| 18 2,88 54 1,26 | 6,257 6,257 6,257 4,380 | 30 30 300 300 | 30 0 30 0 30 0 | 7 9 9 7 7 9 9 7 7 9 7 | May ReitoFit Occ Sensor Linear4 thLED/Reitofit Kit30W/120-277V Flood LightLED/Reitofit Kit30W/120-277V Flood LightLED/StyV15006X/120-277V Area Light'Shoebox/LED/5000K/100-277V | Control Retrofit Kit Fixture Fixture | 332 Replace Retrofit Kit5,309 Replace Retrofit Kit1,244 Replace Fixture4,173 Replace Fixture | 6,257 6,257 6,257 4,380 | 60 960 225 1,078 | - 9 ° - | 60.00 60.00 75.00 1,078.00 | STR-T8-4 ft-32W-2 TR-T8-4 ft-32W-2 AL-INC-75W-1 AL-MH-1000W-1 | Warehouse Aisle Warehouse Aisle | | 2266 Warehouse 2266 Warehouse 2266 WH Exterior 2266 WH Exterior |
| 1,804 1,082 7,792 | 6,257 6,257 6,257 | 300 180 1,296 | 30 30 24 | 8 0 0 1 8 | Mation Sensor, Com CobALED/40W/5700K/120-277V Linear/4 th/ED/Retrofit kin300W/120-277V Linear/4 th/ED/Retrofit Kin24W/120-277V | Control Lamp Retrofit Kit Retrofit Kit | 1,051 Replace Lamp 2,183 Replace Retrofit Kit 9,556 Replace Retrofit Kit | 6,257 6,257 6,257 | 190 395 1,728 | 10 6 54 | 19.00 65.80 32.00 | OTH-LED-19W-1 STR-T12-4 ft-34W-2 STR-T8-4 ft-32W-1 | Warehouse Aisle Warehouse Aisle Warehouse Aisle | | 2266 Warehouse 2266 Warehouse 2266 Warehouse |
| 433 3,463 | 6,257 6,257 | 72 576 | 72 72 | ← ∞ ∞ | Highbay/Round/LED/5000K/100-277V Highbay/Round/LED/5000K/100-277V Motion Sensor. | Fixture Fixture Control | 1,593 Replace Fixture 10,353 Replace Fixture | 6,257 6,257 | 288 1,872 | ~∞ | 288.00 234.00 | HB-MH-250W-1 HB-T5-4 ft-54W-4 | Warehouse Aisle Warehouse Aisle | | 2266 Warehouse 2266 Warehouse |
| 1,263 29,208 | 4,380 | 300 6,940 | 150 | 2 27 94,793 29,208 | Area Light/Shoebox/LED/5000K/200480V Lighting Treatment QTY Controls Treatment QTY Current kWh Proposed kWh | Fixture | 3,507. Replace Fixture 94,793 | 4,380 | 24,486 | 2 27 | 453.00 | PGR-MH-400W-1 | | | Parking & Roads |
| kWh | Burn Hours | rgy Total Watts | Watts | Quantity | Proposed Solution Description | Type | Current Retrofit Decision kWh | Burn Hours | Current Watts | Quantity | r Fixture (Wattage | ig Lightiing SYSTEIN Fixture | EXIS IIV Space Usage | | Space Name |
| | - | rgv | Ene | | SED LIGHTING SYSTEM | PROPO | | | | | 5 | IG LIGHTING SYSTEN | EXISTIN | | |

| | | EXISTIN | NG LIGHTING SYSTEM | | | | | | PROPOS | ED LIGHTING SYSTEM | _ | Ene | rev | | |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------|----------------------------------|------------------------------------------------|
| Area Name | Space Name | Space Usage | Fixture | Fixture Qua Wattage | ntity Cu | irrent F | Burn Hours | Current Retrofit Decision kWh | Type | Proposed Solution Description | Quantity | Watts | Total Watts | Burn | kWh |
| Celnure Plant | Calnura | | HR-T5-4 ft-54W-4 | 234.00 | 36 | Watts | 8 760 | 65.224 Renlace Fixture | Fixture | Hiddbav/Round/I E D/5000K/100-277V | 36 | 72 | 2 592 | Hours 8 760 | 21817 |
| | Celhai e | | | 00:402 | 00 | 0,424 | 0,100 | | Control | Motion Sensor, | 36 | 71 | 2,032 | 007.00 | 21,017 |
| Celpure Plant Celpure Plant | Celpure Celpure | | ОТН-МН-175W-1 STR-T8-4 ft-32W-2 | 208.00 60.00 | 8 16 | 1,664 960 | 8,760 8,760 | 12,884 Replace Lamp 7,433 Replace Retrofit Kit | Lamp Retrofit Kit | Com Cob/LED/40W/5700K/120-277V Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 8 9 5 | 40 30 | 320 480 | 8,760 8,760 | 2,694 4,040 |
| Celpure Plant Celpure Plant | Celpure Celpure | | VT-T5-4 ft-54W-2 WP-MH-250W-1 | 117.00 288.00 | 49 2 | 5,733 576 | 8,760 4,380 | 44,388 Replace Retrofit Kit 2,230 Replace Fixture | Control Retrofit Kit Fixture | wav ketro ht Occ sensor Linear/4 ft/LED/Retro fit Kit/30W/120-277V Wall Mount/Security/LED/80W/120-277V | 2 <u>1</u> 0 | 30 80 | 1,470 160 | 8,760 4,380 | 12,373 673 |
| Celpure Plant | Cepure Exterior | | AL-MH-400W-1 | 453.00 | 113 | 906 18,263 | 4,380 | 3.507 Replace Fixture 135,666 | Fixture | Area LightSnetox/LED/S00K/100_277V Lighting Treatment QTY Controls Treatment QTY Current kWh Proposed kWh | 2 113 52 135,666 42,860 | 150 | 300 5,322 | 4,380 | 1,263 42,860 |
| Lockers Lockers Lockers Lockers | Breakroom Building Breakroom Building Breakroom Building Breakroom Building | Restroom Restroom Restroom Restroom | ОТН-LED-19W-1 STR-184 ft:32W-2 TR-184 ft:32W-2 WRP-184 ft:32W-2 | 19.00 60.00 60.00 60.00 | 33 3 3 3 | 95 600 300 1,895 | 8,760 8,760 8,760 8,760 | 368 Replace Lamp 4646 Replace Retrofit Kit 6.968 Replace Retrofit Kit 2.323 Replace Retrofit Kit 14,304 | Lamp Retrofit Kit Retrofit Kit Retrofit Kit | Com CobAED/40W/5700K/120-277V Lineard 41/LED/Retrofit Kit/30W/120-277V Lineard 41/LED/Retrofit Kit/30W/120-277V Lineard 41/LED/Retrofit Kit/30W/130-277V Lineard 41/LED/Retrofit A/130W/130-277V Lighting Treatment QTY Controls Treatment QTY Current kWh Proposed kWh | 5 10 15 3 5 3 5 3 5 5 3 5 5 0 4 4 3 5 5 0 4 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 150 300 450 1,050 | 4,380 8,760 8,760 8,760 | 631 2,525 3,788 1,263 8,207 |
| Q&M Q&M Q&M | Q&M Office Q&M Maintenance Greenhouse | Office Mechanical | TR-T8-4 ft-32W-2 STR-T8-4 ft-32W-1 HB-T5-4 ft-54W-4 | 60.00 32.00 234.00 | 50 15 6 | 3,000 480 1,404 | 8,760 8,760 8,760 | 23,228 Replace Retrofit Kit 3,716 Replace Retrofit Kit 10,871 Replace Fixture | Retrofit Kit Retrofit Kit Fixture | Linear/4 ft/LED/Retro fit Kit/30W/120-277V Linear/4 ft/LED/Retro fit Kit/24W/120-277V Highbay/Round/LED/5000K/100-277V | 50 65 | 30 24 72 | 1,500 360 432 | 8,760 8,760 8,760 | 12,626 3,030 3,636 |
| Q&M | Q&M-Maintenance | | HB-T5-4 ft-54W-4 | 234.00 | 6 | 2,106 | 8,760 | 16,306 Replace Fixture | Fixture | Motion Sensor, Highbay/Round/LED/5000K/100-277V Motion Sensor | 000 | 72 | 648 | 8,760 | 5,454 |
| | | | | | 80 | 6,990 | | 54,121 | 0000 | Lighting Treatment QTY Controls Treatment QTY Current kWh Proposed kWh | 80 15 54,121 24,747 | | 2,940 | | 24,747 |
| Maintenance Shops Maintenance Shops | Heavy Duty Garage Heavy Duty Garage | Mechanical Mechanical | AL-MH-1000W-1 HB-T5-4 ft-54W-4 | 1,078.00 234.00 | 9 14 | 9,702 3,276 | 4,380 8,760 | 37,559 Replace Fixture 25,365 Replace Fixture | Fixture Fixture | Area Light/Shoebox/LED/5000K/100-277V Highbay/Round/LED/5000K/100-277V Mittion Soncer | 0 4 7 | 300 72 | 2,700 1,008 | 4,380 8,760 | 11,363 8,485 |
| Maintenance Shops Maintenance Shops | Heavy Duty Garage Heavy Duty Garage | Mechanical Mechanical | OTH-LED-19W-1 STR-T8-4 ft-32W-1 | 19.00 32.00 | 5 27 | 95 864 | 8,760 8,760 | 736 Replace Fixture 6,690 Replace Retrofit Kit | Fixture Retrofit Kit | Flood Light/LED/30W/5000K/120-277V Linearl ft/LED/Retroft Kit/30W/120-277V | 2 2 27 | 30 30 | 150 810 | 8,760 8,760 | 1,263 6,818 |
| Maintenance Shops | Light Duty Garage | Mechanical | HB-T5-4 ft-54W-4 | 234.00 | 4 | 936 | 8,760 | 7,247 Replace Fixture | Fixture | May Retro Fit. Occ. Serisor Highbay/Round/LED/5000K/100-277V Motion Sensor | 4 4 | 72 | 288 | 8,760 | 2,424 |
| Maintenance Shops Maintenance Shops | Light Duty Garage Light Duty Garage | Mechanical Mechanical | ОТН-LED-19W-1 STR-T8-4 ft-32W-1 | 19.00 32.00 | 5 16 | 95 512 | 8,760 8,760 | 736 Replace Lamp 3,964 Replace Retrofit Kit | Control Lamp Retrofit Kit Control | would return setter Com Cob/LED/40/W/5700K/120-277V Linear/4 ft/LED/Retrofit Kit/24W/120-277V Mar RetroFit Occ Sensor | 4 9 9 9 19 7 1 | 30 24 | 150 384 | 8,760 8,760 | 1,263 3,232 |
| Maintenance Shops | Electric Shop | Mechanical | HB-T5-4 ft-54W-4 | 234.00 | 6 | 2,106 | 8,760 | 16,306 Replace Fixture | Fixture | Highbay/Round/LED/5000K/100-277V Motion Sensor | თთ | 72 | 648 | 8,760 | 5,454 |
| Maintenance Shops Maintenance Shops | Electric Shop Electric Shop | Mechanical Mechanical | OTH-LED-19W-1 STR-T8-4 ft-32W-1 | 19.00 32.00 | 3 24 | 57 768 | 8,760 8,760 | 441 Replace Fixture 5,946 Replace Retrofit Kit | Fixture Retrofit Kit Control | Highbay/Round/, Linear/4 tVLED/S000K/100-277V Linear/4 tVLED/Retro fit Kit/24W/120-277V Mav Retro Fit Occ Sensor | 24 24 | 30 24 | 90 576 | 8,760 8,760 | 758 4,848 |
| Maintenance Shops Maintenance Shops Maintenance Shops Maintenance Shops | Electric Shop Electric Shop Electric Shop Carpenter Shop | Mechanical Mechanical Mechanical Mechanical | VT-T5-4 ft-54W-2 WP-MH-250W-1 WRP-T5-4 ft-54W-2 HB-T5-4 ft-54W-4 | 117.00 288.00 117.00 234.00 | 4 O | 117 288 468 2,106 | 8,760 4,380 8,760 8,760 | 906 Replace Retrofit Kit 1,115 Replace Fixture 3,624 Replace Retrofit Kit 16,306 Replace Fixture | Retrofit Kit Fixture Retrofit Kit Fixture | Linear/4 ft/LED/Retroft Ktt30W/120-277V Area Light/Shoebox/LED/5000K/100-277V Linear/4 ft/LED/Retroft Ktt/30W/120-277V Highbay/Round/LED/5000K/100-277V | | 30 75 30 72 | 30 75 120 648 | 8,760 4,380 8,760 8,760 | 253 316 1,010 5,454 |
| Maintenance Shops Maintenance Shops | Carpenter Shop Carpenter Shop | Mechanical Mechanical | OTH-LED-19W-1 STR-T8-4 ft-32W-1 | 19.00 32.00 | - 4 | 19 128 | 4,380 8,760 | 74 Replace Fixture 991 Replace Retrofit Kit | Control Fixture Retrofit Kit | Motion Sensor, Flood Light/LED/30W/5000K/120-277V Linear/4 ft/LED/Retrofit Kit/24W/120-277V | 0 – 4 | 30 24 | 30 96 | 4,380 8,760 | 126 808 |
| Maintenance Shops Maintenance Shops Maintenance Shops | Carpenter Shop Carpenter Shop Utility Shop | Mechanical Mechanical Mechanical | VT-T5-4 ft-54W-2 WRP-T84 ft-32W-2 HB-T5-4 ft-54W-4 | 117.00 60.00 234.00 | 040 | 234 240 1,170 | 8,760 8,760 8,760 | 1,812 Replace Retrofit Kit 1,858 Replace Retrofit Kit 9,059 Replace Fixture | Control Retrofit Kit Retrofit Kit Fixture | Max RetroFit Occ Sensor Linear/4 ft/LED/Retrofit Kit/30W/120-277V Linear/4 ft/LED/Retrofit Kit/30W/120-277V Highbay/Round/LED/5000K/100-277V Michine Sensor | 4 0 4 W M | 30 30 72 | 60 120 360 | 8,760 8,760 8,760 | 505 1,010 3,030 |
| Maintenance Shops Maintenance Shops | Utility Shop Paint Storage | Mechanical Storage | OTH-MH-175W-1 OTH-INC-75W-1 | 208.00 75.00 | 4 6 | 832 225 | 4,380 8,760 | 3,221 Replace Lamp 1,742 Replace Lamp | Lamp | Com Cob/LED/40W/5700K/120-277V Com Cob/LED/40W/5700K/120-277V Com Cob/LED/40W/5700K/120-277V | ე 4 რ 4 | 40 30 | 160 90 | 4,380 8,760 | 673 758 227 |
| Maintenance Shops Maintenance Shops Maintenance Shops | nazaruous waste olagii Breakroom Breakroom | 29 | 0TH-LED-19W-1 STR-T8-4 ft-32W-1 | 19.00 32.00 | 12 | 228 384 | o,700 8,760 8,760 | Aud Lamp 1,765 Replace Lamp 2,973 Replace Retrofit Kit | Lamp Retrofit Kit Control | Com ConLED/40W/5700K/120-217V Com ConLED/40W/5700K/120-277V Linear/4 ft/LED/Retroff th(124W/120-277V May RethEft Occ Sensor | - 6 6 6 | 30 24 | 360 288 288 | 8,760 8,760 8,760 | 337 3,030 2,424 |
| Maintenance Shops | Breakroom | | WRP-T5-4 ft-54W-2 | 117.00 | 16 194 | 1,872 26,722 | 8,760 | 14,494 Replace Retrofit Kit 164,929 | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V Lighting Treatment QTY | 16 195 | 30 | 480 9,761 | 8,760 | 4,040 69,682 |
| | | | | | | | | | | Controls Treatment QTY Current kWh Proposed kWh | 124 164,929 69,682 | | | | |

| | | EXISTIN | IG LIGHTING SYSTEM | | | | | | PROPO | SED LIGHTING SYSTEM | | Ene | rgy | | |
|-------------------|--------------|-------------|---------------------------|------------|---------|-----------------|-------|-----------------------------|--------------|--------------------------------------------|----------|-------|-------|---------------|--------|
| Area Name | Space Name | Space Usage | Fixture | Fixture Qu | lantity | | Burn | Current Retrofit Decision | Type | Proposed Solution Description | Quantity | Watts | Total | | kWh |
| | | | | Wattage | 0 | urrent Watts | Hours | kWh | | | | | Watts | Burn Hours | |
| Erection & Repair | E&R Office | Office | DEC-LED-19W-3 | 57.00 | 2 | 114 | 3.129 | 315 Replace Lamp | Lamp | A19/LED/E30/4000K/100-277V | 9 | 10 | 57 | 3.129 | 171 |
| Erection & Repair | E&R Office | Office | OTH-LED-19W-1 | 19.00 | 0 | 88 | 3.129 | 105 Replace Lamp | Lamp | Com Cob/LED/40W/5700K/120-277V | 2 | 30 | 90 | 3.129 | 180 |
| Erection & Repair | E&R Office | Office | STR-T8-4 ft-32W-1 | 32.00 | 14 | 448 | 3.129 | 1.239 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | 14 | 24 | 336 | 3.129 | 1.010 |
| - | | | | | | | | - | Control | Mav Retro Fit Occ Sensor | 14 | | | | |
| Erection & Repair | E&R Office | Office | TR-T8-4 ft-32W-2 | 60.00 | 14 | 840 | 3,129 | 2,323 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 14 | 30 | 420 | 3,129 | 1,263 |
| Erection & Repair | E&R Office | Office | VT-T5-4 ft-54W-2 | 117.00 | - | 117 | 3,129 | 324 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | - | 30 | 30 | 3,129 | 6 |
| Erection & Repair | E&R Office | Office | WRP-T8-4 ft-32W-2 | 60.00 | 20 | 1,200 | 3,129 | 3,319 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 20 | 30 | 600 | 3,129 | 1,804 |
| Erection & Repair | Welding Shop | | HB-T5-4 ft-54W-4 | 234.00 | 34 | 7,956 | 3,129 | 22,003 Replace Fixture | Fixture | Highbay/Round/LED/5000K/100-277V | 34 | 72 | 2,448 | 3,129 | 7,360 |
| | | | | | | | | | Control | Motion Sensor, | 34 | | | | |
| Erection & Repair | Welding Shop | | STR-T8-4 ft-32W-1 | 32.00 | 9 | 192 | 3,129 | 531 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | 9 | 24 | 144 | 3,129 | 433 |
| | | | | | | | | | Control | Mav Retro Fit Occ Sensor | 9 | | | | |
| Erection & Repair | Welding Shop | | VT-T5-4 ft-54W-2 | 117.00 | e | 351 | 3,129 | 971 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | e | 30 | 06 | 3,129 | 271 |
| Erection & Repair | DXP | | HB-T5-4 ft-54W-4 | 234.00 | 25 | 5,850 | 3,129 | 16,179 Replace Fixture | Fixture | Highbay/Round/LED/5000K/100-277V | 25 | 72 | 1,800 | 3,129 | 5,412 |
| | | | | | | | | | Control | Motion Sensor, | 25 | | | | |
| Erection & Repair | DXP | | OTH-LED-19W-1 | 19.00 | 29 | 551 | 3,129 | 1,524 Replace Lamp | Lamp | Com Cob/LED/40W/5700K/120-277V | 29 | 30 | 870 | 3,129 | 2,616 |
| Erection & Repair | DXP | | STR-T12-4 ft-34W-2 | 65.80 | 2 | 132 | 3,129 | 364 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 2 | 30 | 60 | 3,129 | 180 |
| Erection & Repair | DXP | | STR-T8-4 ft-32W-1 | 32.00 | 40 | 1,280 | 3,129 | 3,540 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | 40 | 24 | 960 | 3,129 | 2,886 |
| | | | | | | | | | Control | Mav RetroFit Occ Sensor | 40 | | | | |
| Erection & Repair | DXP | | STR-T8-4 ft-32W-1 | 32.00 | 52 | 1,664 | 3,129 | 4,602 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/24W/120-277V | 52 | 24 | 1,248 | 3,129 | 3,752 |
| | | | | | | | | | Control | Mav Retro Fit Occ Sensor | 52 | | | | |
| Erection & Repair | DXP | | TR-T8-4 ft-32W-2 | 60.00 | 80 | 480 | 3,129 | 1,327 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 80 | 30 | 240 | 3,129 | 722 |
| Erection & Repair | E&R Exterior | | WP-MH-250W-1 | 288.00 | 9 | 1,728 | 4,380 | 6,690 Replace Fixture | Fixture | Area Light/Shoebox/LED/5000K/100-277V | 9 | 75 | 450 | 4,380 | 1,894 |
| | | | | | 258 | 22,941 | | 65,355 | | Lighting Treatment QTY | 262 | | 9,813 | | 30,044 |
| | | | | | | | | | | Controls Treatment QTY | 171 | | | | |
| | | | | | | | | | | Current kWh | 65,355 | | | | |
| | | | | | | | | | | Dronosed MMh | 30.044 | | | | |
| | | | | | | | | | | | 1000 | | | | |
| R&D building | Offices | Office | TR-T8-4 ft-32W-2 | 60.00 | 104 | 6.240 | 3.129 | 17.257 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 104 | 30 | 3.120 | 3.129 | 9.380 |
| R&D building | Offices | Office | WRP-T12-2 ft-35W-2 | 00.66 | 7 | 693 | 3,129 | 1.917 Replace Retrofit Kit | Retrofit Kit | Linear/2 ft/LED/Retrofit Kit/30W/120-277V | 7 | 30 | 210 | 3.129 | 631 |
| R&D building | Offices | Office | WRP-T8-4 ft-32W-2 | 60.00 | 19 | 1,140 | 3,129 | 3,153 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W//120-277V | 19 | 30 | 570 | 3,129 | 1,714 |
| R&D building | Offices | Office | WRP-T8-4 ft-32W-2 | 60.00 | 9 | 360 | 3,129 | 996 Replace Retrofit Kit | Retrofit Kit | Linear/4 ft/LED/Retrofit Kit/30W/120-277V | 9 | 30 | 180 | 3,129 | 541 |
| R&D building | R&D Exterior | | WP-INC-75W-1 | 75.00 | ო | 225 | 4,380 | 871 Replace Fixture | Fixture | Wallpack/Decorative/LED/5000K/100-277V | 3 | 26 | 78 | 4,380 | 328 |
| R&D building | R&D Exterior | | WP-MH-175W-1 | 208.00 | 7 | 1,456 | 4,380 | 5,637 Replace Fixture | Fixture | Wall Mount/Security/LED/55W/120-277V | 7 | 55 | 385 | 4,380 | 1,620 |
| | | | | | 146 | 10,114 | | 29,830 | | Lighting Treatment QTY | 146 | | 4,543 | | 14,215 |
| | | | | | | | | | | Controls Treatment QTY | | | | | |
| | | | | | | | | | | Current kWh | 29,830 | | | | |
| | | | | | | | | | | Proposed kWh | 14.215 | | | | |
| | | | | | | | | | | | | | | | 1 |

Lighting Rebates



The advantages of light-emitting diode (LED) technologies

Light-emitting diode technologies use less energy and operate at lower temperatures, which helps reduce cooling costs. They also last much longer and require less maintenance. Best of all, these advanced technologies offer you all these benefits while providing equal- or better-quality light.

Additional benefits and technological advantages of LEDs:

- LEDs convert energy to light more efficiently than other sources, and when combined with improvements in fixture design, can lead to improved fixture efficiency as well.
- LEDs turn on at full brightness almost instantly with no strike delay, even when cold, making LEDs the superior option for cold locations, such as walk-in refrigerators, cold storage facilities and outdoor areas like parking lots.
- LEDs are resistant to breakage and heavy vibrations because they do not have filaments or glass bulbs.
- LEDs are mercury-free and have fewer environmental toxins that some other lighting technologies.
- Quality LEDs can be dimmed and when you add compatible lighting controls, it's possible to eliminate overlighting and greatly enhance savings.

Rebates to help you save energy with LED lighting

PG&E offers many rebates to help you leverage the advantages of LED lighting. In addition to reviewing the specific requirements for each lighting rebate, and to ensure rebate eligibility, please note the following requirements before you begin:

- All components must be installed and operational before a rebate application is submitted.
- All new lighting fixtures, retrofit kits and components must carry the appropriate designated safety certification label—including, but not limited to, Underwriters Laboratories (UL), Electrical Testing Laboratory (ETL) or TUV Rheinland (TUV).
- Installations must be installed in accordance with all applicable local, state and national codes and ordinances.
- Installation of new fixtures must result in a net decrease of installed wattage per space.
- Only DesignLights Consortium [DLC]-premium fixtures listed in the product category that meet catalog requirements qualify for this rebate. All other PG&E business rebate application conditions apply. Visit **designlights.org/search**.
- If building type eligibility is not listed, all building types are eligible. Additional requirements may apply.
- To qualify for energy-savings rebates, you must have a non-residential electric account with PG&E at the installation address.





Lighting

Interior LED High-Bay and Low-Bay Lighting

Requirements:

- Only DesignLights Consortium [DLC]-premium fixtures listed—visit designlights.org/search in the LED high-bay or low-bay product category that meet catalog requirements qualify for this rebate:
- High-Bay Luminaires (fixtures and retrofit kits)
- Low-Bay Luminaires (fixtures and retrofit kits)
- High-Bay Aisle Luminaires (fixtures)
- Customer selects the measure code based on the wattage and efficacy of the new fixture.

Exclusions:

- Self-ballasted, screw-based or pin-based lamps and LED tube-style lamps do not qualify.
- Products not listed in the high-bay or low-bay categories above, including LED troffers, troffer retrofit kits, linear LED retrofit kits, lamp style retrofit kits, linear ambient luminaires or any lighting products classified in the outdoor/exterior categories, do not qualify for this rebate.
- Horticultural installations do not qualify for this rebate.
- Exterior installations do not qualify for this rebate.
- New construction is not eligible

Additional details:

- Measure codes and rebates are defined by and set according to lumen range and minimum efficacy requirements as follows:
 - Tier 1 measures: Products must meet or exceed DLC Premium classification
 - Tier 2 measures: Products must meet or exceed DLC Premium classification

continued

Added by Enrique Perez-Young from EIS 06/25/2021 High Bay Fixtures proposed complies with Tier LT531: Rebate is \$19/fixture (See next page table)

- DLC Premium classification
- >150 LPW
- 70W generates ~13,000 lumens

EIS Proposal Option 1: 414 HB @ \$19/fixture = \$7,866 EIS Proposal Option 2: 488 HB @ \$19/fixture = \$9,272 EIS Proposal Option 3: 414 HB @ \$19/fixture = \$7,866
| Rebate Code | Lumen Range | Minimum Efficacy Requirements | Rebate/Unit Measure |
|-------------|------------------|-------------------------------|---------------------|
| LT514 | 4500 to < 5400 | ≥ 130 LPW < 150 LPW | \$13/fixture |
| LT515 | 5400 to < 6500 | ≥ 130 LPW < 150 LPW | \$13/fixture |
| LT516 | 6500 to < 7800 | ≥ 130 LPW < 150 LPW | \$13/fixture |
| LT517 | 7800 to < 9400 | ≥ 130 LPW < 150 LPW | \$13/fixture |
| LT518 | 9400 to < 11800 | ≥ 130 LPW < 150 LPW | \$13/fixture |
| LT519 | 11800 to < 14800 | ≥ 130 LPW < 150 LPW | \$13/fixture |
| LT520 | 14800 to < 18500 | ≥ 135 LPW < 150 LPW | \$13/fixture |
| LT521 | 18500 to < 23100 | ≥ 135 LPW < 150 LPW | \$25/fixture |
| LT522 | 23100 to < 30000 | ≥ 135 LPW < 150 LPW | \$25/fixture |
| LT523 | 30000 to < 39000 | ≥ 135 LPW < 150 LPW | \$25/fixture |
| LT524 | 39000 to < 50700 | ≥ 140 LPW < 150 LPW | \$25/fixture |
| LT525 | 50700 to < 65900 | ≥ 140 LPW < 150 LPW | \$25/fixture |

Tier 1: Meets or exceeds DLC Premium Classification

Tier 2: Meets or exceeds DLC Premium Classification

| Rebate Code | Lumen Range | Minimum Efficacy Requirements | Rebate/Unit Measure |
|-------------|------------------|-------------------------------|---------------------|
| LT526 | 4500 to < 5400 | ≥ 150 LPW | \$19/fixture |
| LT527 | 5400 to < 6500 | ≥ 150 LPW | \$19/fixture |
| LT528 | 6500 to < 7800 | ≥ 150 LPW | \$19/fixture |
| LT529 | 7800 to < 9400 | ≥ 150 LPW | \$19/fixture |
| LT530 | 9400 to < 11800 | ≥ 150 LPW | \$19/fixture |
| LT531 | 11800 to < 14800 | ≥ 150 LPW | \$19/fixture |
| LT532 | 14800 to < 18500 | ≥ 150 LPW | \$19/fixture |
| LT533 | 18500 to < 23100 | ≥ 150 LPW | \$40/fixture |
| LT534 | 23100 to < 30000 | ≥ 150 LPW | \$40/fixture |
| LT535 | 30000 to < 39000 | ≥ 150 LPW | \$40/fixture |
| LT536 | 39000 to < 50700 | ≥ 150 LPW | \$40/fixture |
| LT537 | 50700 to < 65900 | ≥ 150 LPW | \$40/fixture |









APPENDIX D: Customized Kick Off Meeting Discussion Points and the Photo-Detail of Every Single Fixture/Lamp in the Facility



Imerys Lompoc – Kick Off Meeting Discussion

- 1) Send monthly electric invoices to Enrique for analysis Andrew M, Will be sent next week
- 2) Coordinate best time for on-site visit with electrician to escort Patrick, should have a good timeframe communicated by mid next week.
- 3) Imerys will canvass management and appropriate team members (EH&S) for input re specific areas that need more lights and/or delamping.
- 4) EIS will check PG&E incentives requirements.
- 5) Please send EIS, electronically, or share in printed format when we arrive, plant layout or facility drawing and its areas
 - a) Open discussion of categorization and identification of every area in Imerys own nomenclature, so EIS final lighting design and pricing is associated to Imerys customary terms
 - i) This will help to discuss special treatments, special needs or specific requirements per area.
 - ii) Or if the scope of the project is limited, also to establish the particular area(s) EIS is going to provide the solution.
 - iii) Identify Voltage of the current fixtures (277, 480, etc.) for each facility area, or at least interior/exterior.
- 6) Additional key personnel that should be invited to the kick-off meeting as early as convenient at the plant Tuesday APR-30
 - a) Usually includes time with the Maintenance Manager and the electrician he will assign to us for the audit, but please include all the personnel he deems necessary.
 - b) Since EIS gets into every illuminated area of the plant, usually we can also make a pre-assessment audit for other power demanding opportunities, if there is any interest (e.g. compressed air, boilers, steam, HVAC, etc.)
 - c) Has Imerys had planned any additional lighting, facility expansions or change of in the floor plan in the near future?
 - i) EIS will alwasy consider which fixtures will be a one to one upgrade and/or how many new fixtures and solutions are needed to add to the proposal
- 7) EIS will need to cover these and other questions:
 - a) How many hours per year do they operate (per area)?i) How many shifts (per area)?
 - b) How old is the lighting in the facility (per area or building)?
 - i) What type of lighting technology is currently in use?
 - c) Are occupancy sensors or dimmers in use within the facility?
 - i) Where?
 - ii) Do you need any/additional included for this proposal?
 - d) What is your expected/required payback or ROI for these types of projects
 - e) Confirm if this is a turnkey proposal (material, installation, PM, disposal) or Material Only proposal
 - f) Interested in third party funding (financing) option?
 - i) EIS is able to provide a solution that brings them cash flow positive savings from electricity while providing ECM or EEM

Itinerary:

- Monday APR-29 arrival to Lompoc City in the evening.
 - Tuesday APR-30 ETA to your office @ 9:00am or before if your team is available.
 - o Establish the daily departure from the facility depending on Imerys policies for visitors
 - If/when possible for 24-hour facilities, EIS prefers to have a short run through the areas at night-time to ensure level of illumination (OSHA/MSHA requirements, visibility, comfortability)
- Wednesday APR-31 ETA to the facility and dedicate all the time to complete the audit.
 - Ideally, at the end of the audit, I'll have a meeting with the person in charge of the project and the maintenance manager to clarifications in scope and any Imerys additional expectations. This meeting will also formalize the closing and departure.

Proposal LED Upgrade

Imerys Lompoc CA

2500 San Miguelito Rd, Lompoc, CA, 93436





| General Office | | |
|--------------------|------------------------------------------------|--------------------------------------------------------------------|
| Engineering Office | | |
| Office | Access: | Select one |
| | Deck Ht: | |
| | General Office Engineering Office Office | General Office Engineering Office Office Access: Deck Ht: |

Existing Fixture

Fixture: OTH-INC-75W-1 Description:

Ceiling Type: Suspended - Other

| Qua | ntity | : | 1 |
|-----|-------|---|---|
|-----|-------|---|---|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Rep | ace | Lamp |
|-----------|-----|-----|------|

Brand: 35-Bulbs.com

Part no.: A19-14.5W-40K

Description: A19 / LED / E31 / 4000K / 100-277V

| Ouantity: | 1 |
|-----------|---|
| Quantity. | |

Controls: None

Actual Quantity Installed

Signature





| Area: | General Office | | |
|-------------|--------------------|----------|------------|
| Space Name: | Engineering Office | | |
| Space Type: | Office | Access: | Select one |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Suspended - Other

Existing Fixture

Ceiling Type:

- Fixture: TR-T8-4 ft-32W-2
- Description: Electronic / 1 Ballast



- Quantity: 42
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 42

Controls: None

Actual Quantity Installed

Signature



| Area: | General Office | | |
|-------------|--------------------|----------|------------|
| Space Name: | Engineering Office | | |
| Space Type: | Office | Access: | Select one |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Ceiling Type: Suspended - Other

Existing Fixture

Fixture: WRP-T8-4 ft-32W-2

Description: Electronic / 1 Ballast

| Quantity: | 1 | 1 |
|-----------|---|---|
|-----------|---|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 11

Controls: None

Actual Quantity Installed

Signature





| Area: | General | Office |
|-------|---------|--------|
| | General | OTTICC |

Space Name: EHS

Space Type: Office

Ceiling Ht:

Access: Deck Ht: None

Ceiling Type:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

| Quantity: | 2 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|
| Decision. | replace | Lamp |

Brand: 35-Bulbs.com

Part no.: A19-14.5W-40K

Description: A19 / LED / E31 / 4000K / 100-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Area: | General Office |
|-------|----------------|

Space Name: EHS

Space Type: C

Ceiling Ht:

Office

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



| Quantity: | 10 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: 1 | 0 |
|-------------|---|
|-------------|---|

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | General | Office |
|-------|---------|--------|
| | General | OTTICC |

Space Name: EHS

Space Type: C

Existing Fixture

Ceiling Ht:

Office

TR-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 9

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 9

Controls: None

Actual Quantity Installed

Signature



Space Name: EHS

Space Type: C

Ceiling Ht:

Office

WRP-T12-2 ft-35W-2

Magnetic / 1 Ballast

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 1

Existing Fixture

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST2230
- Description: Linear / 2 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | General | Office |
|-------|---------|--------|
| | General | OTTICC |

Space Name: EHS

Space Type: C

Existing Fixture

Ceiling Ht:

Office

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 48

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 48

Controls: None

Actual Quantity Installed

Signature



General Office

Space Name: Management Office

Space Type:

Area:

Office

Access: Deck Ht: None



Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

- Quantity: 2
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| | | - |
|----------|-----|-----------|
| Decision | Rep | lace Lamp |

- Brand: 35-Bulbs.com
- Part no.: A19-14.5W-40K
- Description: A19 / LED / E31 / 4000K / 100-277V
- Quantity: 2

Controls: None

Actual Quantity Installed

Signature





Area: General Office

Space Type:

Space Name:

Office

Management Office

Access: Deck Ht: None

Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



| Quantity: 66 | |
|--------------|--|
|--------------|--|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 66

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



Area: General Office

Space Name: Management Office

Space Type:

Office

Dock Ht

Access: None

Deck Ht:



Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: TR-T8-4 ft-32W-2

Description: Electronic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 68

Controls: None

Actual Quantity Installed

Signature



Area: General Office

Space Name: Management Office

Space Type:

Office

DockUt

Access: None

Deck Ht:



Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: WRP-T12-2 ft-35W-2

Description: Magnetic / 1 Ballast

Quantity: 1

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

Decision: Replace Retrofit Kit

Brand: Maverick

Part no.: MES-RTST2230

Description: Linear / 2 ft / LED / Retrofit Kit / 30W / 120-277V

| Quantity: | 1 |
|-----------|---|
| | |

Controls: None

Actual Quantity Installed

Signature



Area: General Office

Space Name: Management Office

Space Type: Office

ffice

Access: Deck Ht: None



Ceiling Type:

Ceiling Ht:

Existing Fixture

- Fixture: WRP-T8-4 ft-32W-2
- Description: Electronic / 1 Ballast



- Quantity: 103
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 103

Controls: None

Actual Quantity Installed

Signature



Area: **General Office**

Space Name: Management Office

Space Type: Office

Access: None

Deck Ht:



Ceiling Type:

Ceiling Ht:

Existing Fixture

- WRP-T8-4 ft-32W-2 Fixture:
- Description: Electronic / 1 Ballast



- Quantity: 17
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V Description:

Quantity: 17

Controls: None

Actual Quantity Installed

Signature



Area: General Office

Space Name: Management Office

Space Type:

Office

Access: Deck Ht: None

Ceiling Ht: Ceiling Type:



Existing Fixture

- Fixture: WRP-T8-8 ft-59W-2
- Description: Electronic / 1 Ballast



| Quantity: 8 | 3 |
|-------------|---|
|-------------|---|

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST460
- Description: Linear / 8 ft / LED / Retrofit Kit / 60W / 120-277V

Quantity: 8

Controls: None

Actual Quantity Installed

Signature



| Area: | General Office | | |
|-------------|---------------------|----------|------|
| Space Name: | Quality Control Lab | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

| | - | - | - |
|---|-----|---|---|
| - | 100 | - | - |
| | | | |
| | | | |

Existing Fixture

Fixture: STR-T8-4 ft-32W-2

Description: Electronic / 1 Ballast

| Quantity: | 4 |
|-----------|---|
|-----------|---|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace | Retrofit | Kit |
|-----------|---------|----------|-----|
|-----------|---------|----------|-----|

Brand: Maverick

Part no.: MES-RTST230

Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4 Controls: None

Actual Quantity Installed

Signature



| Area: | General Office |
|-------------|---------------------|
| Space Name: | Quality Control Lab |

Space Type:

Office

Access: Deck Ht: None

Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: TR-T8-4 ft-32W-2

Description: Electronic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 98

Controls: None

Actual Quantity Installed

Signature





| Area: | General Office | | |
|-------------|---------------------|----------|------|
| Space Name: | Quality Control Lab | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

Ceiling Type:

Existing Fixture

Quantity: 4

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | General Office | | |
|---------------|----------------|----------|------|
| Space Name: | Shipping | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | TR-T8-4 ft-32W-2 |
|--------------|------------------------|
| Description: | Electronic / 1 Ballast |

| Ouantity: | 32 |
|-----------|----|
| Quantity. | 52 |

Voltage:

Fixture ht:

Controls: None

Proposed Fixture

| Decision: | Replace | Retrofit Kit | |
|-----------|---------|--------------|--|
| | | | |

Brand: Maverick

Part no.: MES-RTST230

| Description: Linear | / 4 ft / LED / | ' Retrofit Kit / | 30W / 120-277V |
|---------------------|----------------|------------------|----------------|
|---------------------|----------------|------------------|----------------|

Quantity: 32

Controls: None

Actual Quantity Installed

Notes



| Area: | General Office | | |
|---------------|--------------------|----------|------|
| Space Name: | Gatehouse & Scales | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | TR-T8-4 ft-32W-2 |
|--------------|------------------------|
| Description: | Electronic / 1 Ballast |

Quantity: 2

Voltage:

Fixture ht:

Controls: None

Proposed Fixture

| Decision: | Replace Retrofit Kit |
|--------------|-----------------------------------------------------|
| Brand: | Maverick |
| Part no.: | MES-RTST230 |
| Description: | Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V |

| Quantity: | 2 |
|-----------|------|
| Controls: | None |

Actual Quantity Installed

Notes



| Area: | 55 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse B&G | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | 30.000 ft | Deck Ht: | |

Ceiling Type: Metal

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |

- Quantity: 30
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 30

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | 55 Warehouse | | |
|-------------|---------------|----------|------|
| Space Name: | Warehouse C&H | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | 30.000 ft | Deck Ht: | |

Ceiling Type: Metal

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 20
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 20

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | 55 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse D&E | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | 30.000 ft | Deck Ht: | |

Ceiling Type: Metal

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 22
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 22

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| 55 Warehouse | | |
|-----------------|---------------------------------------------------------------|------------------------------------------------------------------|
| Warehouse D&E | | |
| Warehouse Aisle | Access: | None |
| 30.000 ft | Deck Ht: | |
| | 55 Warehouse Warehouse D&E Warehouse Aisle 30.000 ft | 55 WarehouseWarehouse D&EWarehouse AisleAccess:30.000 ftDeck Ht: |

Ceiling Type: Metal

Existing Fixture

Fixture: OTH-INC-75W-1 Description:



- Quantity: 1
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

| Quantity: | 1 |
|-----------|------|
| Controls: | None |

Actual Quantity Installed

Signature



| Area: | 55 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse D&E | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | 30.000 ft | Deck Ht: | |

Ceiling Type: Metal

Existing Fixture

| Fixture: | OTH-LED-19W-1 |
|----------|---------------|

Description: 2700K

- Quantity: 1
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|
| Decision. | replace | Lamp |

- Brand: 35-Bulbs.com
- Part no.: A19-14.5W-40K
- Description: A19 / LED / E31 / 4000K / 100-277V
- Quantity: 1

Controls: None

Actual Quantity Installed

Signature





| Area: | 55 Warehouse | | |
|-------------|-------------------|----------|------|
| Space Name: | Loading Dock Wall | | |
| Space Type: | Loading Dock | Access: | None |
| Ceiling Ht: | 30.000 ft | Deck Ht: | |
| | | | |

Existing Fixture

Ceiling Type:

Fixture: OTH-INC-75W-1 Description:

Metal



| Quantity: | 7 |
|-----------|---|
|-----------|---|

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 7 Controls: None

Actual Quantity Installed

Signature



| Area: | 55 Warehouse | | |
|-------------|--------------|----------|------|
| Space Name: | Outside | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | 30.000 ft | Deck Ht: | |

Ceiling Type: Metal

Existing Fixture

- Fixture: HB-MH-250W-1
- Description: Magnetic / 1 Ballast



- Quantity: 1
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | 62 Warehouse | | |
|---------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | HB-T5-4 tt-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |

| Quantity: | 62 |
|-----------|----|
|-----------|----|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace Fixture |
|--------------|------------------------------------------|
| Brand: | 45-Metrotech |
| Part no.: | MTHBLM-70W01-5005-45 |
| Description: | Highbay / Round / LED / 5000K / 100-277V |

Quantity: 62

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | 55 Warehouse Exterior | | |
|---------------|-----------------------|----------|------|
| Space Name: | Outside Building | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

Fixture: AL-MH-1000W-1

Description: Magnetic / 1 Ballast / 277V



- Voltage: 277V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-300W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | 55 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Outside Building | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Existing Fixture

Ceiling Type:

Fixture:AL-MH-1000W-1Description:Magnetic / 1 Ballast / 277V



Quantity: 1

| Voltage: | 277V |
|----------|------|
|----------|------|

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-300W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | 55 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Outside Building | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Existing Fixture

Ceiling Type:

Fixture: AL-MH-400W-1

Description: Magnetic / 1 Ballast / 277V

Quantity: 2

| Voltage: | 277V |
|----------|------|
|----------|------|

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| D | D I | F ¹ 1 1 1 |
|-----------|---------|------------------------------------|
| Decision: | керіасе | Fixture |

- Brand: 29-MetroTech
- Part no.: MTAPL-150W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Area: | 55 Warehouse Exterior | | |
|---------------|-----------------------|----------|------|
| Space Name: | Outside Building | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

Fixture: FL-LED-40W-1 Description:

| Quantity: | 2 |
|-----------|---|
|-----------|---|

- Voltage:
- Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

- Decision: Keep
- Brand: NA
- Part no.: NA
- Description: NA

| Quantity: | NA |
|-----------|----|
|-----------|----|

Controls: None

Actual Quantity Installed

Signature




| Area: | 55 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Outside Building | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Existing Fixture

Ceiling Type:

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast

Quantity: 4

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature







| Area: | 55 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Scribble | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 6

Controls: None

Actual Quantity Installed

Signature





| Area: | 62 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Loading Dock | | |
| Space Type: | Loading Dock | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Existing Fixture

Ceiling Type:

Fixture: AL-LED-19W-1 Description:

| 05/ | |
|-----|--|
| | |

| Quantity: | 3 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 3 Controls: None

Actual Quantity Installed

Signature



| Area: | 62 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Loading Dock | | |
| Space Type: | Loading Dock | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Existing Fixture

Ceiling Type:

Fixture: AL-LED-45W-1 Description:

| Quantity: | 1 |
|-----------|---|
|-----------|---|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

Decision: Keep

Brand: NA

Part no.: NA

Description: NA

| Quantity: | NA |
|-----------|----|
|-----------|----|

Controls: None

Actual Quantity Installed

Signature





| Area: | 62 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Loading Dock | | |
| Space Type: | Loading Dock | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Existing Fixture

Ceiling Type:

Fixture: FL-LED-40W-1 Description:

| / | Q | |
|---|---|----|
| / | 1 | XI |

| Quantity: | 1 |
|-----------|---|
|-----------|---|

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Keep
- Brand: NA
- Part no.: NA
- Description: NA
- Quantity: NA

Controls: None

Actual Quantity Installed

Signature



| Area: | 62 Warehouse Exterior | | |
|-------------|-----------------------|----------|------|
| Space Name: | Loading Dock | | |
| Space Type: | Loading Dock | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

WP-MH-175W-1

Magnetic / 1 Ballast

Ceiling Type:

Existing Fixture

0

Quantity: 1

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Fixture

Brand:

Part no.: MES-SWP02-55BA2-A-44

- Description: Wall Mount / Security / LED / 55W / 120-277V
- Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | Central Waste |
|-------|---------------|
| | |

OTH-MH-175W-1

Magnetic / 1 Ballast

Space Name: MCC room

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 7

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 7

Controls: None

Actual Quantity Installed

Signature



| Area: | Central Waste | | |
|-------------|---------------|----------|------|
| Space Name: | MCC room | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast

| Quantity: | 4 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | Central Waste | | |
|-------------|---------------|----------|------|
| Space Name: | CW | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: AL-INC-75W-1 Description:



| Quantity: | 1 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

| Quantity: | 1 |
|-----------|-----|
| Controls | Non |

Controls: None

Actual Quantity Installed

Signature



| Area: | Central Waste | | |
|-------------|---------------|----------|------|
| Space Name: | CW | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: FL-MH-175W-1

Description: Magnetic / 1 Ballast

Quantity: 2

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| D t. t | D | — · · · · · · |
|-----------|---------|----------------------|
| Decision: | керіасе | Fixture |

- Brand: 29-MetroTech
- Part no.: MTAPL-50W01-50T3-AM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Area: | Central Waste | | |
|-------------|---------------|----------|------|
| Space Name: | CW | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: HB-MH-175W-1

Description: Magnetic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|------------|
| 00010111 | reprace | 1 17(00110 |

Brand: 45-Metrotech

Part no.: MTHBLM-70W01-5005-45

Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature





| Area: | Central Waste | | |
|-------------|---------------|----------|------|
| Space Name: | CW | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature





| Area: | Central Waste | | |
|-------------|---------------|----------|------|
| Space Name: | CW | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast



- Quantity: 4
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|-------------|--------------------|----------|------|
| Space Name: | Manufacturer Floor | | |
| Space Type: | Manufacturer Floor | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

OTH-MH-175W-1

Magnetic / 1 Ballast

Ceiling Type:

Existing Fixture

Quantity: 18

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| D t. t | D | — · · · · · · |
|-----------|---------|----------------------|
| Decision: | керіасе | Fixture |

- Brand: 29-MetroTech
- Part no.: MTAPL-50W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 18

Controls: None

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|-------------|--------------------|----------|------|
| Space Name: | Manufacturer Floor | | |
| Space Type: | Manufacturer Floor | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Ceiling Type:

Existing Fixture

Fixture: OTH-T12-8 ft-60W-2

Description: Magnetic / 1 Ballast

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST460
- Description: Linear / 8 ft / LED / Retrofit Kit / 60W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|-------------|--------------------|----------|------|
| Space Name: | Manufacturer Floor | | |
| Space Type: | Manufacturer Floor | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Existing Fixture

Ceiling Type:

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 6

Controls: None

Actual Quantity Installed

Signature





| Area: | 7 Kiln | | |
|---------------|------------|----------|------|
| Space Name: | 7 Kiln MCC | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | VT-T5-4 | ft-54W-2 |
|----------|---------|----------|
| | | |

Description: Electronic / 1 Ballast

| Quantity: | 19 |
|-----------|----|
|-----------|----|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 19

Controls: None

Actual Quantity Installed

Notes

Signature



| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Wet | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Ceiling Type:

Existing Fixture

Fixture: AL-MH-1000W-1

Description: Magnetic / 1 Ballast / 277V



- Quantity: 1
- Voltage: 277V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-300W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|---------------|--------|----------|------|
| Space Name: | 7 Wet | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | HB-MH-250W-1 |
|--------------|--------------------|
| Description: | Magnetic / 1 Balla |

Magnetic / 1 Ballast

| Quantity: | 2 |
|-----------|---|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace Fixture |
|-----------|----------------------|
| Brand: | 45-Metrotech |
| Part no.: | MTHBLM-70W01-5005-45 |

MTHBLM-70W01-5005-45 Description: Highbay / Round / LED / 5000K / 100-277V

| Quantity: | 2 |
|-----------|------|
| Controls: | None |

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Wet | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 5
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 5

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature



| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Wet | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Ceiling Type:

Existing Fixture

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast

| Quantity: | 28 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 28

Controls: None

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Wet | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 72

Controls: None

Actual Quantity Installed

Signature





| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Dry | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Ceiling Type:

Existing Fixture

Fixture: FL-MH-175W-1

Description: Magnetic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|
| Decision. | replace | Incure |

- Brand: 29-MetroTech
- Part no.: MTAPL-50W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature





| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Dry | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Ceiling Type:

Existing Fixture

Fixture: HB-MH-175W-1

Description: Magnetic / 1 Ballast

Quantity: 1

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|------------|
| 00010111 | reprace | 1 17(00110 |

- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|---------------|--------|----------|------|
| Space Name: | 7 Dry | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | OTH-MH-175W-1 |
|----------|---------------|
| | |

Description: Magnetic / 1 Ballast

| Quantity: | 1 |
|-----------|---|
|-----------|---|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace Lamp |
|-----------|---------------------|
| Brand: | YouLumi |
| Part no.: | YL-C040SLG4-40W-57K |

Description: Corn Cob / LED / 40W / 5700K / 120-277V

| Quantity: | 1 |
|-----------|------|
| Controls: | None |

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Dry | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

VT-T5-4 ft-54W-2

Electronic / 1 Ballast

Ceiling Type:

Existing Fixture

Quantity: 64

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

Brand: Maverick

Part no.: MES-RTST230

Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 64

Controls: None

Actual Quantity Installed

Signature



| Area: | 7 Kiln | | |
|-------------|--------|----------|------|
| Space Name: | 7 Dry | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

WP-MH-175W-1

Magnetic / 1 Ballast

Ceiling Type:

Existing Fixture

Quantity: 1

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|
| | | |

Brand:

Part no.: MES-SWP02-55BA2-A-44

Description: Wall Mount / Security / LED / 55W / 120-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area. | 6 Viln |
|-------|--------|
| AICu. | |

Space Name: 6 Dry A&B Office

Space Type:

Ceiling Ht:

e: Office

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: STR-LED-35W-1 Description:



- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Keep
- Brand: NA
- Part no.: NA
- Description: NA
- Quantity: NA

Controls: None

Actual Quantity Installed

Signature





| Area | 6 Kiln |
|-------|--------|
| Alca. | |

| Space | Name: | 6 | Drv | A&B | Office |
|-------|-------|---|-----|------|--------|
| 00000 | | 0 | | 1100 | OTTICC |

Space Type:

e: Office

TR-T8-4 ft-32W-2

Electronic / 1 Ballast

Access: Deck Ht: None

Ceiling Type:

Existing Fixture

Ceiling Ht:

Quantity: 4

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | 6 Kiln | | |
|---------------|----------------|----------|------|
| Space Name: | 6 Dry Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | NA |
|--------------|----|
| Description: | NA |

| Quantity: | NA |
|-------------|----|
| Voltage: | NA |
| Fixture ht: | NA |

Controls: NA

Proposed Fixture

| Decision: | Replace Lamp |
|--------------|-----------------------------------------|
| Brand: | YouLumi |
| Part no.: | YL-C040SLG4-40W-57K |
| Description: | Corn Cob / LED / 40W / 5700K / 120-277V |

| Quantity: | 1 |
|-----------|------|
| Controls: | None |

Actual Quantity Installed

Signature



Area: 6 Kiln

Space Name: Exterior Walls

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: DL-LED-19W-1 Description:



- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Keep
- Brand: NA
- Part no.: NA
- Description: NA
- Quantity: NA

Controls: None

Actual Quantity Installed

Signature





| Area: | 6 Kiln |
|------------|--------|
| 7.11.0.011 | |

Space Name: Exterior Walls

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

| Quantity: 6 | tity: 6 |
|-------------|---------|
|-------------|---------|

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

OTH-INC-100W-1

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 6 Controls: None

Actual Quantity Installed

Signature



| Area: 6 | Kiln |
|---------|------|
|---------|------|

Space Name: Exterior Walls

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 9

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

OTH-MH-175W-1

Magnetic / 1 Ballast

Quantity: 9

Controls: None

Actual Quantity Installed

Signature



| Aros | 6 Vilo |
|-------|--------|
| Alea. | |

Space Name: 6 Dry Maintenance

Space Type:

Mechanical

STR-T8-8 ft-86W-2

Electronic / 1 Ballast

Access: Deck Ht: None

Ceiling Type:

Existing Fixture

Ceiling Ht:

Quantity: 16

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST460
- Description: Linear / 8 ft / LED / Retrofit Kit / 60W / 120-277V

Quantity: 16

Controls: None

Actual Quantity Installed

Signature



| Aros | 6 Vilo |
|-------|--------|
| Alea. | |

Space Type:

Mechanical

VT-T5-4 ft-54W-2

Electronic / 1 Ballast

Access: Deck Ht: None

Ceiling Type:

Existing Fixture

Ceiling Ht:

Quantity: 1

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | 6 Kiln |
|-------|--------|

Space Name: 6 Dry Control Room

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: HB-MH-250W-1

Description: Magnetic / 1 Ballast

Quantity: 2

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Brand: 45-Metrotech

Part no.: MTHBLM-70W01-5005-45

Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature




Area: 6 Kiln

Space Name: 6 Dry Control Room

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 4

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|
| | | |

Brand: YouLumi

Part no.: YL-C040SLG4-40W-57K

Description: Corn Cob / LED / 40W / 5700K / 120-277V

OTH-MH-175W-1

Magnetic / 1 Ballast

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Aroa | C | Viln |
|------|---|-------|
| Alea | 0 | NIIII |

Space Name: 6 Dry Control Room

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

- Fixture: STR-T12-4 ft-34W-2
- Description: Magnetic / 1 Ballast



Quantity: 2

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature



| Area | 6 | Kiln |
|---------|---|-------|
| / li Cu | U | NIIII |

Space Name: 6 Dry Control Room

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 2

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Retrofit Kit

STR-T8-4 ft-32W-2

Electronic / 1 Ballast

- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature



| Area: | 6 Kiln |
|-------|--------|

Space Name: 6 Dry Control Room

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 11

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

STR-T8-8 ft-86W-2

Electronic / 1 Ballast

Brand: Maverick

Part no.: MES-RTST460

Description: Linear / 8 ft / LED / Retrofit Kit / 60W / 120-277V

Quantity: 11

Controls: None

Actual Quantity Installed

Signature



| Area: | 6 Kiln |
|-------|--------|

Space Name: 6 Dry Control Room

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture WRP-T8-4 ft-32W-2 Fixture: Description: Electronic / 1 Ballast Quantity: 2 Voltage: Fixture ht: 0.000 ft Controls: None **Proposed Fixture** Decision: Replace Retrofit Kit Brand: Maverick Part no.: MES-RTST230 Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V Description: Quantity: 2 Controls: None **Actual Quantity Installed** Notes

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: DL-LED-19W-1 Description:



| Quantity: | 3 |
|-----------|---|
|-----------|---|

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Keep
- Brand: NA
- Part no.: NA
- Description: NA
- Quantity: NA

Controls: None

Actual Quantity Installed

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

- Fixture: HB-MH-250W-1
- Description: Magnetic / 1 Ballast



- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 10

Controls: None

Actual Quantity Installed

Signature





| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 57
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 57

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

OTH-INC-100W-1

Ceiling Type:

Existing Fixture

Quantity: 9

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace Lam | р |
|-----------|-------------|---|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 9 Controls: None

Actual Quantity Installed

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: OTH-INC-75W-1 Description:

| Quantity: | 9 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Rep | lace Lamp |
|-----------|-----|-----------|

Brand: 35-Bulbs.com

Part no.: A19-14.5W-40K

Description: A19 / LED / E31 / 4000K / 100-277V

Quantity: 9

Controls: None

Actual Quantity Installed

Signature





| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast

| Quantity: | 11 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 11

Controls: None

Actual Quantity Installed

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 18
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 18

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

- Fixture: STR-T8-4 ft-32W-2
- Description: Electronic / 1 Ballast



Quantity: 2

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

- Fixture: STR-T8-8 ft-86W-2
- Description: Electronic / 1 Ballast



- Quantity: 8
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST460
- Description: Linear / 8 ft / LED / Retrofit Kit / 60W / 120-277V

Quantity: 8

Controls: None

Actual Quantity Installed

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-1

Description: Electronic / 1 Ballast



- Quantity: 82
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 82

Controls: None

Actual Quantity Installed

Signature



| Area: | 46 Warehouse | | |
|-------------|-----------------|----------|------|
| Space Name: | Warehouse Aisle | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast

| Quantity: | 17 |
|-----------|----|
|-----------|----|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

Decision: Replace Retrofit Kit

Brand: Maverick

Part no.: MES-RTST230

Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 17

Controls: None

Actual Quantity Installed

Signature





Space Name: Parking & Roads

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: AL-MH-1000W-1

Description: Magnetic / 1 Ballast / 480V



- Voltage: 480V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 09-MetroTech
- Part no.: MTALSB-3009-50T3YM-09
- Description: Area Light / Shoebox / LED / 5000K / 200-480V

Quantity: 20

Controls: None

Actual Quantity Installed

Signature





Space Name: Parking & Roads

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: AL-MH-400W-1

Description: Magnetic / 1 Ballast / 480V

Quantity: 3

- Voltage: 480V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 09-MetroTech
- Part no.: MTALSB-1509-50T3AM-09
- Description: Area Light / Shoebox / LED / 5000K / 200-480V

Quantity: 3

Controls: None

Actual Quantity Installed

Signature







| Area: | Exterior | | |
|-------------|-----------------|----------|------|
| Space Name: | Parking & Roads | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| | | | |

Ceiling Type:

Existing Fixture

Fixture: AL-MH-400W-1

Description: Magnetic / 1 Ballast / 480V

Quantity: 1

- Voltage: 480V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 09-MetroTech
- Part no.: MTALSB-1509-50T3DM-09
- Description: Area Light / Shoebox / LED / 5000K / 200-480V
- Quantity: 1
- Controls: None

Actual Quantity Installed

Signature



| _ | | | |
|------|----|----|-----|
| Page | 88 | ot | 200 |





Space Name: Parking & Roads

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 1

Existing Fixture

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

OTH-MH-175W-1

Magnetic / 1 Ballast

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



Space Name: Parking & Roads

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: PGR-MH-400W-1

Description: Magnetic / 1 Ballast / 480V

Quantity: 2

- Voltage: 480V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 09-MetroTech
- Part no.: MTALSB-1509-50T3AM-09
- Description: Area Light / Shoebox / LED / 5000K / 200-480V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Jucan Specialities |
|--------------------|
|--------------------|

Space Name: 2266 Warehouse

Space Type:

Warehouse Aisle

Access: None

Deck Ht:

Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: HB-MH-250W-1

Description: Magnetic / 1 Ballast

Quantity: 1

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V
- Quantity: 1

Controls: None

Actual Quantity Installed

Signature





| Area: | Specialties | |
|-------------|-----------------|----------|
| Space Name: | 2266 Warehouse | |
| Space Type: | Warehouse Aisle | Access: |
| Ceiling Ht: | | Deck Ht: |

HB-T5-4 ft-54W-4

Electronic / 1 Ballast / Occupancy / Wireguard

Quantity: 8

Ceiling Type:

Existing Fixture

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 8

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

None

Signature



Space Name: 2266 Warehouse

Space Type:

Warehouse Aisle

Access: None

Deck Ht:

Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

| Quantity: | 10 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Lamp

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 10

Controls: None

Actual Quantity Installed

Signature





| Area: | Specialties | | |
|-------------|-----------------|----------|------|
| Space Name: | 2266 Warehouse | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

STR-T12-4 ft-34W-2

Magnetic / 1 Ballast

Ceiling Type:

Description:

Existing Fixture

| Quantity: 6 | ; |
|-------------|---|
|-------------|---|

Voltage:

Fixture:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 6

Controls: None

Actual Quantity Installed

Signature



| Area: | Specialties | |
|-------------|-----------------|---------|
| Space Name: | 2266 Warehouse | |
| Space Type: | Warehouse Aisle | Access: |

Access: None

Deck Ht:

Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 54
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 54 | |
|-----------|----|--|
| | | |

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Specialties | | |
|-------------|-----------------|----------|------|
| Space Name: | 2266 Warehouse | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture STR-T8-4 ft-32W-2 Fixture: Description: Electronic / 1 Ballast Quantity: 1 Voltage: Fixture ht: 0.000 ft Controls: None **Proposed Fixture** Decision: Replace Retrofit Kit Brand: Maverick Part no.: MES-RTST230 Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V Description: Quantity: 1 Controls: None **Actual Quantity Installed** Notes Signature



| Area: | Specialties | | |
|-------------|-----------------|----------|------|
| Space Name: | 2266 Warehouse | | |
| Space Type: | Warehouse Aisle | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: TR-T8-4 ft-32W-2

Description: Electronic / 1 Ballast

| Quantity: | 16 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 16

Controls: None

Actual Quantity Installed

Signature



Space Name: 2266 WH Exterior

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: AL-INC-75W-1 Description:

| Quantity: | 3 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 3 Controls: None

Actual Quantity Installed

Signature





| Area: | Specialties | | |
|-------------|------------------|----------|------|
| Space Name: | 2266 WH Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: AL-MH-1000W-1

Description: Magnetic / 1 Ballast / 277V

Quantity: 1

| Voltage: | 277V |
|----------|------|
| vonage. | |

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-300W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: Specialties | |
|-------------------|--|
|-------------------|--|

2266 WH Exterior

Space Name:

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture:AL-MH-1000W-1Description:Magnetic / 1 Ballast / 277V



Quantity: 2

| Voltage: 27 | 77V |
|-------------|-----|
|-------------|-----|

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| D | D | — : |
|-----------|---------|------------|
| Decision: | керіасе | Fixture |

- Brand: 29-MetroTech
- Part no.: MTAPL-300W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature



| Area: | Specialties |
|-------|-------------|

Space Name: 2266 WH Exterior

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: OTH-INC-75W-1 Description:

| Quantity: | 2 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 2 Controls: None

Actual Quantity Installed

Signature





| Speciallies |
|-------------|
|-------------|

Space Name: 2266 WH Exterior

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

| Quantity: | 10 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 10

Controls: None

Actual Quantity Installed

Signature





Space Name: 2266 WH Exterior

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast

Quantity: 2

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Area: | Specialties |
|-------|-------------|

Space Name: 2266 WH Exterior

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 1

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Fixture

Brand:

Part no.: MES-SWP02-55BA2-A-44

WP-MH-175W-1

Magnetic / 1 Ballast

Description: Wall Mount / Security / LED / 55W / 120-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | Specialties |
|-------|-------------|
| | |

Space Name: Specialties WH

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture:HB-T5-4 ft-54W-4Description:Electronic / 1 Ballast / Occupancy / Wireguard



| Quantity: <u>1</u> | .9 |
|--------------------|----|
|--------------------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 19

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature


| opeerancee | Area: | Specialties |
|------------|-------|-------------|
|------------|-------|-------------|

Space Name: Specialties WH

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

- Quantity: 71
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 71

Controls: None

Actual Quantity Installed

Signature





| Area: | Specialties |
|-------------|----------------|
| Space Name: | Specialties WH |

OTH-MH-175W-1

Magnetic / 1 Ballast

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 2

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature



| Area: | Specialties | |
|-------------|----------------|----------|
| Space Name: | Specialties WH | |
| Space Type: | | Access: |
| Ceiling Ht: | | Deck Ht: |

Ceiling Type:

Existing Fixture

| Fixture: STR-T8-4 ft-32W-1 | |
|----------------------------|--|
|----------------------------|--|

Description: Electronic / 1 Ballast / Occupancy



| Quantity: | 10 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 10

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature

Notes

None



| Area: | Specialties | |
|-------------|----------------|----------|
| Space Name: | Specialties WH | |
| Space Type: | | Access: |
| Ceiling Ht: | | Deck Ht: |

Ceiling Type:

Fixture: WP-MH-175W-1

Existing Fixture

Description: Magnetic / 1 Ballast

Quantity: 2

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Fixture

Brand:

Part no.: MES-SWP02-55BA2-A-44

Description: Wall Mount / Security / LED / 55W / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature

Notes

None



Specialties WH Exterior

Space Name: Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: AL-LED-18W-1 Description:

| Quantity: | 4 |
|-----------|---|
|-----------|---|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

Decision: Keep

Brand: NA

Part no.: NA

Description: NA

Quantity: NA

Controls: None

Actual Quantity Installed

Signature





| Area: | Specialties | | |
|-------------|-------------------------|----------|------|
| Space Name: | Specialties WH Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: FL-INC-65W-1 Description:

| - | |
|---|---|
| | 1 |
| | |
| 1 | |

| Quantity: | 3 |
|-----------|---|
|-----------|---|

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 3 Controls: None

Actual Quantity Installed

Signature



Specialties WH Exterior

Space Name: Space Type:

. ,.

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: OTH-INC-100W-1 Description:



| Quantity: | 16 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Rep | lace | Lamp |
|-----------|-----|------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 16

Controls: None

Actual Quantity Installed

Signature



| Area: | Specialties | | |
|-------------|-------------------------|----------|------|
| Space Name: | Specialties WH Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | OTH-LED-19W-1 |
|----------|---------------|

Description: 2700K

| Quantity: | 4 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 4 Controls: None

Actual Quantity Installed

Signature





Space Name: Contractor Trailer

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 4

Existing Fixture

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Retrofit Kit

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Are | a: | | |
|-----|----|--|--|
| | | | |

Space Name: Silicate Maintenance Shop

Silicate plant

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

| Quantity: | 6 |
|-----------|---|
|-----------|---|

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 6 Controls: None

Actual Quantity Installed

Signature





| Area | • |
|------|---|
| | |

Space Name: Silicate Maintenance Shop

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy

Silicate plant



- Quantity: 26
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 26 |
|-----------|----|
|-----------|----|

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Silicate | plant |
|-------|----------|-------|
| | | |

Space Name: Silicate Maintenance Shop

STR-T8-4 ft-32W-2

Electronic / 1 Ballast

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 3

Existing Fixture

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 3

Controls: None

Actual Quantity Installed

Signature



| Area: | Silicate plant |
|-------------|---------------------------|
| Space Name: | Silicate Maintenance Shop |

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Quantity:

Existing Fixture

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

4

WRP-T8-8 ft-59W-2

Electronic / 1 Ballast

Brand: Maverick

Part no.: MES-RTST460

Linear / 8 ft / LED / Retrofit Kit / 60W / 120-277V Description:

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | Silicate plant | | |
|-------------|-----------------|----------|------|
| Space Name: | Processing Area | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: AL-MH-1000W-1

Description: Magnetic / 1 Ballast / 277V

Quantity: 3

- Voltage: 277V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-300W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 3

Controls: None

Actual Quantity Installed

Signature





| Area: | Silicate plant |
|-------------|-----------------|
| Space Name: | Processing Area |

HB-MH-175W-1

Magnetic / 1 Ballast

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 1

Voltage:

Fixture:

Description:

Fixture ht:

Controls: None

Proposed Fixture

| Decision: | Replace Fixture |
|-----------|-----------------|

Brand: 45-Metrotech

Part no.: MTHBLM-70W01-5005-45

Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | Silicate | plant |
|-------|----------|-------|
| | | |

Space Name: Processing Area

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 1
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 1

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature



| Area: | Silicate plant | | |
|---------------|-----------------|----------|------|
| Space Name: | Processing Area | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture Fixture: OTH-INC-75W-1 Description: Quantity: 3 Voltage: Fixture ht: 0.000 ft Controls: None **Proposed Fixture** Decision: **Replace Lamp** Brand: MTYL Part no.: YL-C030SLG4-30W-57K Corn Cob / LED / Internal Driver / 5700K / 120-277V Description: Quantity: 3 Controls: None

Actual Quantity Installed

Signature



Space Name: Processing Area

Space Type:

Ceiling Ht:

Deck Ht:

Access:

None

Ceiling Type:

| Existing Fixtu | ure | |
|----------------|-----------------------------------------------------|-----|
| Fixture: | OTH-LED-19W-1 | |
| Description: | | |
| | | 4 |
| Quantity: | 154 | SEN |
| Voltage: | | |
| Fixture ht: | | |
| Controls: | None | |
| Proposed Fix | kture | |
| Decision: | Replace Lamp | |
| Brand: | MTYL | |
| Part no.: | YL-C030SLG4-30W-57K | |
| Description: | Corn Cob / LED / Internal Driver / 5700K / 120-277V | |
| | | |
| Quantity: | 154 | |
| Controls: | None | |
| Actual Quant | tity Installed Notes | |

Signature



| Area: | Silicate plant |
|-------|----------------|

Space Name: Processing Area

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Signature

Existing Fixture OTH-LED-19W-1 Fixture: Description: Quantity: 65 Voltage: Fixture ht: Controls: None **Proposed Fixture** Decision: **Replace Lamp** Brand: MTYL Part no.: YL-C030SLG4-30W-57K Corn Cob / LED / Internal Driver / 5700K / 120-277V Description: Quantity: 65 Controls: None **Actual Quantity Installed** Notes

Page **124** of **200**



| Area: | Silicate | plant |
|-------|----------|-------|
| 11001 | Jincate | plant |

Space Name: Processing Area

OTH-MH-175W-1

Magnetic / 1 Ballast

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 2

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature



| A | | |
|-------|----------|-------|
| Area: | Silicate | plant |

Space Name: Processing Area

Space Type:

Ceiling Ht:

Access: None Deck Ht:

Ceiling Type:

Existing Fixture

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Area: | Silicate plant | | |
|-------------|-----------------|----------|------|
| Space Name: | Processing Area | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 36
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 36 |
|-----------|----|
|-----------|----|

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



Space Name: Processing Area

VT-T5-4 ft-54W-2

Electronic / 1 Ballast

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 22

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 22

Controls: None

Actual Quantity Installed

Signature



| Area: | Silicate plant |
|-------|----------------|
| | |

Space Name: Processing Area

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 7

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Fixture

Brand:

Part no.: MES-SWP02-80BA2-A-44

WP-MH-250W-1

Magnetic / 1 Ballast

Description: Wall Mount / Security / LED / 80W / 120-277V

Quantity: 7

Controls: None

Actual Quantity Installed

Signature



| Area: | Silicate plant | | |
|---------------|----------------------------|----------|------|
| Space Name: | Silicate Building Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | NA |
|--------------|----|
| Description: | NA |

| Quantity: | NA |
|-------------|----|
| Voltage: | NA |
| Fixture ht: | NA |
| Controls: | NA |

Proposed Fixture

| Decision: | Replace Fixture |
|--------------|-----------------------------------------------|
| Brand: | 29-MetroTech |
| Part no.: | MTAPL-50W01-50T3-YM-29 |
| Description: | Area Light / Shoebox / LED / 5000K / 100-277V |

Quantity: 3 Controls: None

Actual Quantity Installed

Notes

Signature



| Area: | Silicate | plant | |
|-------------|----------|----------|----------|
| Space Name: | Silicate | Building | Exterior |

Space Type: Access: Ceiling Ht:

Deck Ht:

None

Ceiling Type:

Existing Fixture

- OTH-LED-19W-1 Fixture:
- Description: 2700K
- Quantity: 1
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: **Replace Lamp**
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Corn Cob / LED / Internal Driver / 5700K / 120-277V Description:
- Quantity: 1

Controls: None

Actual Quantity Installed

Signature





| Area: | Silicate plant | |
|-------------|----------------------------|-------|
| Space Name: | Silicate Building Exterior | |
| Space Type: | | Acces |

Access: None

Deck Ht:

Ceiling Ht: Ceiling Type:

Existing Fixture

Fixture: WP-MH-175W-1

Description: Magnetic / 1 Ballast

Quantity: 2

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Fixture

Brand:

Part no.: MES-SWP02-55BA2-A-44

Description: Wall Mount / Security / LED / 55W / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





Area: Silicate plant

Silicate Warehouse

Space Name:

Space Type:

Ceiling Ht:

Access:

Deck Ht:

None



Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|-----------|------------------|
| TIMUUT CI | |

| Description: | Electronic / 1 | Ballast / Occupancy | / Wireguard |
|--------------|----------------|---------------------|-------------|
|--------------|----------------|---------------------|-------------|

| Quantity: | 20 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 20

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature



Area: Silicate plant

Space Name: Silicate Warehouse

Space Type:

Ceiling Ht:

Ceiling Type:



Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast

| Quantity: | 28 |
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 28

Controls: None

Actual Quantity Installed

Signature

Notes



Access:

Deck Ht:

None



| Area: | Silicate plant | | |
|---------------|------------------------|----------|------|
| Space Name: | Silicate Tanks Offices | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | STR-T12-4 | ft-34W-2 |
|----------|-----------|----------|
| | | |

Description: Magnetic / 1 Ballast

| Quanti | ty: | 4 |
|--------|-----|---|
|--------|-----|---|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace Retrofit Kit |
|-----------|----------------------|
| Brand: | Maverick |
| Part no.: | MES-RTST230 |

Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

| Quantity: | 4 |
|-----------|------|
| Controls: | None |

Actual Quantity Installed

Notes

Signature



| Area: | Silicate | plant |
|-------|----------|-----------|
| | | 10.000.00 |

Space Name: Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy

Silicate Tanks Offices



| Quantity: | 36 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 36

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Silicate plant |
|-------------|------------------------|
| Space Name: | Silicate Tanks Offices |

TR-T8-4 ft-32W-2

Electronic / 1 Ballast

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 12

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

Brand: Maverick

Part no.: MES-RTST230

Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 12

Controls: None

Actual Quantity Installed

Signature



| Area: | Silicate plant | | |
|-------------|------------------------|----------|------|
| Space Name: | Silicate Tanks Offices | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

WP-MH-175W-1

Magnetic / 1 Ballast

Ceiling Type:

Existing Fixture

Quantity: 1

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Fixture

Brand:

Part no.: MES-SWP02-55BA2-A-44

Description: Wall Mount / Security / LED / 55W / 120-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | Silicate plant | | |
|-------------|------------------------|----------|------|
| Space Name: | Silicate Tanks Offices | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

Existing Fixture

Ceiling Type:

Quantity: 8

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 8

Controls: None

Actual Quantity Installed

Signature



Area: **Celpure Plant**

Space Name: Celpure

Space Type:

Ceiling Ht:

Ceiling Type:



Existing Fixture

| Fixture: | HB-T5-4 | ft-54W-4 |
|------------|----------|--------------|
| I IALUI C. | 110 10 1 | 10 0 1 0 0 1 |

| Description: | Electronic / | 1 Ballast / | Occupancy | / Wireguard |
|--------------|--------------|-------------|-----------|-------------|
|--------------|--------------|-------------|-----------|-------------|

Access:

Deck Ht:

None

| Quantity: | 36 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: **Replace Fixture**
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Highbay / Round / LED / 5000K / 100-277V Description:

Quantity: 36

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature



Area: Celpure Plant

Space Name: Celpure

Space Type:

Ceiling Ht:

Ceiling Type:



Existing Fixture

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast

Quantity: 8

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 8

Controls: None

Actual Quantity Installed

Signature

Notes



Access:

Deck Ht:

None


Area: Celpure Plant

Space Name: Celpure

Space Type:

Ceiling Ht:

Ceiling Type:



Existing Fixture

Fixture: STR-T8-4 ft-32W-2

Description: Electronic / 1 Ballast / Occupancy

Access:

Deck Ht:

None



- Quantity: 16
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

| Quantity: | 16 |
|-----------|----|
|-----------|----|

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



Area: Celpure Plant

Space Name: Celpure

Space Type:

Ceiling Ht:

Ceiling Type:



Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast

| Quantity: | 49 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 49

Controls: None

Actual Quantity Installed

Signature

Notes



Access:

Deck Ht:

None



| Area: | Celpure | Plant |
|-------|---------|-------|
|-------|---------|-------|

Space Name: Celpure

Space Type:

Ceiling Ht:

Access: None

Deck Ht:



Ceiling Type:

Existing Fixture

Fixture: WP-MH-250W-1

Description: Magnetic / 1 Ballast

Quantity: 2

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Replace Fixture |
|--------------|----------------------------------------------|
| Brand: | |
| Part no.: | MES-SWP02-80BA2-A-44 |
| Description: | Wall Mount / Security / LED / 80W / 120-277V |

Quantity: 2 Controls: None

Actual Quantity Installed

Notes



Area: Celpure Plant

Space Name: Celpure Exterior

Space Type:

Ceiling Ht:

Access: None

Deck Ht:



Ceiling Type:

Existing Fixture

Fixture: AL-MH-400W-1

Description: Magnetic / 1 Ballast / 277V



- Voltage: 277V
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-150W01-50T3-AM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Aros | Lockors |
|-------|---------|
| Alea. | LUCKEIS |

Space Name: Breakroom Building

Space Type:

Restroom

Deck Ht:

Access:

None

Ceiling Type:

Ceiling Ht:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

- Quantity: 5
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 5 Controls: None

Actual Quantity Installed

Signature





| Aros | Lockors |
|-------|---------|
| Alea. | LUCKEIS |

Space Name: Breakroom Building

Space Type:

Restroom

STR-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

Access:

None

Ceiling Type:

Existing Fixture

Ceiling Ht:

Quantity: 10

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 10

Controls: None

Actual Quantity Installed

Signature



| Aros | Lockors |
|-------|---------|
| Alea. | LUCKEIS |

Space Name: Breakroom Building

Space Type:

Restroom

TR-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

Access:

None

Ceiling Type:

Existing Fixture

Ceiling Ht:

Quantity: 15

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 15

Controls: None

Actual Quantity Installed

Signature



| Aros | Lockors |
|-------|---------|
| Alea. | LUCKEIS |

Space Name: Breakroom Building

Space Type:

Restroom

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

Access:

None

Ceiling Type:

Existing Fixture

Ceiling Ht:

Quantity: 5

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 5

Controls: None

Actual Quantity Installed

Signature



| Area: | Q&M | | |
|---------------|------------|----------|------|
| Space Name: | Q&M Office | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | TR-T8-4 ft-32W-2 |
|--------------|------------------------|
| Description: | Electronic / 1 Ballast |

| Quantity: | 50 |
|-----------|----|
|-----------|----|

Voltage:

Fixture ht:

Controls: None

Proposed Fixture

| Decision: Repla | e Retrofit Kit |
|-----------------|----------------|
|-----------------|----------------|

Brand: Maverick

Part no.: MES-RTST230

Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

| Quantity: | 50 |
|-----------|----|
| | |

Controls: None

Actual Quantity Installed

Notes



| Area: | Q&M | | |
|---------------|-----------------|----------|------|
| Space Name: | Q&M Maintenance | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | STR-T8-4 ft-32W-1 |
|----------|-------------------|
| | |

Description: Electronic / 1 Ballast

| Quantity: | 15 |
|-----------|----|
|-----------|----|

Voltage:

Fixture ht:

Controls: None

Proposed Fixture

| Decision: Replace Retrofit Kit | |
|--------------------------------|--|
|--------------------------------|--|

Brand: Maverick

Part no.: MES-RTST124

Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 15

Controls: None

Actual Quantity Installed

Notes



| Area: | Q&M | | |
|---------------|------------|----------|------|
| Space Name: | Greenhouse | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy |

- Quantity: 6
- Voltage:
- Fixture ht:
- Controls: None

Proposed Fixture

| Decision: | Replace Fixture |
|--------------|------------------------------------------|
| Brand: | 45-Metrotech |
| Part no.: | MTHBLM-70W01-5005-45 |
| Description: | Highbay / Round / LED / 5000K / 100-277V |

| Quantity: | 6 |
|-----------|----------------------------------|
| Controls: | 45-MetroTech/MTHBLM-MotionSensor |

Actual Quantity Installed

Notes



| Area: | Q&M | | |
|---------------|-----------------|----------|------|
| Space Name: | Q&M-Maintenance | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy |

| Quantity: | 9 |
|-----------|---|
|-----------|---|

Voltage:

Fixture ht:

Controls: None

Proposed Fixture

| Decision: | Replace Fixture |
|--------------|------------------------------------------|
| Brand: | 45-Metrotech |
| Part no.: | MTHBLM-70W01-5005-45 |
| Description: | Highbay / Round / LED / 5000K / 100-277V |

Quantity:9Controls:45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Heavy Duty Garage | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: AL-MH-1000W-1

Description: Magnetic / 1 Ballast / 277V



Quantity: 9

| Voltage: | 277V |
|----------|------|
|----------|------|

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-300W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 9

Controls: None

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Heavy Duty Garage | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 14
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 14

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Heavy Duty Garage | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | OIH-LED-19W-1 |
|----------|---------------|

Description: 2700K

| Quantity: | 5 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|
|-----------|---------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 5 Controls: None

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Heavy Duty Garage | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



| Quantity: | 27 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 27

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Light Duty Garage | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |

- Quantity: 4
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 4

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Light Duty Garage | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | OTH-LED-19W-1 |
|----------|---------------|

Description: 2700K

| Quantity: | 5 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Rep | lace | Lamp |
|-----------|-----|------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 5 Controls: None

Actual Quantity Installed

Signature





| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Light Duty Garage | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 16
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 16 |
|-----------|----|
|-----------|----|

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Electric Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: Description: | HB-T5-4 ft-54W-4 Electronic / 1 Ballast / Occupancy / Wireguard | |
|--------------------------|--------------------------------------------------------------------|--|
| Quantity: | 9 | |
| Voltage: | | |
| Fixture ht: | 0.000 ft | |

Controls: None

Proposed Fixture

- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 9

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Electric Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | OTH-LED-19W-1 | L |
|----------|---------------|---|

Description: 2700K

| Quantity: | 3 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Rep | lace | Lamp |
|-----------|-----|------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 3 Controls: None

Actual Quantity Installed

Signature







| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Electric Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 24
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 24 |
|-----------|----|
|-----------|----|

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Electric Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature





| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Electric Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: WP-MH-250W-1

Description: Magnetic / 1 Ballast

Quantity: 1

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|
| | replace | inconc |

- Brand: 29-MetroTech
- Part no.: MTAPL-75W01-50T3-AM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 1

Controls: None

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Electric Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

- Fixture: WRP-T5-4 ft-54W-2
- Description: Electronic / 1 Ballast



- Quantity: 4
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Carpenter Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 9
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 9

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Carpenter Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

OTH-LED-19W-1

2700K

Ceiling Type:

Existing Fixture

Quantity: 1

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Rep | lace | Lamp |
|-----------|-----|------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

| Qu | an | tity: | 1 |
|----|----|-------|---|
| - | | | |

Controls: None

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Carpenter Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

|) | | | |
|-------|---|---|---|
| | T | | |
| | ł | i | 1 |

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy

| Quantity: | 4 |
|-----------|---|
|-----------|---|

Voltage:

| | Fixture | ht: | 0.000 ft |
|--|---------|-----|----------|
|--|---------|-----|----------|

Controls: None

Proposed Fixture

| Decision: | Replace | Retrofit | Kit |
|-----------|---------|----------|-----|
|-----------|---------|----------|-----|

Brand: Maverick

Part no.: MES-RTST124

Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 4 |
|-----------|--------------------|
| Controls: | Maverick/MES-06243 |

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Carpenter Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast

Quantity: 2

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Carpenter Shop | | |
| Space Type: | Mechanical | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

- Fixture: WRP-T8-4 ft-32W-2
- Description: Electronic / 1 Ballast



- Quantity: 4
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature



| Area: | Maintenance | Shops |
|-------|-------------|-------|
| | | |

Space Name: Utility Shop

Space Type:

Mechanical

Deck Ht:

None

Access:

Ceiling Type:

Ceiling Ht:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 5
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 5

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes



| Area: | Maintenance Shops | |
|-------------|-------------------|----------|
| Space Name: | Utility Shop | |
| Space Type: | Mechanical | Access: |
| Ceiling Ht: | | Deck Ht: |

Ceiling Type:

Existing Fixture

Fixture: OTH-MH-175W-1

Description: Magnetic / 1 Ballast

| 1 |
|---|
| |

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: YouLumi
- Part no.: YL-C040SLG4-40W-57K
- Description: Corn Cob / LED / 40W / 5700K / 120-277V

Quantity: 4

Controls: None

Actual Quantity Installed

Signature

Notes

None



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Paint Storage | | |
| Space Type: | Storage | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: OTH-INC-75W-1 Description:



| Quantity: | 3 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Lamp |
|-----------|---------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 3 Controls: None

Actual Quantity Installed

Signature



| Area: | Maintenance Shops | | |
|---------------|-------------------------|----------|------|
| Space Name: | Hazardous Waste Staging | Area | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | NA |
|--------------|----|
| Description: | NA |

| Quantity: | NA |
|-------------|----|
| Voltage: | NA |
| Fixture ht: | NA |

Controls: NA

Proposed Fixture

| Decision: | Replace Lamp |
|--------------|-----------------------------------------|
| Brand: | YouLumi |
| Part no.: | YL-C040SLG4-40W-57K |
| Description: | Corn Cob / LED / 40W / 5700K / 120-277V |

| Quantity: | 1 |
|-----------|------|
| Controls: | None |

Actual Quantity Installed

Notes



| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Breakroom | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

|--|

Description: 2700K

| Quantity: | 12 |
|-----------|----|
|-----------|----|

- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Lamp
- Brand: MTYL
- Part no.: YL-C030SLG4-30W-57K
- Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 12

Controls: None

Actual Quantity Installed

Signature





| Area: | Maintenance Shops | | |
|-------------|-------------------|----------|------|
| Space Name: | Breakroom | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 12
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 12

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature


| Area: | Maintenance Shops | | |
|---------------|-------------------|----------|------|
| Space Name: | Breakroom | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |
| Ceiling Type: | | | |

Existing Fixture

| Fixture: | WRP-T5-4 ft-54W-2 |
|----------|-------------------|
| | |

Description: Electronic / 1 Ballast

| Quantity: | 16 |
|-----------|----|
|-----------|----|

Voltage:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 16

Controls: None

Actual Quantity Installed

Notes

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | E&R Office | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

DEC-LED-19W-3

A CR

Quantity: 2

Ceiling Type:

Existing Fixture

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

| Decision: | Repl | ace | Lami | 0 |
|-----------|-------|-----|------|---|
| Decision. | itepi | acc | Land | ~ |

Brand: 35-Bulbs.com

Part no.: A19-9.5W-40K

Description: A19 / LED / E30 / 4000K / 100-277V

Quantity: 6

Controls: None

Actual Quantity Installed

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | E&R Office | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

| Quantity: | 2 |
|-----------|---|
|-----------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision | : Re | place | Lamp |
|----------|------|-------|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 2 Controls: None

Actual Quantity Installed

Signature







| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | E&R Office | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

STR-T8-4 ft-32W-1

Electronic / 1 Ballast / Occupancy

Ceiling Type:

Existing Fixture

Quantity: 14

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 14 | |
|-----------|----|--|
|-----------|----|--|

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | E&R Office | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

TR-T8-4 ft-32W-2

Electronic / 1 Ballast

Ceiling Type:

Existing Fixture

| Quantity: <u>1</u> | .4 |
|--------------------|----|
|--------------------|----|

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 14

Controls: None

Actual Quantity Installed

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | E&R Office | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: VT-T5-4 ft-54W-2

Description: Electronic / 1 Ballast

Quantity: 1

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

| Quantity: | 1 |
|-----------|---|
|-----------|---|

Controls: None

Actual Quantity Installed

Signature





| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | E&R Office | | |
| Space Type: | Office | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

Ceiling Type:

Existing Fixture

Quantity: 20

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 20

Controls: None

Actual Quantity Installed

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | Welding Shop | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 |
|--------------|------------------------------------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard |



- Quantity: 34
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 34

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | Welding Shop | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 6
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

| Quantity: | 6 |
|-----------|--------------------|
| Controls: | Maverick/MES-06243 |

Actual Quantity Installed

Signature



| Area: | Erection & Repair |
|-------------|-------------------|
| Space Name: | Welding Shop |

VT-T5-4 ft-54W-2

Electronic / 1 Ballast

Space Type:

Ceiling Ht:

Deck Ht:

None

Access:

Ceiling Type:

Existing Fixture

Quantity: 3

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 3

Controls: None

Actual Quantity Installed

Signature



1 112 1111

Space Information

| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | DXP | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

| Fixture: | HB-T5-4 ft-54W-4 | the second second |
|--------------|------------------------------------------------|-------------------|
| Description: | Electronic / 1 Ballast / Occupancy / Wireguard | BLAS |
| | | |

- Quantity: 25
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 45-Metrotech
- Part no.: MTHBLM-70W01-5005-45
- Description: Highbay / Round / LED / 5000K / 100-277V

Quantity: 25

Controls: 45-MetroTech/MTHBLM-MotionSensor

Actual Quantity Installed

Notes

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | DXP | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: OTH-LED-19W-1

Description: 2700K

| Quantity: | 29 |
|-----------|----|
|-----------|----|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Repl | ace | Lamp |
|-----------|------|-----|------|

Brand: MTYL

Part no.: YL-C030SLG4-30W-57K

Description: Corn Cob / LED / Internal Driver / 5700K / 120-277V

Quantity: 29

Controls: None

Actual Quantity Installed

Signature





| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | DXP | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

- Fixture: STR-T12-4 ft-34W-2
- Description: Magnetic / 1 Ballast



- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 2

Controls: None

Actual Quantity Installed

Signature





| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | DXP | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 40
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 40

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | DXP | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: STR-T8-4 ft-32W-1

Description: Electronic / 1 Ballast / Occupancy



- Quantity: 52
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST124
- Description: Linear / 4 ft / LED / Retrofit Kit / 24W / 120-277V

Quantity: 52

Controls: Maverick/MES-06243

Actual Quantity Installed

Signature



| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | DXP | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: TR-T8-4 ft-32W-2

Description: Electronic / 1 Ballast



Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 8

Controls: None

Actual Quantity Installed

Signature





| Area: | Erection & Repair | | |
|-------------|-------------------|----------|------|
| Space Name: | E&R Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: WP-MH-250W-1

Description: Magnetic / 1 Ballast



| Quantity: 6 | 5 |
|-------------|---|
|-------------|---|

Voltage:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

| Decision: | Replace | Fixture |
|-----------|---------|---------|

- Brand: 29-MetroTech
- Part no.: MTAPL-75W01-50T3-YM-29
- Description: Area Light / Shoebox / LED / 5000K / 100-277V

Quantity: 6

Controls: None

Actual Quantity Installed

Signature



Space Name: Offices

Space Type: (

Existing Fixture

Ceiling Ht:

Office

TR-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 104

Voltage:

Fixture:

Description:

Fixture ht: 0.000 ft

Controls: None

Proposed Fixture

Brand: Maverick

Part no.: MES-RTST230

Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 104

Controls: None

Actual Quantity Installed

Signature



Space Name: Offices

Space Type:

Existing Fixture

Ceiling Ht:

Office

WRP-T12-2 ft-35W-2

Magnetic / 1 Ballast

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 7

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST2230
- Description: Linear / 2 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 7

Controls: None

Actual Quantity Installed

Signature



Space Name: Offices

Space Type:

Existing Fixture

Ceiling Ht:

Office

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 19

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 19

Controls: None

Actual Quantity Installed

Signature



Space Name: Offices

Space Type:

Existing Fixture

Ceiling Ht:

Office

WRP-T8-4 ft-32W-2

Electronic / 1 Ballast

Deck Ht:

None

Access:

Ceiling Type:

Quantity: 6

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Retrofit Kit
- Brand: Maverick
- Part no.: MES-RTST230
- Description: Linear / 4 ft / LED / Retrofit Kit / 30W / 120-277V

Quantity: 6

Controls: None

Actual Quantity Installed

Signature



| Area: | R&D building | | |
|-------------|--------------|----------|------|
| Space Name: | R&D Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

Ceiling Type:

Existing Fixture

Fixture: WP-INC-75W-1 Description:



- Quantity: 3
- Voltage:
- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

- Decision: Replace Fixture
- Brand: 29-MetroTech
- Part no.: MTWP402-26W01-50P-29
- Description: Wallpack / Decorative / LED / 5000K / 100-277V

Quantity: 3

Controls: None

Actual Quantity Installed

Signature



| Area: | R&D building | | |
|-------------|--------------|----------|------|
| Space Name: | R&D Exterior | | |
| Space Type: | | Access: | None |
| Ceiling Ht: | | Deck Ht: | |

WP-MH-175W-1

Magnetic / 1 Ballast

Ceiling Type:

Existing Fixture

Quantity: 7

Voltage:

Fixture:

Description:

- Fixture ht: 0.000 ft
- Controls: None

Proposed Fixture

Decision: Replace Fixture

Brand:

- Part no.: MES-SWP02-55BA2-A-44
- Description: Wall Mount / Security / LED / 55W / 120-277V

Quantity: 7

Controls: None

Actual Quantity Installed

Signature

Energy Integrated Solutions, Inc. Company Capability Statement



Automotive

Data Centers

Medical Devices

Pharmaceuticals

Fiber and textiles

Hospitals

Manufacturing facilities

Chemicals & Plastics

Mills (Steel, Paper, etc.)

About EIS

Energy Integrated Solutions, Inc. ("EIS"), based in Atlanta, GA, has been

providing optimization solutions to industrial and commercial customers for more than 40 years:

- Turnkey projects implementations with an ongoing Measurement & Verification (M&V) service to ensure our solutions deliver the potential savings we design with a performance guarantee agility.
- Efficiency solutions and conservations measures addressing all major load groups: equipment motors, LED lighting, HVAC, refrigeration, compressed air, steam, water, alternative generation systems, predictive maintenance and operations improvements, etc.
- Attractive ROI typically 8% 30% annual savings with reasonable paybacks within 1 to 3 years
- Solutions are passive and non-intrusive no change in operational behavior required from occupants during implementation.
- Flexibility to address customer needs, reducing risk and capitalizing on financial and operational savings.
- Full energy and efficiency consulting service through a holistic vision.

Past Performance

Highest Energy Savings Award for large industrial and commercial companies, as Entergy and CLEAResult trade ally



and CLEAResult trade ally for the years 2019 and 2020

| CLIENT | SAVINGS | PAYBACK PERIOD |
|------------------|---------|----------------|
| C.R.BARD | 26.2% | 26.7 months |
| MONDELEZ INT. | 12.0% | 27.0 months |
| FIRMENICH | 13.0% | 30.7 months |
| GENERAL ELECTRIC | 21.0% | 11.0 months |
| FREEMAN WEBB | 22.3% | 31.0 months |
| CHRYSLER | 23.0% | 39.6 months |
| PEPSI | 15.1% | 13.0 months |



Type of Industries

- Commercial Buildings
- Food & Beverage
- Hospitality
- Mining Industries
- Packaging
- Sawmills
- Health Care Facilities

Core Competencies

reduce • reuse • renew • rebuild

EIS approach is founded in performing on-site-databased engineering analysis of the facility, to design and implement solutions for operational efficiency and savings escalating sustainable principles:



- Ensuring PRODUCTION RESOURCES SAVINGS through implementation of efficiencies and conservation measures (ECMs) to reduce facility's consumption
- (ECMs) to **reduce** facility's consumption pattern.



Implementing ENHANCED OPTIMIZATION METHODS, combined with recycling processes to **reuse** typically wasted resources increasing significantly their lifecycles.



- Establishing viable ONSITE GENERATION of all type of energy (i.e. electric, thermal, mechanical, etc.), modifying facility systems to recover exhausted energy and/or incorporating renewable energy into the facility.
- Energy & Efficiency ConsultingASHRAE Level 1 & Level 2 Audits

EIS Services

- Operations & Management (O&M) for Projects
- Efficiency as a Service (EaaS)
- Lighting as a Service (LaaS)
- Forensic Billing Analysis
- Energy Financing
- Compressed Air Systems
- HVAC & Hydronics
- Heat Recovery
- LED Lighting
- Motor Controls (VFD, BMS, etc.)
- Power Quality Conditioning
- Steam Systems
- Photovoltaic (PV) Solar
- Post Process/Wastewater Recycling

- -
- EIS Technologies

EIS Arkansas Projects

Energy Integrated Solutions, Inc. is a trade ally in the Entergy Solutions energy efficiency programs 2019 and 2020 Highest Energy Savings Award for large industrial and commercial companies



EIS

Clean Harbors - El Dorado, AR



Clean Harbors El Dorado incineration facility, supported by its \$120million incinerator, specializes in the treatment of hazardous wastes (RCRA regulated) and non-hazardous waste by high temperature incineration. Understanding the need to reduce their energy costs, while increasing their electrical efficiency, drove them to undertake an LED & Advanced Controls Project, which represented an investment of \$648,000 to obtain savings of \$323,500 per year (from the annual energy conservation of 3.4 million kWh). These results, added to \$609,000 in incentives triggered by the Entergy AR. Entergy Solutions Program trimmed down the payback period to only 2 months.

Founded in 1969, Drew Foam is a full service Expanded Polystyrene (EPS) block molding company, which today counts with three plants manufacturing over 16,000 specialty items: roof and wall insulation, packaging solutions, Geofoam, rigid foam, architectural shapes, or other construction products. Drew Foam is also taking seriously its

environmental role, recycling 100% of all waste produced during manufacturing, grinding up the left-over scrap and mixing it with raw material to produce a lower grade foam that can be used in a multitude of other applications. Their facility in Monticello, AR needed to



Drew Foam - Monticello, AR

upgrade their Lighting and EIS implemented an LED & Advance Control project which saved them 318KW in power and 2.7 million kWh per year. Opting into the Entergy AR. Entergy Solutions Program represented an investment of \$405,300, completely funded by the incentives. Sustainable results are achieved in the magnitude of \$251,305 per year in savings with zero disbursement from Drew Foam.

West Fraser Saw Mill - Russellville, AR



more than 45 manufacturing facilities in North America, which means that is one of North America's largest lumber manufacturers, as well as an established leader in sustainable forestry, high-efficiency wood product production and innovation in manufacturing. West Fraser produces SPF and SYP dimensional lumbers, panels (plywood, MDF), engineered wood products (LVL), pulp & paper, wood chips, other residuals and energy. Efficiency is an integral part of West Fraser model, so EIS has been furnishing energy conservation and power quality systems for West Fraser over the years. At the Russellville's facility, a \$541,000 investment in LED and Advance Lighting Control was

A leading diversified wood products company, West Fraser operates

implemented successfully generating immediately savings of 245KW and 2.4million kWh per year (~\$184,000 a year benefit) since the investment was 100% funded by incentives coming from the Entergy AR Entergy Solutions Program.

Founded in 1903, PotlatchDeltic is a Real Estate Investment Trust (REIT) that owns PotlatchDeltic - Waldo, AR nearly 1.9 million acres of timberland in AL, AR, ID, LA, MN and MS. The company also operates six sawmills, an industrial-grade plywood mill, a residential and commercial Real Estate development business and a rural timberland sales program. PotlatchDeltic is dedicated to long-term stewardship and sustainable management of its timber resources and forest practices. EIS helped their Waldo wood mill to take advantage of the Entergy AR. Entergy Solutions Program, upgrading their lighting system to LED, reaching annual savings in the order of 188kW in power and 1.4 million kWh in electric energy. These savings represent 17 months payback of \$327,700 in LED lighting fixtures, when incentives from Entergy AR Entergy Solutions Program covers 63% of such investment, with the advantage that, once installed, LED represents a sustainable saving for years to come.





Contact Us

For inquiries contact us at 404-937-6547, or email us at contactElS@energyintegratedsolutions.com HQ: 829 Pickens Industrial Dr. NE, Suite 13, Marietta, GA 30062 • Distr.Ctr: 110 Lurton St., Pensacola, FL 32505 Visit our website www.energyintegratedsolutions.com

reduce • reuse • renew

EIS

EIS Arkansas Projects

Energy Integrated Solutions, Inc. is a trade ally in the Entergy Solutions energy efficiency programs 2019 and 2020 Highest Energy Savings Award for large industrial and commercial companies



Conifex Timber - El Dorado, AR



Manufacturer of structural grade SPF (spruce, pine and fir) dimension lumber and Southern Pine decking and dimensional lumber, while producing clean, renewable energy from the sawmill residuals. Conifex's strong fiber basket supports lumber production increase and its bioeconomy footprint. With energy efficiency in mind, Conifex Timber implemented with EIS energy conservation measures using the incentives available in the state. EIS installed an LED Lighting solution driven by Advance Controls, bringing Conifex a sustainable 880,600 kWh per year with an upside of \$363,000 investment covered100% by the

Entergy AR. Entergy Solutions Program incentives, allowing them to perceive an immediate payback, while benefited from savings as soon as day one.

A one of the world's largest lumber providers, Interfor is operating 18 world-class facilities In North America, with annual capacity of 3.1 billion board feet. Nine of these facilities are located in the south of USA. Interfor truly considers that wood is the ultimate natural, renewable and strong building material, but also believes wood products only have value if it is produced in ways that generate economic growth, create social benefits and minimize the impact on the environment. This fine balance that characterize their achievements is embedded in clear commitments of collaboration and continuous improvement, as reflected in their interest in steadily increase conservation measures within each plant. EIS initiated this initiative in Monticello's facility with a pilot LED project



of \$133,600, reflecting energy savings in the order of 45KW in power and 489,500 kWh/yr. The incentives obtained through the Entergy AR. Entergy Solutions Program took care of 60% of the investment, reducing its payback period.



Gränges AB, founded in 1896 HDQ in Stockholm, Sweden, develops, produces, and distributes rolled aluminum materials for brazed heat exchanger and niche applications in Europe, Asia, and USA. It serves automotive, heating, ventilation, and air-conditioning industries; and other markets, such as transformers and food packaging industries. Its newly

improved and expanded plant at Newport-AR, founded in 1951, supplies 20 ktonnes/yr of a growing demand of light gauge foil market in the US. As the inherent progress of its efficiency-oriented culture, the facility decided to opt-in for Entergy AR Solutions Program, implementing a LED lighting project, which resulted in energy savings of 1,067,017 kWh/yr (69% reduction of



its original electricity consumption), translated in \$81,845 of cost reductions. With an investment of \$199,252, (76% funded by Entergy), Granges obtained a payback in 8 months of the first year.



A comprehensive healthcare system that services Dallas County in Fordyce, Arkansas, providing general medical and surgical care for inpatient, outpatient, and emergency room patients. EIS implemented an LED Lighting savings project which triggered direct incentives of 53,000 USD from the Entergy AR. Entergy Solutions

Program while generating a sustainable annual power savings of 51KW and 378,480kWh of electric energy savings per vear.



Contact Us

For inquiries contact us at 404-937-6547, or email us at contactElS@energyintegratedsolutions.com HQ: 829 Pickens Industrial Dr. NE, Suite 13, Marietta, GA 30062 • Distr.Ctr.: 110 Lurton St., Pensacola, FL 32505 Visit our website www.energyintegratedsolutions.com





Energy Integrated Solutions, Inc.

reduce • reuse • renew

MetroTech: **Commercial &** industrial LED lighting

With more than 40 years of experience and expertise in the LED industry, MetroTech LED lights are built specifically to withstand the rigors of commercial and industrial use. Innovation and newest technologies are the core of MetroTech line of products, which are backed by UL and DLC certifications. Our lights provide years of reliable and maintenance free performance, allowing us to offer an industry leading 10-year warranty.

EIS efficiency pyramid

Illumination projects implemented with MetroTech LED Lighting Solutions are part of the Resource Conservation tier of solutions of EIS pyramidal structured principles.

RESOURCE CONSERVATION TIER: efficiency behavioral and operational practices, combined with the implementation of Efficiency and Energy Conservation Measures (EECM), to reduce the consumption pattern. stains

ENHANCED OPTIMIZATION TIER: Energy Procurement and Demand Management shifting the energy usage to periods of less demand distribution as possible, combined with recycling measures to reuse postprocess wasted resources with significant lifecycles.

ONSITE GENERATION TIER: Renewable energy, when the facility systems are modified to use energy efficiently, less generation is required, reducing the investment in **renewable** energy production.

RENEW solar PV/thermal wind power geothermal ombined heat & power (CHP) RELISE heat recovery VRF heating/cooling atural ventilation airflow redistribution Resource Conservation

24

thermal energy storage (TES) biomass boilers rainwater harvesting recycling water HVAC & chillers optimization

REDUCE

high performance building envelope high efficiency fume hoods LED lighting fixtures & dynamic controls low/no flow water fixtures plug load controls ergy management system daylight & glare control **HVAC Optimizers**

Industrial Lighting

MetroTech's line of industrial fixtures are designed for the high demand of industrial facilities. With available IP65+, IK10, and Hazloc Class I Division 2 ratings, our fixtures are ideally suited for a wide range of harsh industrial applications. With the highest lumens per watt output in the market, they can light up any facility and are the ideal choice for factories, warehouses, and more.

Commercial Interior Lighting

MetroTech's line of interior commercial lighting is versatile, high performance lighting suited to a wide variety of interior applications. We have your needs covered from quick install retrofit kits and drop in troffers to IP65+ rated fixtures for wet or dusty environments.

Commercial Exterior Lighting

All MetroTech outdoor rated fixtures are designed and tested to work for years of reliable outdoor use. Heavy duty cast aluminum housing combined with IP65 ratings give you the confidence that our fixtures will withstand the sun and rain. Surge protection, photocell, motion, and dimmer controls are available.

Roadway Lighting

MetroTech's line of roadway lighting includes LED traffic, roadway signs, and streetlights. Our patented iDriver[™] technology significantly extends the LED life. Optional smart street lighting controls can notify you when a light is not working. When combined with our turnkey maintenance plans, our roadway lighting will improve safety, save money, and eliminate all of your maintenance concerns.



built to outshine and outlast

Benefits at a Glance

- 40+ Years Industry Experience
- UL & DLC Certified Lighting
- UL Certified Assembly
- Audits, Design, & Turn-Key Projects
- Maintenance Agreements
- Financing Available







Guaranteed Optimization

- 40+ year track record with worldwide installations.
- Experienced Engineering designing value-added EECM for the whole facility.
- Non-disruptive solutions customized to the facility operational requirements.



Contact Us



For inquiries contact us at 404-937-6547, or email us at contactElS@energyintegratedsolutions.com HQ: 829 Pickens Industrial Dr. NE, Suite 13, Marietta, GA 30062 • Depot Ctr: 110 Lurton St., Pensacola, FL 32505 Visit our website www.energyintegratedsolutions.com



Energy Integrated Solutions, Inc.

reduce • reuse • renew

Solar Solutions: from photovoltaic power to thermal

Clean, unlimited, independent and free source of energy made available for any industrial and commercial facility. Through silicon photocell panels, the sun's light is converted into thermal and/or electric energy by exciting their electrons: (i) inverters convert the direct current (DC) to alternate current (AC) which is used to power the facility (self-generation) or sold to the local power utility (power-house); and (ii) energy introduced into HVAC systems by the sun enables the production of higher total heat rejection with less energy expended by the compressors.

EIS efficiency pyramid

Solar Photovoltaic and Thermal Solutions approach is part of the **ONSITE GENERATION** tier of technologies of EIS pyramidal structured principles.

RESOURCE CONSERVATION TIER: efficiency behavioral and operational practices, combined with the implementation of Efficiency and Energy Conservation Measures (EECM), to **reduce** the consumption pattern.

ENHANCED OPTIMIZATION TIER: Energy Procurement and Demand Management shifting the energy usage to periods of less demand distribution as possible, combined with recycling measures to **reuse** postprocess wasted resources with significant lifecycles.

ONSITE GENERATION TIER: Renewable energy, when the facility systems are modified to use energy efficiently, less generation is required, reducing the investment in **renewable** energy production.



Photovoltaic (PV) Power Generation

PV Solar Power efficiency is actually reflected in the capability of obtaining an alternate free-fuel-source of energy for the facility production. Depending on the demand or the production pattern, end-users are able to use PV technology from simple back-up power to a 100% of their energy requirement; with the advantage of reducing environmental impacts associated with transportation and dependence on fossil fuel.

Since a PV system can be constructed and updated to any size depending on energy requirements, it can be easily scaled modularly or even moved as the energy needs change. Even more, small-scale solar plants can take advantage of unused real estate space on land or rooftops of existing buildings.

Modulated Solar Thermal Energy

Renewable energy method of adding pressure and heat to the refrigeration cycle of HVAC systems, which results in a decreased/displaced compressor workload, translated to electric energy savings.

This solar thermal system displaces a portion of the mechanical energy used by various compressor types, including single speed compressors w/VFD's, variable capacity, multistage, and variable speed compressors; and allowing them to operate at low stage, low range or low capacity, while delivering full and partial load cooling requirements.







don't waste your energy... invest it

Benefits at a Glance

- Solid investment and reasonable payback.
- Reduce monthly electric bills and improve seasonal or peak consumption.
- Possibilities of tax credits and accelerated depreciation.
- Improve corporate image: solar powerhouse, business sustainability and environmental responsibility.
- PV cells operate reliably for long periods of time with virtually no maintenance.
- Decreases HVAC system electric consumption by 25 to 40%.
- Increases efficiencies on new HVAC systems, as well as midlifecycle existing systems.
- HVAC solution with ROI of less than 36 months, and positive cash flow.



Guaranteed Optimization

- •40+ track record with worldwide installations.
- Experienced Engineering designing value-added EECM for the whole facility.
- Non-disruptive solutions customized to the facility operational requirements.



Contact Us



For inquiries contact us at 404-937-6547, or email us at contactEIS@energyintegratedsolutions.com HQ: 829 Pickens Industrial Dr. NE, Suite 13, Marietta, GA 30062 • Depot Ctr: 110 Lurton St., Pensacola, FL 32505 Visit our website www.energyintegratedsolutions.com



Energy Integrated Solutions, Inc.

reduce • reuse • renew

Sustainability Services: from energy audits to ESG reporting

Utilities Billing Forensic Analysis, Energy Audits, Building Envelope Solutions and ESG Scoring & Reporting can provide insight into the long-term prospects of companies, to current stakeholders and those trending future investors, who are actively looking for new market sustainable opportunities. A well structured combination of these services represents a reliable and versatile risk management system based on Environmental and Energy Factors, Social Direction, and Corporate Ethical Concerns at the core of the business.

EIS efficiency pyramid

Sustainability Analysis and Solutions approach is part of the RENEW tier of technologies of EIS pyramidal structured principles.

RESOURCE CONSERVATION TIER: efficiency behavioral and operational practices, combined with the implementation of Efficiency and Energy Conservation Measures (EECM), to **reduce** the consumption pattern.

ENHANCED OPTIMIZATION TIER: Energy Procurement and Demand Management shifting the energy usage to periods of less demand distribution as possible, combined with recycling measures to **reuse** postprocess wasted resources with significant lifecycles.

ONSITE GENERATION TIER: Renewable energy, when the facility systems are modified to use energy efficiently, less generation is required, reducing the investment in **renewable** energy production.



Utilities Billing Forensic Analysis

Complete effort of reducing energy costs by performing a comprehensive utility invoice audit, verifying level of errors, discrepancies, and overcharges. 80% of the time, EIS finds invoicing inaccuracies, oversights and discrepancies within client's different utilities accounts. Utilities recognize the miscalculations and smoothly issue the necessary adjustments and/or applicable reimbursements.

When applicable, EIS reduces Rate/Cost Per Unit on electricity, natural gas, and/or other monthly recurring utilities' billing by negotiating lowest rates with the providers on behalf of the client.

Building Envelope Energy Audits

Customized assessment, analysis, action plan and execution that updates current conditions in buildings, while guides clients to optimize energy and increase comfort with cost-effective improvements. Building Envelope takes into account client's expectations and concerns; results from our analysis; current & expected energy use; building science, health and safety issues and expertise to make more cost-efficient, comfortable, safe, and resilient facilities. From energy bills analysis, diagnostic tools, thermal imaging, and data monitoring equipment; to identify locations where energy is wrongly used, insulation levels and installation techniques; and verify if building management systems and/or controls operate as designed. Our recommendations range from low-cost/no-cost advice to sophisticated upgrades to the building envelope, energy and ventilation systems, and renewable energy systems.

ESG Consulting Services

EIS commits its experience and expertise in efficiency and optimization to help clients to put in motion its own unique sustainability and social responsibility journey. among other ECMs:

EIS advocates for these environmental, social and governance (ESG) efforts to be strategically driven, more than just making companies appear socially conscious. And because they impact profitability, offer effective methodologies to communicate its effective progress to investors and stakeholders to ensure business success in the current and future marketplace.



don't waste your energy... invest it

Benefits at a Glance

- Decrease, consistently energy consumption, increasing operational efficiencies and savings (e.g. retrofitting lights, upgrading HVAC-R systems, installing energy-efficient equipment/technologies, stabilizing the voltage of electrical network, recycling post-process water, etc.)
- Evaluate, analyze, monitor and control of cost effectiveness of the utilities, while removing redundant, outdated, hidden, or unnecessary charges.
- Prioritize occupancy comfort issues: increasing morale, attendance, productivity.
- Troubleshoot indoor air quality problems, improving air recirculation, while solving contamination by outdoor air, occupants' health and safety issues, smells, etc.
- Investigate feasibility of using renewable and recyclable energy systems and other efficient technologies (e.g. heat pumps, controls, or lighting.)
- Provide relevant information and transparency to investors and stakeholders, regarding company's commitments to identify, manage, and report ESG risks.





Contact Us

EIS

For inquiries contact us at 404-937-6547, or email us at contactElS@energyintegratedsolutions.com HQ: 829 Pickens Industrial Dr. NE, Suite 13, Marietta, GA 30062 • Depot Ctr: 110 Lurton St., Pensacola, FL 32505 Visit our website www.energyintegratedsolutions.com



Cooperative Purchasing Connection Tabulation Report RFP #24.5 - Lighting Audit Services & LED Solutions Vendor: NCLED

General Comments: Thank you for allowing us this great opportunity to Bid on the Lighting Audit Services and LED Solutions RFP.

In total we show 9 attachments being submitted. If you did not receive 7 PDF's, 1 Word Document, and 1 XLS document please let us know. (920-418-0153).

Thanks,

Dale Baeten NCLED, LLC

General Attachments: 1 - Articles of Organization.pdf Certificate of Insurance (COI) NCLED, LLC.pdf Forms - Signatures- NCLED, LLC. PDF.pdf NCLED 2020_Antigo High School_Fixture Option 1-2-22 (2) (6).pdf Pricing Schedule - NCLED LLC.xls Project Deliverables (Lighting Audit Results-Final Report - and Rebate Summary)- NCLED, LLC.pdf Project Deliverables (Sample LED Lighting Contract).pdf Project Deliverables (Scope of Work) NCLED, LLC.pdf Questionnaire- NCLED, LLC.docx



Vendor Questionnaire RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein is a questionnaire required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the required forms, follow these steps:

- 1. Read the document in its entirety.
- 2. Respondents must use the Vendor Questionnaire to its capacity. Attached exhibits and/or supplemental information should be included only when requested (i.e. Marketing Plan).
- 3. Complete all questions.
- 4. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Questionnaire Name of Company*".
- 5. Submit the Vendor Questionnaire, along with other required documents in Public Purchase.

The following sections will need to be completed before submission and submitted as one (1) single PDF titled "Vendor Questionnaire – Name of Company":

Company Information Qualifications & Experience Warranty Financials & Level of Support Marketing & Partnership Exceptions & Deviations References

Company Information

| Name of Company: | NCLED, LLC |
|------------------------|-----------------------|
| Company Address: | 516 N. Eighth Street |
| City, State, Zip code: | De Pere, WI 54110 |
| Website: | www.ncledlighting.com |
| Phone: | 920-655-2468 |

Provide the following company contacts that will be working with this anticipated contract. Include name, email, and phone number(s).

| | Name | Email | Phone |
|---------------------------------|----------------|---------------------------|---------------------|
| General Manager | Jay Polena | jay@ncledlighting.com | 1-920-328-8948 |
| Contract Manager | Shelly Bekkers | Shelly@ncledlighting.com | 1-920-366-8495 |
| Sales Manager | Mark Wright | mwright@ncledlighting.com | 1-920-740-2297 |
| Marketing Manager | Dale Baeten | dale@ncledlighting.com | 1-920-418-0153 |
| Customer Service Manager | Nick Goffard | nick@ncledlighting.com | 1-920-655-2468 x103 |
| Account Manager(s) | Dale Baeten | dale@ncledlighting.com | 1-920-418-0153 |

List who will be responsible for receiving updated participation lists.

| Name | Email | Phone |
|-------------|------------------------|--------------|
| Dale Baeten | dale@ncledlighting.com | 920-418-0153 |

List who will be responsible for submitting sales reports and administrative fee payments every quarter.

| Name | Email | Phone |
|----------------|--------------------------|--------------|
| Shelly Bekkers | Shelly@ncledlighting.com | 920-366-8495 |

List who will be responsible for conducting audits as requested by CPC.

| Name | Email | Phone |
|------------|-----------------------|--------------|
| Jay Polena | jay@ncledlighting.com | 920-328-8948 |

Identify any business types/classifications that your company holds. *<u>Submit documentation in PDF format to verify</u> business status (see submittal checklist).

| x | Business Type/Classification | | |
|---|------------------------------------------|------------------------------------------|--|
| | 8(a) | 8(a) Qualified Business | |
| | DBE | Disadvantaged Business Enterprise | |
| | HUB | Historically Underutilized Business Zone | |
| | MBE | Minority-Owned Business Enterprise | |
| | MWBE | Minority Women-Owned Business Enterprise | |
| | SBE | Small Business Enterprise | |
| Х | Other; list name: NCLED LLC Verification | | |

| x | Business Type/Classification | | |
|---|------------------------------|-----------------------------------------|--|
| | SDB | Small Disadvantaged Business | |
| | SDVOB | Service-Disabled Veteran Owned Business | |
| | SECTION 3 | Section 3 Business Concern | |
| | SSV | Sole Source Vendor | |
| | VBE | Veteran-Owned Business Enterprise | |
| | WBE | Woman-Owned Business Enterprise | |
| | | | |

Provide a list of other contracts your organization has in place that could be accessed by our membership for your services (e.g. other consortiums, state agencies) in MN, ND, SD, IA, and WI? None

Qualifications & Experience

1. Provide a brief background of your organization, including the year it was founded (1-2 paragraphs max.).

NCLED is previously New Covenant Contracting. In 2014 Doug Schoenwalder brought Jay Polena in to start a division of installing LED lighting. In 2017 New Covenant Contracting was dissolved and NCLED has remained since. Our Turnkey solutions service: Schools Municipalities, Property Managers, Warehouses, Manufacturers, Schools, Street Lighting, Stadium Lighting, Office spaces, Post offices, and Retail stores. Recently we were awarded the Focus on energy Trade Ally Contractor Energy Efficiency award. Before focusing on LED Lighting exclusively we were a Electrical Contractor since 1999.

2. Provide evidence of what your company is doing to remain viable in the lighting industry.

NCLED attends all of the Lightfare seminars. We also work very closely with our vendors to be well educated on the latest technologies. NCLED takes advantage of any seminars held in regard to LED lighting.

3. Describe your company's logistics (locations, experience, production, distribution of products, warehouse inventories and delivery systems used) that should be considered in your ability to deliver on-time quality services, products, and solutions to participating agencies in MN, ND, SD, IA, and WI.

Our warehouse is in De Pere, Wisconsin. We can also ship out of California. The trucking companies we use are Daylight, T-Force, and Old Dominion.

4. Describe the number of agencies your organization, on average, provides lighting audit services and LED solutions to. Include overall numbers and numbers specific to MN, ND, SD, IA, and WI.

Describe your customer retention as it pertains to lighting audit services and LED solutions (i.e. customers who are served that continue to be repeat customers).

We provide lighting audit services for over 250 projects a year. In Minnesota we provide over 10 audits a year, North Dakota 0 audits a year, South Dakota 0 audits a year, Iowa 0 audits a year and over 240 a year in Wisconsin. We have many School Districts in Wisconsin who continue to come back to us for additional lighting needs as well as municipalities. We have a very high retention % and we often received many referrals to other School districts and City, Village, and Townships

5. Describe and specify your proposed service area (MN, ND, SD, IA, and WI) and how your company intends to meet the needs of customers in that area.

We would like to provide our proposed services for all 5 States, as we feel that we can handle all locations. We travel as a turnkey company. Our install team would stay onsite to complete any projects. We are licensed in Wisconsin, however, are willing to acquire anything needed in other States.

6. List the agencies, if any, you would exempt from this contract (i.e. current agencies that you are currently serving that will be exempt from pricing submitted with this proposal).

None

7. Describe your company's approach to lighting audits, the steps involved in an audit, and applicable LED solutions and what differentiates your company from your competitors. Describe any competitive differences regarding sales, service, installation, technology, and product line(s).

NCLED travels to the location. We use an iPad with a lighting program called Eco Insight. Our auditors are electricians, so they know what to look for. We record each area with the existing lighting all while having in depth conversations on the best solution for that area. We do not believe in cookie cutter solutions. NCLED is competitive in both pricing & by using a mix of solutions where it makes sense to give the best energy savings for the lowest dollar amount. It does not need to be all fixtures or all lamps for a solution, it can be a combination of both in certain solutions.

8. Describe how your company works with local utility companies to ensure energy rebates are maximized and how the funding/rebate, if approved, flows through, and applies to the project.

NCLED works very closely with all utility companies and energy advisors to make sure we do not miss any potential incentives, rebates, or grants. When a project is awarded to NCLED we take the rebate amount off the total project and wait for the rebates to come to us so you don't have to wait for the check to be cut.

9. Describe your company's approach to proposing available LED solutions to an agency resulting from a lighting audit.
After in depth conversations, NCLED provides a few options to our clients for the best possible scenario. There are several ways we can present solutions: in person, zoom, and phone conference. We can also provide samples if needed.

10. Describe any minimum project requirements and if any surcharges will be assessed for not meeting the minimum.

We have no minimums.

11. Describe how your company ensures that the LED solutions and products offered are current, energy efficient, best-value, and are customizable to agency needs.

NCLED ensures all lights are DLC listed. When it comes to value it is our experience that we always excel at that. NCLED does not believe in all fixtures or an all-lamp solution. Everything is based on gaining the highest energy savings at the lowest cost. We are proposing long & short-term gains when we build a project.

12. Describe your company's hierarchy or chain of command from installers to sales to management that will work with this potential contract/program.

NCLED has a team of 7 installers, 1 Office Administrator, 1 Lead generator, 3 Auditors, and 1 project Manager. Our Office Administrator handles all paperwork, Our Lead Generator creates new opportunities, Our Audit team consists of our Company VP, Master Electrician, and President, and Our Project Manager orders all materials, schedules all projects and coordinates all, warranty servicing.

13. Describe the process from order placement, including methods, to receipt of order, installation, and final walk-through (punch-list).

When we are awarded a project NCLED sends a companywide email out that includes our client. This ensures we are all on the same page. Our office admin will start paperwork (W9, contracts, etc). The project manager secures all materials and stages them for the install team. He then schedules the install with the client. The auditor has a meeting with the lead installer to ensure all questions are covered. During the install the lead reports to the office daily to address any issues. A final walkthrough is done by the lead before the crews leave. An additional post inspection is done by the auditor to ensure nothing is incorrect.

14. Describe in detail your return or exchange program/policy(s) for purchases of LED lighting solutions and/or specific products (i.e lamps, fixtures) outside of an audit or applicable project.

In most cases a picture will suffice. If our vendor wants the product for any reason NCLED will cover the cost. You simply email or call NCLED to let us know of your needs.

15. Provide a narrative of a recent project that totaled at least \$150,000 in lighting audit and LED solutions. The narrative should describe the lighting audit and results, proposed project scope, pricing costs and calculations, any fees, your company's installation/project management, and a final report and rebate summary.

We are providing the Antigo School district Interior & Exterior Lighting turnkey project for your review. As you will see with our attached documents for 15a, you will receive net costs after incentives, ROI, Energy Savings calculations, Maintenance Savings calculations, Cash Flow Analysis, Costs of waiting, current kWh rate, and much more.

15a. Uploaded as a separate PDF document titled "7 - Project Deliverables" provide the supporting documentation for the project described above in #15. Supporting documentation and deliverables must include the following:

- (i) Lighting audit and results
- (ii) Proposed project scope, pricing costs and calculations, any applicable fees
- (iii) Installation/Project Management plan
- (iv) Final report and rebate summary

16. Describe any "added value" attributes being offered to participating agencies when purchasing services and products through your company. Describe any "value-adds" that are <u>exclusive</u> to the potential contract.

We will provide photometrics and light level readings as an "added value" for projects that can benefit from these valueadds. We can also provide sample lighting for clients who would like to see how the LED solution will look in their facilities.



1. Describe your warranty program, including any conditions and requirements to qualify claims procedure and overall structure.

Our products come with a minimum 5-year warranty. If a product fails NCLED will replace the product. Simply sending us a description of the product will allow us to review our work order for the location. If a picture is needed for further product clarification, we will request one.

2. Do all warranties cover all products/equipment parts and labor?

No

No

XXXXX Yes

If NO, describe the exceptions to coverage.

Click or tap here to enter text.

3. Do warranties cover the expense of a technician's travel time and mileage to perform warranty repairs?

XXXXX Yes

If NO, describe why travel and mileage are not covered.

Click or tap here to enter text.

4. List any additional limitations or circumstances that would not be covered under your warranty? Damage caused by your electrical system failure due to water or damage caused by negligence.

5. List any geographic areas for which your organization cannot provide a certified technician to perform warranty repairs. How will participating agencies in these areas be provided service for warranty repair? None, we will provide a certified technician for repairs for all of the areas we service in the 5 listed States (ND,

None, we will provide a certified technician for repairs for all of the areas we service in the 5 listed States (ND, SD, IA, MN, & Wisconsin.

Financials & Level of Support

1. Describe the percentage of your company's revenue, by category (city/county/government, K12 education, higher education) that is derived from lighting audit services and LED sales on an annual basis.

80% of our company's revenue is derived from City/County/Government, K12 Education and Higher education. K12 equates to about 50%, Higher Education 15% and City/County/Government 15%.

2. Describe how your company works with agencies to determine payment terms, progress payments, etc. In most cases a 50% down payment balance net 30 after project completion. We also offer a Municipal & Technology lease option that can go as far out as 10 years.

3. Describe your company's allowed methods for payment and if any fees are assessed for those methods. Check or ACH payments are both allowed.

4. Indicate the level of support your company will offer on this contract category.

XXXXXPricing is better than what is offered to individual educational agencies.XXXXXPricing is better than what is offered to cooperative educational agencies.Other, please describe

If OTHER, describe how the pricing submitted differs from individual entities or other purchasing consortiums: Click or tap here to enter text.

5. Describe any self-audit process/program you plan to employ to verify compliance with an anticipated contract award.

Post Project Team review of a project always occurs to verify all contracts were handled properly. This is completed by our Vice President.

Marketing & Partnership

1. Describe how your company will position and propose to support CPC and its participating agencies regarding program growth.

We can provide the energy saved for your agencies so that others in your program can see the benefits.

2. Describe and submit a marketing plan that would describe, at a minimum, the following: process on how the contract will be launched to current and potential agencies, the ability to produce and maintain full-color print advertisements in camera-ready electronic format, including company logos and contact information, anticipated contract announcements, planned advertisements, industry periodicals, other direct, or indirect marketing activities promoting the awarded contract, and how the contract award will be displayed/linked on your organization's website. You can submit any support materials as Exhibit A – Marketing Plan.

We will provide our Turnkey LED Lighting capabilities flyer, 2023 Trade Ally Contractor award video from Focus on Energy, along with our company logo and contact information. We will add an additional tab on our website to reflect all projects to date that we have provided services for CPC. Included will be the name, location, kWh hours saved, energy savings, etc.

3. Describe how your company will position this contract to CPC's participating agencies if awarded.

We will provide a PDF for both email and a printed copy to share with CPC's participating agencies.

4. Describe how you plan to inform and train company personnel on the contract terms and conditions, details, and promotion of the contract. Describe how your organization plans to utilize your marketing and sales staff with this anticipated contract.

We will have as staff meeting to explain the conditions and details of the contract and use the full force of our staff to implement the marketing pieces and strategy with CPC.

Exceptions & Deviations

- **1.** List any additional stipulations and/or requirements your company requests that are not covered in the RFP. None
- 2. List any exceptions your company is requesting to the terms outlined in the Technical Specifications. Respondents must include the following when requesting exceptions:
 - RFP section number and page number
 - Describe the exception
 - Explanation of why this is an issue
 - A proposed alternative to meet the needs of participating agencies and the cooperative

None

References

Provide three (3) references that have purchased Lighting Audit and LED Solutions <u>from your company within the last two (2) years</u>. References from the proposed service area are preferred. A contact name, phone number and email will be required. *Note, ensure your references are prepared to communicate with a representative from CPC. <u>Failure to confirm reference of past work may affect your evaluation.</u>

Reference #1 – Company Name Service/Product Purchased Oconto Falls School District Turnkey LED lighting Installation Year of Purchase Reference Contact Phone Email

Reference #2 – Company Name Service/Product Purchased Year of Purchase Reference Contact Phone Email

Reference #3 - Company Name Service/Purchase Purchased Year of Purchase Reference Contact Phone Email 2021-Current Day Mike Bouche 920-848-4475 Michael.bouche@of-ps.org

Suring School District Turnkey LED Lighting Installation 2019 Greg Jaeger 920-842-2178 jaeggr@suringk12.og

Columbus School District Turnkey LED Lighting Installation 2023 Troy Marshall 920-623-5950 x3158 tmarshall@columbus.k12.wi.us



Vendor Forms & Signatures RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein are forms and information required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the <u>required forms</u>, follow these steps:

- 1. Read the document in its entirety.
- 2. Complete all questions and forms.
- 3. Save all pages in the correct order to a <u>single PDF format</u> titled "Vendor Forms & Signatures Name of Company".
- 4. Submit the forms in the required format with all necessary signatures in Public Purchase.

The following sections will need to be completed prior to submission and submitted as one single PDF titled "Vendor Forms & Signatures – Name of Company":

- 1. Contract Offer & Award
- 2. Uniform Guidance "EDGAR" Certification Form
- 3. <u>Subcontractor Utilization Form</u>

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part II will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | NCLED, LLC | Date | 09/07/2023 | |
|--------------------------------------------------|----------------------------------|------------------|--------------------------------|---|
| Address | 516 N. Eighth Street Unit D | City, State, Zip | De Pere, WI 54115 | |
| Contact Person | Jay Polena | Title | Vice President | - |
| <mark>Authorized Signature</mark> (Email | Jay MPh jay@ncledlighting.com | Title | Vice President 920-328-8948 | ľ |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | | Authorized Signature | |
|-----------------------|----------|-------------------------|--|
| Name | | Title | |
| Awarded this | day of | Contract # | |
| Contract/Agreement to | Соттелсе | | |

EDGAR Certification Form 2 CRF Part 200

REQUIRED CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS – APPENDIX II TO 2 CFR 200

The following provisions are required and apply when federal funds are expended by participating agencies for any contract resulting from this procurement process.

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Vendor Violation or Breach of Contract Terms

Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. Provisions regarding vendor default and legal remedies are included in Sections I.K.18 and I.K.19 above. Any contract award will be subject to such provisions. The remedies under the contract are in addition to any other remedies that may be available under law or in equity.

(B) Termination for Cause and for Convenience

Pursuant to Federal Rule (B) above when federal funds are expended by participating agencies, the participating agency reserves all rights to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by the Vendor, in the event the vendor fails to" (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. The participating agency reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if the participation agency believes, in its sole discretion that it is in the best interest of the participating agency to do so. The vendor will be compensated for work perform and accepted and goods accepted by the participating agency. Any award made under this procurement process is not exclusive and the participating agency reserves the right to purchase goods and services from other vendors when it is in the best interest of the participating agency.

(C) Equal Employment Opportunity

Except as otherwise provided under 41 CFR Part 60, all participating agency purchases or contract that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR Part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

(D) Davis Bacon Act

When required by Federal program legislation, Vendor agrees that, for all participating agency contracts for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, in excess of \$2,000, Vendor shall comply with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the Vendor is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a

Cooperative Purchasing Connection | 888-739-3289 | www.purchasingconnection.org

wage determinate made by the Secretary of Labor. In addition, the Vendor shall pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Vendor must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act

Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. The requirements of the 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions that are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies, materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Right to Inventions Made Under a Contract or Agreement

If the participating agency's Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance or experiments, developmental or research work under the "funding agreement," the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act and Federal Water Pollution Control Act

Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Order 12549 and 12689)

A contract award (see 2 CFR 180.222) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), "Debarment and Suspension." SAM exclusions contain the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Cooperative Purchasing Connection | 888-739-3289 | www.purchasingconnection.org

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Vendors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by participating agencies, the vendor certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, the vendor certifies that it is compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be include in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriated tiers and that all subrecipients shall certify and disclose accordingly.

(J) Procurement of Recovered Materials

For participating agency purchases utilizing Federal funds, Vendor agrees to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act where applicable and provide such information and certifications as a participating agency may require to confirm estimates and otherwise comply. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery, and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

(K) Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment

A participating agency is prohibited from obligating or expending funds to:

- (1) Procure or obtain.
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou

Cooperative Purchasing Connection | 888-739-3289 | www.purchasingconnection.org

Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

- (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
- (iii) Telecommunications or video surveillance equipment or services products or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(L) Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.

For the purpose of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

PROFIT AS A SEPARATE ELEMENT OF PRICE

For purchases using federal funds in excess of \$250,000, a participating agency may be required to negotiate profit as a separate element of the price. See 2 CFRR 200.323(b). When required by a participating agency, the vendor agrees to provide information and negotiate with the participating agency regarding profit as a separate element of the price for a particular purchase. However, vendor agrees that the total price, including profit, charged by the vendor to the participating agency shall not exceed the awarded pricing.

RECORD RETENTION REQUIREMENTS FOR CONTRACTS PAID FOR WITH FEDERAL FUNDS – 2 CFR § 200.333

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The vendor further certified that vendor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending maters are closed.

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that the vendor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conversation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18; Pub. L. 94- 163, 89 Stat. 871).

CERTIFICATION OF NON-COLLUSION STATEMENT

Vendor certifies under penalty of perjury that its responsible to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Pursuant to Federal Ruling, when federal funds are expended by participating agencies, the vendor hereby certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, vendor certifies compliance will all provisions, laws, acts, regulations as specifically noted above. The vendor agrees to comply with all federal, state, and local laws, rules, regulations, and ordinances, as applicable.

| Business Name | NCLED, LLC | Authorized Signature Juy MPCh |
|---------------|------------|----------------------------------|
| Full Name | Jay Polena | Title Vice President |

Subcontractor Utilization Form

Instructions: List all subcontractors to be used during the performance of this contract. Submit additional forms if needed.

| Solicitation Name: Solicitation Number: Vendor Name: | |
|------------------------------------------------------------|-----------------------|
| If a subcontractor will not be | used, check this box: |
| Company Name: | |
| Street Address: | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| Email Address of Contact: | |
| Services to be provided: | |
| Company Name: | |
| Street Address: | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| Email Address of Contact: | |
| Services to be provided: | |
| | |
| Company Name: | |
| Street Address: | |
| City, State, Zip: | |
| Telephone: — | |
| Primary Contact: | |
| Email Address of Contact: | |
| Services to be provided: | |

1- Lighting Audit Services

Instructions. Complete the tables below for the services your company is offerring. Please note this is an REQUIRED form.

NCLED, LLC

Responding Company's Name:

REQUIRED

| Lighting Assessment & Design | | | | | | |
|---------------------------------------------------------------|---------------------|----------------------------|------------|-------------------------|------------------------|-------------------------------------------------------|
| Description | Standard Price & | Discounted Price | Member | Per Diem Charges | Mileage Charges | Notes /Comments |
| non-trans. | Rate | & Rate | Savings | (daily rate, if any) | (per mile, if any) | |
| Lighting Audit & Assessment (per square foot) | Free | Free | #VALUE! | None | None | Our Audits are free |
| Design Services | Free | Free | #VALUE! | None | None | Our Designs are completed in house and are free |
| Project Management | Free | Free | #VALUE! | None | None | Our Project Management is done in house and is free |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| Installation [Labor] **Prevailing wage projects/inst | alls are subject to | <u>higher</u> hourly rates | s/charges. | Prevailing wage r | ates change by MN | county. Participating agencies are required to notify |
| the Vendor if prevailing wages are required (state/federal fi | unding as part or a | ill of the project). | | | | |
| Doconințion | Standard Price & | Discounted Price | Member | Per Diem Charges | Mileage Charges | Notes /Commants |
| nescriptuon | Rate | & Rate | Savings | (daily rate, if any) | (per mile, if any) | |
| Hourly Rate - Regular Hours | \$ 88.00 | \$ 80.00 | 9.09% | None | None | |
| Hourly Rate - Evening | \$ 88.00 | \$ 80.00 | 9.09% | None | None | |
| Hourly Rate - Weekend/Holidays | \$ 132.00 | \$ 120.00 | 9.09% | None | None | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| Other Services | | | | | | |
| Description | Standard Price & | Discounted Price | Member | Per Diem Charges | Mileage Charges | Notes/Comments |
| | Rate | & Rate | Savings | (daily rate, if any) | (per mile, if any) | |
| Rebate Fulfillment | Free | Free | #VALUE! | None | None | Completed in house and is Free |
| Recycling Services | \$ 0.25 | \$ 0.15 | 40.00% | None | None | |
| Training | Free | Free | #VALUE! | None | None | Completed in house and is Free |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |

2.1 - LED Category Discount

*Please note this workbook has multiple tabs.

Instructions. Complete the following schedule for all categories of product offered (by catalog, category, and/or by manufacturer) which can include sub-categories (specific lines from manufacturers) and the discount associated with that category. The form should be completed by the standards listed in the Technical Specifications. Additional rows may be added. This is a required form **if proposing lighting solutions**.

| Responding Company's Name: | | | | NCLED, LLC |
|----------------------------------|---------------------------|--------------|------------------|---------------|
| Category | Catalog | Manufacturor | Discount Offered | REQUIRED FORM |
| | 4ft T8 LED Tube CCT & | | Discount onereu | comments |
| T8 Tubes | Wattage Selectable | Etherium | 10% | |
| T8 Tubes | 2ft LED U-Tube 6" Leg | Falcor | | |
| | Spacing | | 10% | |
| T8 Tubes | 2ft LED U-Tube 1.625" Leg | Falcor | 10% | |
| T8 Tubes | 2ft T8 LED Tube | Falcor | 10% | |
| T8 Tubes | 3ft T8 LED Tube | Falcor | 10% | |
| T5 Tubes | 4ft T5 LED Tube | Falcor | 10% | |
| Bollard | LED Bollard | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| Area Light Fixtures | Area Light | Portor | 10% | |
| | Wattage Tuneable Area | Destas | | |
| Area Light Fixtures | Light | Portor | 10% | |
| Area Light Fixtures | Wattage Tuneable Area | Portor | | |
| | Light | | 10% | |
| Area Light Fixtures | Wattage Tuneable Area | Portor | 10% | |
| | Wattage Tuneable Area | | 1070 | |
| Area Light Fixtures | Light | Portor | 10% | |
| Area Light Accessories | Photocell | Portor | 10% | |
| Area Light Accessories | 480V Photocell | Portor | 10% | |
| Area Light Accessories | Shield for AL2 | Portor | 10% | |
| Area Light Accessories | Shield for AL2 | Portor | 10% | |
| Area Light Accessories | T5 Lens | Portor | 10% | |
| Area Light Mounting | Slip-Fitter | Portor | 10% | |
| Area Light Mounting | Square Pole | Portor | 10% | |
| Area Light Mounting | Trunnion | Portor | 10% | |
| Area Light Mounting | Straight Arm | Portor | 10% | |
| Area Light Mounting | U-Bracket | Portor | 10% | |
| Area Light Mounting | W/Slin-Fitter | Portor | 10% | |
| Area Light Mounting | W Square Pole | Portor | 10% | |
| Area Light Mounting | W Trunnion | Portor | 10% | |
| Area Light Mounting | Straight Arm | Portor | 10% | |
| Area Light Mounting | W U-Bracket | Portor | 10% | |
| Area Light Mounting | W U-Bracket | Portor | 10% | |
| Barn Light Fixture | Barn Light | Portor | 10% | |
| Canopy Fixture | Canopy | Portor | 10% | |
| Canopy Fixture | Canopy | Portor | 10% | |
| Canopy Fixture | Canopy | Portor | 10% | |
| Canopy Accessories | Dimmable Motion Sensor | Portor | 10% | |
| Canopy Accessories | Dimmable Motion Sensor | Portor | 10% | |
| Corn Bulb | Corn Cob Bulb | Portor | 10% | |
| Corn Bulb | Corn Cob Bulb | Portor | 10% | |
| Corn Bulb | Corn Cob Bulb | Portor | 10% | |
| Corn Build Retrofit Downlight | Socket Base Downlight | Portor | 10% | |
| Retrofit Downlight | Socket Base Downlight | Portor | 10% | |
| Retrofit Downlight | Socket Base Downlight | Portor | 10% | |
| Retrofit Downlight | Socket Base Downlight | Portor | 10% | |
| Retrofit Downlight Accessories | 4" Round Trim | Portor | 10% | |
| Retrofit Downlight Accessories | 4" Round Trim | Portor | 10% | |
| Retrofit Downlight Accessories | 4" Kound Trim | Portor | 10% | |
| Retrofit Downlight Accessories | 6" Round Trim | Portor | 10% | |
| Retrofit Downlight Accessories | 6" Round Trim | Portor | 10% | |

| 5CCT Slim Downlight | Downlight Slim Round | Portor | 10% | |
|------------------------------------------|--------------------------|----------|------|---|
| 5CCT Slim Downlight | Downlight Slim Round | Portor | 10% | |
| 5CCT Slim Downlight | Downlight Slim Round | Portor | 10% | |
| 5CCT Slim Downlight | Downlight Slim Round | Portor | 10% | |
| Slim Baffled Round Downlight | Slim Baffled Downlight | Portor | 10% | |
| Slim Baffled Round Downlight | Slim Baffled Downlight | Portor | 10% | |
| Slim Downlight Accessories | Mounting Plate | Portor | 10% | |
| Slim Downlight Accessories | Mounting Plate | Portor | 10% | |
| | 0 | | | |
| Slim Downlight Accessories | Universal Mounting Plate | Portor | 10% | |
| Disk Light | Disk Light | Portor | 10% | |
| Disk Light | Disk Light | Portor | 10% | |
| Disk Light | Disk Light | Portor | 10% | |
| | Disk Light w/ Motion | | | |
| Disck Light With Motion Sensor | Sensor | Portor | 10% | |
| | Disk Light w/ Motion | | 1070 | |
| Disck Light With Motion Sensor | Sensor | Portor | 10% | |
| | 0011001 | | 1070 | |
| Surface Mount Downlight (Round) | Surface Mount Downlight | Portor | 10% | |
| | | | 1070 | |
| Surface Mount Downlight (Round) | Surface Mount Downlight | Portor | 10% | |
| | | | 1070 | |
| Surface Mount Downlight (Round) | Surface Mount Downlight | Portor | 10% | |
| | | | 1070 | |
| Surface Mount Downlight (Round) | Surface Mount Downlight | Portor | 10% | |
| DLSM-B-7-EM | FM Battery | Portor | 10% | |
| Surface Mount Downlight (SO) Accessories | 5" Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 5" Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 5" Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 7" Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 7" Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 7" Pound Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 7 Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 9 Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 9 Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 9 Round Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) | Surface Mount Downlight | Portor | 100/ | |
| | | | 10% | |
| Surface Mount Downlight (SQ) | Surface Mount Downlight | Portor | 100/ | |
| | - | | 10% | |
| Surface Mount Downlight (SQ) | Surface Mount Downlight | Portor | 100/ | |
| | | | 10% | |
| Surface Mount Downlight (SQ) | Surface Mount Downlight | Portor | | |
| | 5 | | 10% | |
| Surface Mount Downlight (SQ) Accessories | 5" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 5" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 5" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 7" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 7" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 7" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 9" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 9" Square Trim | Portor | 10% | |
| Surface Mount Downlight (SQ) Accessories | 9" Square Trim | Portor | 10% | |
| Commercial Downlight 5C3P | Commercial Downlight | Portor | 10% | |
| Commercial Downlight 5C3P | Commercial Downlight | Portor | 10% | |
| Commercial Downlight 5C3P | Commercial Downlight | Portor | 10% | |
| CDL Trim | Trim for Commercial | Portor | | |
| | Downlight | | 10% | |
| CDL Trim | Trim for Commercial | Portor | | |
| | Downlight | | 10% | |
| CDL Trim | Trim for Commercial | Portor | | |
| | Downlight | | 10% | |
| CDL Trim | Trim for Commercial | Portor | | |
| | Downlight | | 10% | |
| CDI Trim | Trim for Commercial | Portor | | |
| | Downlight | 1 01 001 | 10% | |
| CDI Trim | Trim for Commercial | Deuten | | |
| | Downlight | r ortor | 10% | |
| CDL T day | Trim for Commercial | Destas | | |
| | Downlight | 1 01 101 | 10% | |
| CDL To the | Trim for Commercial | Destas | | |
| | Downlight | r ortor | 10% | |
| | Trim for Commercial | Destas | | |
| CDL ITIM | Downlight | Portor | 10% | |
| Glimbal Downlight | Round Gimbal | Portor | 10% | |
| Glimbal Downlight | Round Gimbal | Portor | 10% | |
| Glimbal Downlight | Floating Gimbal | Portor | 10% | |
| Flood Light | Flood Light | Portor | 10% | |
| Flood Light | Flood Light | Portor | 10% | |
| Flood Light | Flood Light | Portor | 10% | |
| Flood Light | Flood Light | Portor | 10% | |
| Flood Light | Flood Light | Portor | 10% | |
| Flood Light | Flood Light | Portor | 10% | |
| | | 1 | | i |

| Flood Light | Flood Light | Portor | 10% | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|--|
| Flood Light | Flood Light | Portor | 10% | |
| Flood Light | FIOOD Light | Politoi | 10% | |
| Flood Light | Flood Light | Portor | 10% | |
| Linear High Bay (LHB | Linear Highbay | Portor | 10% | |
| Linear High Bay (LHB | Linear Highbay | Portor | 10% | |
| Linear High Bay (LHB | Linear Highbay | Portor | 10% | |
| Linear High Bay (LHB | Linear Highbay | Portor | 10% | |
| Linear High Bay (LHB | Linear Highbay | Portor | 10% | |
| | Developet Masset | Destas | 10% | |
| Linear High Bay Accessories | Pendant Wount | Portor | 10% | |
| Linear High Bay Accessories | Surface Mount | Portor | 10% | |
| Linear High Bay Accessories | Wire Guard | Portor | 10% | |
| Linear High Bay Accessories | Wire Guard | Portor | 10% | |
| Linear High Bay Accessories | Remote Control | Portor | 10% | |
| High Bay Round | Round Highbay | Portor | 10% | |
| High Bay Bound | Bound Highbay | Portor | 10% | |
| High Day Round | Downed Lighbour | Denten | 10% | |
| nigii bay Round | Round Highbay | - | 10% | |
| High Bay Round | Round Highbay | Portor | 10% | |
| High Bay Round | Round Highbay | Portor | 10% | |
| High Bay Round | Round Highbay | Portor | 10% | |
| High Bay Round | Round Highbay | Portor | 10% | |
| High Bay Round Mounting Options | Small U-bracket | Portor | 10% | |
| High Bay Round Mounting Options | Large U-bracket | Portor | 10% | |
| High Bay Bound Reflector Ontions | Motion sensor | Portor | 10% | |
| High Day Round Deflector Options | Motion sensor | Denten | 10% | |
| High Bay Round Reflector Options | NOTION SELISO | - | 10% | |
| High Bay Round Reflector Options | Remote Control | Portor | 10% | |
| High Bay Round Reflector Options | PC Reflector | Portor | 10% | |
| High Bay Round Reflector Options | PC Reflector | Portor | 10% | |
| High Bay Round Reflector Options | Reflector | Portor | 10% | |
| High Bay Round Reflector Options | Reflector | Portor | 10% | |
| High Bay Round Reflector Options | PC Reflector | Portor | 10% | |
| High Bay Round Reflector Options | PC Reflector | Portor | 10% | |
| High Day Round Reflector Options | Wire Guard | Portor | 10% | |
| | Wire Guard | Portor | 10% | |
| High Bay Round Reflector Options | Wire Guard | Portor | 10% | |
| Panel- Backlit Fixture | Back-Lit Panel | Portor | 10% | |
| Panel- Backlit Fixture | Back-Lit Panel | Portor | 10% | |
| Panel- Backlit Fixture | Back-Lit Panel | Portor | 10% | |
| Backlit Panel Accessories | Surface Mount Kit | Portor | 10% | |
| Backlit Panel Accessories | Surface Mount Kit | Portor | 10% | |
| Backlit Panel Accessories | Surface Mount Kit | Portor | 10% | |
| Backlit Panel Accessories | Flange Kit | Portor | 10% | |
| Backlit Panel Accessories | Flange Kit | Portor | 10% | |
| Backlit Panel Accessories | Flange Kit | Portor | 10% | |
| Area Light Brackets /Poles | Wall Mount | Portor | 10% | |
| Area Light Brackets/Foles | Wall Mount | Portor | 10% | |
| Area Light Brackets/Foles | Wall Mount | Portor | 10% | |
| | | Porto | 10% | |
| Area Light Brackets/Poles | | Portor | 10% | |
| Area Light Brackets/Poles | 1 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 2 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 4 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 1 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 2 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 3 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 4 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 1 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 2 Prong Tenon | Portor | 10% | |
| Area Light Brackets/Poles | 3 Prong Tenon | Portor | 10% | |
| Area Light Brackets /Poles | 4 Prong Tenon | Portor | 10% | |
| I S1 Strin Light | Ctrin Light | Portor | 10% | |
| | | Politoi | 10% | |
| LS1 Strip Light | Strip Light | Portor | 10% | |
| LS1 Strip Light | Strip Light w/ EM | Portor | 10% | |
| LS1 Strip Light | Strip Light w/ EM | Portor | 10% | |
| Wire Guard | Wire Guard | Portor | 10% | |
| Stairwell Light | Stairwell Light | Portor | 10% | |
| Stairwell Light | Stairwell Light | Portor | 10% | |
| Troffer | Troffer 2x2 | Portor | 10% | |
| Troffer | Troffer 2x4 | Portor | 10% | |
| Troffer Accessories | Surface Mount Kit | Portor | 10% | |
| Troffer Accessories | Surface Mount Kit | Portor | 10% | |
| | | Portor | 10% | |
| | 2x2 Flange Kit | Portor | 10% | |
| Trotter Accessories | Zx4 Flange Kit | PUTTOT | 10% | |
| vapor Tight | vapor Tight | Portor | 10% | |
| Vapor Tight | Vapor Tight | Portor | 10% | |
| Vapor Tight | Vapor Tight | Portor | 10% | |
| Vapor Tight | Vapor Tight | Portor | 10% | |
| VT2 | Vapor Tight | Portor | 10% | |
| VT2 | | Dortor | 10% | |
| | Vapor Tight | FUILUI | = = 70 | |
| Wall Pack | Vapor Tight Wall Pack | Portor | 10% | |
| Wall Pack Wall Pack | Vapor Tight Wall Pack Wall Pack | Portor Portor | 10% 10% | |
| Wall Pack Wall Pack Wall Pack W/EM Installed | Vapor Tight Wall Pack Wall Pack Wall Pack W/ EM | Portor Portor Portor | 10% 10% 10% | |
| Wall Pack Wall Pack Wall Pack W/EM Installed Wall Pack W/EM Installed | Vapor Tight Wall Pack Wall Pack Wall Pack W/ EM Wall Pack W/ EM | Portor Portor Portor Portor | 10% 10% 10% 10% | |
| Wall Pack Wall Pack Wall Pack W/EM Installed Wall Pack W/EM Installed Full Gutoff Wall Pack | Vapor Tight Wall Pack Wall Pack Wall Pack W/ EM Wall Pack W/ EM Full Cutoff Wall Pack | Portor Portor Portor Portor Portor Portor Portor Portor | 10% 10% 10% 10% | |
| Wall Pack Wall Pack Wall Pack W/EM Installed Wall Pack W/EM Installed Full Cutoff Wall Pack Full Cutoff Wall Pack | Vapor Tight Wall Pack Wall Pack Wall Pack W/ EM Wall Pack W/ EM Full Cutoff Wall Pack Eull Cutoff Wall Pack | Portor Portor Portor Portor Portor Portor | 10% 10% 10% 10% 10% 10% | |
| Wall Pack Wall Pack Wall Pack W/EM Installed Wall Pack W/EM Installed Full Cutoff Wall Pack Full Cutoff Wall Pack Wall Pack Mini | Vapor Tight Wall Pack Wall Pack Wall Pack W/ EM Wall Pack W/ EM Full Cutoff Wall Pack Mini Wall Pack | Portor Portor Portor Portor Portor Portor Portor Portor | 10% 10% 10% 10% 10% 10% 10% | |

| Wall Pack Mini | Mini Wall Pack | Portor | 10% | |
|------------------------------------|-------------------------|----------|-------|--|
| Wall Pack Mini | Mini Wall Pack | Portor | 10% | |
| Motion Sensor | Motion Sensor | Portor | 10% | |
| Motion Sensor | Motion Sensor | Portor | 10% | |
| Motion Sensor | Motion Sensor | Portor | 10% | |
| Wrap Around | Wrap Around | Portor | 10% | |
| Wrap Around | Wrap Around | Portor | 10% | |
| Emergency Light | Exit light / Double | Portor | 10% | |
| Emergency Light | Exit Light w/ EM Lights | Portor | 10% | |
| Emergency Light | Emergency Light | Portor | 10% | |
| Cable | Aircraft Cable | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| | EM Battery | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| Emergency Batteries | EM Battery | Portor | 10% | |
| Photocell | Photocell | Portor | 10% | |
| Photocell | Photocell | Portor | 10% | |
| Photocell | Motion Sensor | Portor | 10% | |
| Photocell | Remote Control | Portor | 10% | |
| Wire Connectors and Junction Boxes | Junction Box | Portor | 10% | |
| Wire Connectors and Junction Boxes | 3-prong Connector | Portor | 10% | |
| Wire Connectors and Junction Boxes | 5-prong Wire Connector | Portor | 10% | |
| Whip | Metal Whip 5 Wire | Portor | 10% | |
| Whip | Metal Whip 6 Wire | Portor | 10% | |
| Whip | 90° Whip Connector | Portor | 10% | |
| CLVS-MO | Vapor Tight | Colossus | 10% | |
| CLVS-MO | Vapor Tight | Colossus | 10% | |
| CLVS-WD | Vapor Tight | Colossus | 10% | |
| Tri Proof Light | Tri-proof | Colossus | 10% | |
| Tri Proof Light | Tri-proof | Colossus | 10% | |
| Tri Proof Light | Tri-proof | Colossus | 10% | |
| Tri Proof Light | Tri-proof | Colossus | 10% | |
| Tri Proof Light | Tri-proof | Colossus | 10% | |
| Tri Proof Light | Tri-proof | Colossus | 10% | |
| High Bay Round | HALO Highbay | Colossus | 10% | |
| High Bay Round | HALO Highbay | Colossus | 10% | |
| High Bay Round | HALO Highbay | Colossus | 10% | |
| High Bay Round | HALO Highbay | Colossus | 10% | |
| High Bay Round | HALO Highbay | Colossus | 10% | |
| High Bay Round | HALO Highbay | Colossus | 10% | |
| Flood Light Fixture | Flood Light | Colossus | 10% | |
| Flood Light Fixture | Flood Light | Colossus | 10% | |
| Flood Light Fixture | Flood Light | Colossus | 10% | |
| CLFL1 Accessories | 30 degree lens | Colossus | 10% | |
| | | | 1.00. | |

| ıts | e tabs. |
|--------------|------------|
| cour | is multipl |
| e Dis | kbook ha |
| lum | this wor |
| - Vo | ease note |
| \mathbf{c} | ld* |

Instructions. Complete the form below if your company is offering additional discounts for a one time purchase, size of project, or a group of local agencies in a geographic area combining requirements (estimate annual spend). Please note this is an optional form.

| Responding Company's Nam | he: | NCLED, LLC | OPTIONAL FORM |
|---------------------------------|------------------|------------------------------|-----------------------------|
| | | | |
| Dollar Amount From | Dollar Amount To | Catalog/Product/Manufacturer | Additional Discount Offered |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SCOPE OF WORK

The following is included in the LED upgrade for Antigo High School.

- Complete walkthrough of all areas with I-PAD using Eco Insight
- Determine what solutions are best for each area
- Discover energy & maintenance savings (72% energy, 100% Maintenance)
- Provide point of contacts for billing, installation, questions
- Provide turnkey project costs (\$350,649.00 rebates \$32,740)
- Pre start discussion on staging materials & plan of progression
- Install all products in the outlined proposal up to code.
- This project will be completed during the summer with a projected completion time of 5 weeks.
- Process final invoice & Focus on Energy after final walkthrough

The quote includes all material, labor, lifts, travel, recycling, and paperwork for the Focus on Energy rebates.

NCLED 516 N 8th St, Unit D DePere, WI 54115

LIGHTING RETROFIT PROPOSAL

Prepared for Jake Leiterman Supervisor of Buildings & Grounds

Site Information

| Name: | Antigo High School |
|-------|--------------------|
| | |

Address: 1900 10th Ave Antigo WI 54409



NCL

January 31, 2022

Proposal Expires

Jay Polena Vice President 920.655.2468 jay@ncledlighting.com



Executive Summary

| Project Costs | | Financial Metrics | |
|----------------------|-----------|-------------------------|-----------|
| Total Project Cost | \$350,649 | Payback Period (yrs) | 6.17 |
| Sales Tax | \$0 | Avg. Annual Return | 16% |
| Incentives/Rebates | \$32,740 | 10 Yr Operating Savings | \$495,586 |
| Turnkey Project Cost | \$317,909 | Net Present Value | \$57,984 |

Cost of Waiting

| Postpone for one month | \$4,130 | Energy Rate (\$/kWh) | 0.1006 |
|-------------------------|----------|------------------------------|--------|
| Postpone for six months | \$24,779 | Annual Utility Rate Increase | 0.00% |
| Postpone for one year | \$49,559 | Discount Rate | 6.00% |

Usage (kWh)





Assumptions

Maintenance Cost









Proposed Savings



Impact of New Lighting

Aggregate Operating Savings

| Energy Reduction | 72% | Saving Area | Year 1 | Year 5 | Year 10 |
|---------------------------------|------|-------------|----------|-----------|-----------|
| Avg. Annual Maintenance Savings | 100% | Energy | \$44,443 | \$222,215 | \$444,429 |
| Avg. Annual Operating Savings | 74% | Maintenance | \$646 | \$23,282 | \$51,157 |
| | | Total | \$45.089 | \$245,497 | \$495.586 |

Aggregate Cash Flow Over Ten Years



Itemized Cash Flow

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Project Cost | \$(350,649) | - | - | - | - | - | - | - | - | - |
| Rebates | \$32,740 | - | - | - | - | - | - | - | - | - |
| Energy Savings | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 |
| Maintenance Savings | \$646 | \$3,914 | \$11,369 | \$11 | \$7,342 | \$24,123 | \$1,915 | \$572 | \$8 | \$1,256 |
| Net Cash Flow | \$(272,820) | \$48,357 | \$55,812 | \$44,454 | \$51,785 | \$68,566 | \$46,358 | \$45,015 | \$44,451 | \$45,699 |



Cash Flow

We understand that finalizing a project like this often takes time. However, each day you delay your upgrade, you are missing out on the opportunity to reduce your operating expenses. As shown below, the lost opportunity continues to compound over time.

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | Total |
|---------------------|-------------|-------------|-------------|-------------|------------|-----------|----------|----------|-----------|-----------|-------------|
| Project Cost | \$(350,649) | - | - | - | - | - | - | - | - | - | \$(350,649) |
| Rebates | \$32,740 | - | - | - | - | - | - | - | - | - | \$32,740 |
| Energy Savings | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$444,429 |
| Maintenance Savings | \$646 | \$3,914 | \$11,369 | \$11 | \$7,342 | \$24,123 | \$1,915 | \$572 | \$8 | \$1,256 | \$51,157 |
| Net Cash Flow | \$(272,820) | \$48,357 | \$55,812 | \$44,454 | \$51,785 | \$68,566 | \$46,358 | \$45,015 | \$44,451 | \$45,699 | \$177,677 |
| Cum Cash Flow | \$(272,820) | \$(224,463) | \$(168,651) | \$(124,197) | \$(72,412) | \$(3,846) | \$42,512 | \$87,527 | \$131,978 | \$177,677 | \$177,677 |

10 Year Cash Flow Analysis







Cost of Waiting

The cost of waiting shows the amount of cash your company will be losing if you delay the proposed lighting upgrade.



Cost of waiting includes energy savings and maintenance savings applied as an average annual amount over a 10 year analysis period



Energy Usage

The following set of information evaluates your current energy usages and costs and compares that to the projected energy usage and costs your facility will see after the proposed lighting upgrade.

Annual Energy Usage

| Current Usage | Projected | Reduction | Current | Projected | Financial | Percent |
|---------------|-------------|-----------|----------|-----------|-----------|---------|
| (kWh) | Usage (kWh) | | Cost | Cost | Savings | Saved |
| 611,998 | 170,219 | 72% | \$61,567 | \$17,124 | \$44,443 | 72% |

1. Energy cost = \$0.1006/kWh; Annual energy cost escalation = 0.00%

2. Energy costs are averaged over 10 year analysis period

3. Projected Usage (kWh) includes savings from controls if applicable

Annual Energy Usage Reduction

| Current Usage (kWh) | Projected Usage (kWh) | Reduction (kWh) | Reduction |
|---------------------|-----------------------|-----------------|-----------|
| 611,998 | 170,219 | 441,779 | 72% |



Energy Comparison

- 1. Energy Cost = \$0.1006/kWh; Annual energy cost escalation = 0.00%
- 2. Energy costs are averaged over 10 year analysis period



Watts Summary

| Existing Watts | Proposed Watts | Reduced Watts | Reduction |
|----------------|----------------|---------------|-----------|
| 301,079 | 83,525 | 217,554 | 72% |

The calculations in this table take into account the existing fixtures that are being replaced, upgraded, and/or have new lighting controls being proposed for them

Lighting Wattage Comparison

Exterior

| | | | | Total | | | | Total | Burn |
|-----------|--------------------|-----|-------|--------|------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| Recessed | Area Light/Mercury | 18 | 454.0 | 8,172 | Part No: SB 150 | 18 | 150.0 | 2,700 | 4,380 |
| Cans | Vapor/400.0W/1 | | | | Area & Site | | | | |
| | Lamp | | | | | | | | |
| Recessed | Downlight/Metal | 13 | 210.0 | 2,730 | Part No: CC30 | 13 | 30.0 | 390 | 4,380 |
| Cans | Halide/175.0W/1 | | | | Garage & Canopy/Retrofit Kit | | | | |
| | Lamp | | | | | | | | |
| Wallpacks | Wallpack/High | 19 | 188.0 | 3,572 | Part No: STD WP 50 | 19 | 50.0 | 950 | 4,380 |
| | Pressure | | | | Wall Mount | | | | |
| | Sodium/150.0W/1 | | | | | | | | |
| | Lamp | | | | | | | | |
| Total | | | 852.0 | 14,474 | | | 230.0 | 4,040 | |

Interior

| | | | | Total | | | | Total | Burn |
|-----------|--------------------|-----|-------|-------|---------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A Hallway | Troffer/T8 | 27 | 74.9 | 2,022 | Part No: Backlit FP24 | 27 | 30.0 | 810 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A101/A102 | Downlight/Incandes | 2 | 150.0 | 300 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 521 |
| | cent/150.0W/1 | | | | Downlight/Retrofit Kit | | | | |
| | Lamp | | | | | | | | |
| A103 | Strip/T12 | 20 | 75.0 | 1,500 | Part No: PT-LSFA-4F | 20 | 25.0 | 500 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/40.0W/2 Lamp | | 75.0 | 1.500 | D + N - DT + 05 4 45 | | 25.0 | 500 | 4.000 |
| A104 | Strip/112 | 20 | /5.0 | 1,500 | Part No: PI-LSFA-4F | 20 | 25.0 | 500 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| A105 | Traffar/To | 2 | 74.0 | 150 | | 2 | 20.0 | 60 | 1.000 |
| A105 | Irotter/18 | 2 | /4.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | fluorescent/4 | | | | Troffers & Panels | | | | |
| A106 | Troffor/To | 2 | 140.9 | 200 | Part No: Packlit ED24 | 2 | 20.0 | 60 | 1 000 |
| AIUO | Eluoroscont/4 | | 149.0 | 500 | Troffors & Papels | | 50.0 | 00 | 1,900 |
| | ft/32 0W/4 lamp | | | | | | | | |
| A108 | Troffer/T8 | 1 | 74.9 | 75 | Part No: Backlit EP24 | 1 | 30.0 | 30 | 521 |
| A100 | Fluorescent/4 | - | 74.5 | ,5 | Troffers & Panels | 1 | 50.0 | 50 | 521 |
| | ft/32 0W/2 Lamp | | | | | | | | |
| A109 | Strip/T12 | 31 | 75.0 | 2.325 | Part No: PT-LSFA-4F | 31 | 25.0 | 775 | 1.900 |
| | Fluorescent/4 | | | , | Linear | | | | , |
| | ft/40.0W/2 Lamp | | | | | | | | |
| A110 | Troffer/T8 | 11 | 149.8 | 1,648 | Part No: Backlit FP24 | 11 | 30.0 | 330 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|---------|----------------------------------|-----|-------|-------|---------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A111 | Strip/T8 | 2 | 56.3 | 113 | Part No: PT-LSFA-4F | 2 | 25.0 | 50 | 1,900 |
| | Fluorescent/4 ft/32.0W/2 Lamp | | | | Linear | | | | |
| A112 | Wrap/T8 | 4 | 56.3 | 225 | Part No: PT-WAFA-4F91-3CCT | 4 | 30.0 | 120 | 2,100 |
| Hallway | Fluorescent/4 ft/32.0W/2 Lamp | | | | Wrap | | | | |
| A113 | Strip/T12 | 32 | 75.0 | 2,400 | Part No: PT-LSFA-4F | 32 | 25.0 | 800 | 1,900 |
| | fluorescent/4 ft/40.0W/2 Lamp | | | | Linear | | | | |
| A114 | Strip/T8 | 4 | 56.3 | 225 | Part No: PT-LSFA-4F | 4 | 25.0 | 100 | 1,900 |
| | fluorescent/4 | | | | Linear | | | | |
| A115 | Downlight/Incandes | 2 | 150.0 | 300 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 1.900 |
| | cent/150.0W/1 | | | | Downlight/Retrofit Kit | | | | |
| | Lamp | | | | | | | | |
| A116 | Wrap/T8 | 2 | 56.3 | 113 | Part No: PT-WAFA-4F91-3CCT | 2 | 30.0 | 60 | 1,900 |
| | ft/32 0W/2 Lamp | | | | Wrap | | | | |
| A117 | Wrap/T8 | 4 | 56.3 | 225 | Part No: PT-WAFA-4F91-3CCT | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Wrap | | | | , |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A118 | Troffer/T8 | 24 | 149.8 | 3,595 | Part No: Backlit FP24 | 24 | 30.0 | 720 | 1,900 |
| | fluorescent/4 | | | | Troffers & Panels | | | | |
| A119 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A120 | Troffer/T8 | 18 | 149.8 | 2,696 | Part No: Backlit FP24 | 18 | 30.0 | 540 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| A121 | Troffer/T8 | 1 | 56.3 | 56 | Part No: Backlit FP 14 | 1 | 20.0 | 20 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | 56.0 | 5.0 | | | | | 1.000 |
| A122 | Fluorescent/4 | 1 | 56.3 | 56 | Part No: Backlit FP 14 Troffers & Panels | 1 | 20.0 | 20 | 1,900 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A123 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| Δ126 | Tt/32.0W/4 Lamp | 2 | 150.0 | 300 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 1 900 |
| A120 | cent/150.0W/1 | 2 | 150.0 | 500 | Downlight/Retrofit Kit | 2 | 24.0 | -10 | 1,500 |
| | Lamp | | | | | | | | |
| A126 | Troffer/T8 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A127 | Troffer/T8 | 12 | 149.8 | 1.798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | , |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A128 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | ft/32 0W/4 Lamp | | | | Troffers & Panels | | | | |
| A129 | Troffer/T8 | 2 | 74.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A130 | Irotter/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A131 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|-------|---------------------------|-----|-------|-------|---------------------------|----------------|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A132 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A133 | Strip/T8 | 3 | 56.3 | 169 | Part No: PT-ISEA_AE | 3 | 25.0 | 75 | 1 900 |
| A133 | Fluorescent/4 | | 50.5 | 105 | Linear | | 23.0 | 75 | 1,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A135 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A137 | Vapor Tight/T8 | 4 | 56.3 | 225 | Part No: PT-VT1-4F-45W | 4 | 45.0 | 180 | 1,900 |
| | ft/32 0W/2 Lamp | | | | Vapor light | | | | |
| A138 | Troffer/T8 | 2 | 56.3 | 113 | Part No: Backlit FP 14 | 2 | 20.0 | 40 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | , |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A139 | Vapor Tight/T8 | 18 | 56.3 | 1,013 | Part No: PT-VT1-4F-45W | 18 | 45.0 | 810 | 1,900 |
| | Fluorescent/4 | | | | Vapor Tight | | | | |
| A140 | Tt/32.0W/2 Lamp | 1 | 15.9 | 16 | Part No: CAN TRIM & WIRED | 1 | 24.0 | 24 | 1 900 |
| A140 | Base/26.0W/2 Lamp | 1 | 45.0 | 40 | Downlight/Retrofit Kit | 1 ¹ | 24.0 | 24 | 1,900 |
| A141 | Troffer/T8 | 3 | 56.3 | 169 | Part No: Backlit FP 14 | 3 | 20.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A143 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A144 | Troffor/CEL | 2 | 70.4 | 1/1 | Part No: Packlit EP22 | 2 | 25.0 | 50 | 1 000 |
| A144 | TT5/40.0W/2 Lamp | 2 | 70.4 | 141 | Troffers & Panels | 2 | 25.0 | 50 | 1,900 |
| A145 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A147 | Vapor Tight/T8 | 6 | 56.3 | 338 | Part No: PT-VT1-4F-45W | 6 | 45.0 | 270 | 1,900 |
| | Fluorescent/4 | | | | Vapor light | | | | |
| A148 | Troffer/T8 | 1 | 56.3 | 56 | Part No: Backlit EP 14 | 1 | 20.0 | 20 | 1 900 |
| 71110 | Fluorescent/4 | - | 50.5 | 50 | Troffers & Panels | | 20.0 | 20 | 1,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A149 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| 4150 | ft/32.0W/4 Lamp | 2 | 70.4 | 1.4.1 | Deat Net Death (DDD) | 2 | 25.0 | 50 | 1.000 |
| A150 | TT5/40.0W/2 Lamp | 2 | /0.4 | 141 | Troffers & Panels | 2 | 25.0 | 50 | 1,900 |
| A153 | Troffer/T8 | 3 | 56.3 | 169 | Part No: Backlit FP 14 | 3 | 20.0 | 60 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | _/ |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A154 | Downlight/CFL Pin | 1 | 45.8 | 46 | Part No: CAN TRIM 8 WIRED | 1 | 24.0 | 24 | 1,900 |
| | Base/26.0W/2 Lamp | 10 | 56.2 | 676 | Downlight/Retrofit Kit | 10 | 25.0 | 200 | 1.000 |
| A155 | Strip/18 Eluorescent// | 12 | 56.3 | 6/6 | Part No: P1-LSFA-4F | 12 | 25.0 | 300 | 1,900 |
| | ft/32.0W/2 Lamp | | | | Linear | | | | |
| A156 | Troffer/T8 | 4 | 149.8 | 599 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A157 | Troffer/T8 | 2 | 74.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | fluorescent/4 | | | | Trotters & Panels | | | | |
| A158 | Troffer/CFI | 3 | 70.4 | 211 | Part No: Backlit EP22 | 3 | 25.0 | 75 | 1.900 |
| | TT5/40.0W/2 Lamp | | | | Troffers & Panels | | | | 1,000 |
| A159 | Strip/T8 | 1 | 56.3 | 56 | Part No: PT-LSFA-4F | 1 | 25.0 | 25 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |



| | | _ | | Total | | | | Total | Burn |
|-------------|---------------------------|-----|--------|-------|---------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A160 | Troffer/CFL | 3 | /0.4 | 211 | Part No: Backlit FP22 | 3 | 25.0 | /5 | 1,900 |
| A161 | Downlight/CEL Din | 2 | 15.0 | 02 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 10 | 1 900 |
| AIOI | Base/26.0W/2 Lamp | 2 | 43.0 | 52 | Downlight/Retrofit Kit | 2 | 24.0 | 40 | 1,900 |
| A201 Stairs | Strip/T8 | 1 | 56.3 | 56 | Part No: PT-LSFA-4F | 1 | 25.0 | 25 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A202 | Troffer/T8 | 5 | 112.3 | 562 | Part No: Backlit FP24 | 5 | 30.0 | 150 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A 202 | Troffor/T9 | 2 | 112.2 | 225 | Part No: Backlit ED24 | 2 | 20.0 | 60 | 1 900 |
| A203 | Fluorescent/4 | 2 | 112.5 | 225 | Troffers & Panels | 2 | 50.0 | 00 | 1,500 |
| | , ft/32.0W/3 Lamp | | | | | | | | |
| A204 | Troffer/T8 | 2 | 112.3 | 225 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| 4205 | ft/32.0W/3 Lamp | 10 | 56.0 | 676 | | 10 | 25.0 | 200 | 1.000 |
| A205 | Strip/18 Eluorescent/4 | 12 | 56.3 | 6/6 | Part No: PI-LSFA-4F | 12 | 25.0 | 300 | 1,900 |
| | ft/32.0W/2 Lamp | | | | Linear | | | | |
| A210/A212 | Strip/T8 | 12 | 56.3 | 676 | Part No: PT-LSFA-4F | 12 | 25.0 | 300 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | ŕ |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A211 | Strip/T8 | 8 | 56.3 | 450 | Part No: PT-LSFA-4F | 8 | 25.0 | 200 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| 1012 | Strip/T9 | 15 | 56.2 | 0/5 | Part No: DT ISEA 4E | 15 | 25.0 | 275 | 1 000 |
| A215 | Fluorescent/4 | 10 | 50.5 | 045 | Linear | 15 | 23.0 | 373 | 1,900 |
| | ft/32.0W/2 Lamp | | | | Enreal | | | | |
| B Elevator | Troffer/T8 | 4 | 74.9 | 300 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| 2nd Floor | Fluorescent/4 | | | | Troffers & Panels | | | | |
| Area | ft/32.0W/2 Lamp | | | | | | | | |
| B Hallway | Irotter/18 | 14 | /4.9 | 1,049 | Part No: Backlit FP24 | 14 | 30.0 | 420 | 1,900 |
| | ft/32 0W/2 Lamp | | | | | | | | |
| B Hallway | Troffer/T8 | 3 | 56.3 | 169 | Part No: Backlit FP 14 | 3 | 20.0 | 60 | 1,900 |
| , | Fluorescent/4 | | | | Troffers & Panels | | | | · |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B105 | Strip/T8 | 8 | 56.3 | 450 | Part No: PT-LSFA-4F | 8 | 25.0 | 200 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| B106 | Troffer/T8 | 6 | 1/19.8 | 800 | Part No: Backlit EP24 | 6 | 30.0 | 180 | 1 900 |
| DIGO | Fluorescent/4 | 0 | 145.0 | 055 | Troffers & Panels | | 50.0 | 100 | 1,500 |
| | , ft/32.0W/4 Lamp | | | | | | | | |
| B107 | Vapor Tight/T8 | 1 | 56.3 | 56 | Part No: PT-VT1-4F-45W | 1 | 45.0 | 45 | 1,900 |
| | Fluorescent/4 | | | | Vapor Tight | | | | |
| | ft/32.0W/2 Lamp | 2 | 140.0 | 200 | | 2 | 20.0 | 60 | 1.000 |
| BIO8 | Fluoroscont/4 | 2 | 149.8 | 300 | Troffors & Papels | 2 | 30.0 | 60 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| B109 | Strip/T8 | 3 | 56.3 | 169 | Part No: PT-LSFA-4F | 3 | 25.0 | 75 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B110 | Vapor Tight/T8 | 12 | 56.3 | 676 | Part No: PT-VT1-4F-45W | 12 | 45.0 | 540 | 1,900 |
| | fluorescent/4 | | | | vapor light | | | | |
| B112 | Strip/T8 | 6 | 56.3 | 338 | Part No: PT-LSEA-4E | 6 | 25.0 | 150 | 1.900 |
| | Fluorescent/4 | Ŭ | 50.0 | 200 | Linear | | 20.0 | 100 | _/000 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B113 | Troffer/T8 | 6 | 149.8 | 899 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | 11/32.0W/4 Lamp | | | | | | | | |





| C | | | 14/-14- | Total | Description of Cale Man | 0 | | Total | Burn |
|---------------------|----------------------------------------------------|-----|---------|-------|--------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | watts | watts | Proposed Solution | Qty | watts | watts | Hours |
| B114 | Fluorescent/4 ft/32.0W/2 Lamp | 4 | 56.3 | 225 | Part No: P1-V11-4F-45W Vapor Tight | 4 | 45.0 | 180 | 1,900 |
| B119/B120 | Troffer/CFL TT5/40.0W/2 Lamp | 2 | 70.4 | 141 | Part No: Backlit FP22 Troffers & Panels | 2 | 25.0 | 50 | 1,900 |
| B121/B122 | Troffer/T8 Fluorescent/4 | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| D122 | tt/32.0W/2 Lamp | 2 | 56.2 | 110 | | 2 | 45.0 | 00 | 1.000 |
| B123 | Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Vapor Tight | Z | 45.0 | 90 | 1,900 |
| B124/B125 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 2 | 149.8 | 300 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| B124/B125 | Vapor Tight/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 56.3 | 56 | Part No: PT-VT1-4F-45W Vapor Tight | 1 | 45.0 | 45 | 1,900 |
| B126 | Vapor Tight/T8 Fluorescent/4 ft/32.0W/2 Lamp | 12 | 56.3 | 676 | Part No: PT-VT1-4F-45W Vapor Tight | 12 | 45.0 | 540 | 1,900 |
| B129 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 7 | 56.3 | 394 | Part No: PT-LSFA-4F Linear | 7 | 25.0 | 175 | 1,900 |
| B132 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 74.9 | 75 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| B132 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 21 | 149.8 | 3,146 | Part No: Backlit FP24 Troffers & Panels | 21 | 30.0 | 630 | 1,900 |
| B134 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 3 | 112.3 | 337 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| B135 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 3 | 149.8 | 449 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| B136 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-LSFA-4F Linear | 2 | 25.0 | 50 | 521 |
| B137 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 6 | 149.8 | 899 | Part No: Backlit FP24 Troffers & Panels | 6 | 30.0 | 180 | 1,900 |
| B138 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 4 | 112.3 | 449 | Part No: Backlit FP24 Troffers & Panels | 4 | 30.0 | 120 | 1,900 |
| B201 Stairs/hall | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 4 | 56.3 | 225 | Part No: PT-LSFA-8F Linear | 4 | 55.0 | 220 | 1,900 |
| B201 Stairs/hall | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 74.9 | 75 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| B202 | Wrap/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-WAFA-4F91-3CCT Wrap | 2 | 30.0 | 60 | 1,900 |
| B203 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 15 | 56.3 | 845 | Part No: PT-LSFA-8F Linear | 15 | 55.0 | 825 | 1,900 |
| B204 | Highbay/Metal Halide/250.0W/1 Lamp | 18 | 295.0 | 5,310 | Part No: UFO 100 Highbays & Lowbays | 18 | 100.0 | 1,800 | 1,900 |
| B204 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 5 | 56.3 | 282 | Part No: PT-LSFA-8F Linear | 5 | 55.0 | 275 | 1,900 |



| | | | | Total | | | | Total | Burn |
|-----------------------------|------------------------------------------------|-----|-------|-------|---------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| B205 | Strip/T8 Fluorescent/4 | 10 | 56.3 | 563 | Part No: PT-LSFA-4F Linear | 10 | 25.0 | 250 | 1,900 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B206 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 3 | 56.3 | 169 | Part No: PT-LSFA-4F Linear | 3 | 25.0 | 75 | 1,900 |
| B207 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 6 | 56.3 | 338 | Part No: PT-LSFA-4F Linear | 6 | 25.0 | 150 | 1,900 |
| B208 | Wrap/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-WAFA-4F91-3CCT Wrap | 2 | 30.0 | 60 | 1,900 |
| C Hallways | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 53 | 74.9 | 3,970 | Part No: Backlit FP24 Troffers & Panels | 53 | 30.0 | 1,590 | 1,900 |
| C103/C104 /C105/C10 6 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 4 | 56.3 | 225 | Part No: Backlit FP 14 Troffers & Panels | 4 | 20.0 | 80 | 1,900 |
| C107 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 12 | 56.3 | 676 | Part No: PT-LSFA-4F Linear | 12 | 25.0 | 300 | 1,900 |
| C109-C115 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 74.9 | 75 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| C109-C115 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 10 | 112.3 | 1,123 | Part No: Backlit FP24 Troffers & Panels | 10 | 30.0 | 300 | 1,900 |
| C109-C115 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 2 | 149.8 | 300 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C116 | Strip/T12 Fluorescent/4 ft/40.0W/2 Lamp | 74 | 75.0 | 5,550 | Part No: PT-LSFA-4F Linear | 74 | 25.0 | 1,850 | 1,900 |
| C118 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C119 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 4 | 112.3 | 449 | Part No: Backlit FP24 Troffers & Panels | 4 | 30.0 | 120 | 1,900 |
| C120 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C121-C124 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 6 | 112.3 | 674 | Part No: Backlit FP24 Troffers & Panels | 6 | 30.0 | 180 | 1,900 |
| C125 | Strip/T12 Fluorescent/4 ft/40.0W/2 Lamp | 36 | 75.0 | 2,700 | Part No: PT-LSFA-4F Linear | 36 | 25.0 | 900 | 1,900 |
| C126 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C127 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 1 | 149.8 | 150 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| C128 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C130 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 8 | 149.8 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 8 | 30.0 | 240 | 1,900 |



| | | | | Total | | | | Total | Burn |
|-----------|------------------------------------------------|-----|-------|-------|-----------------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| C133 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 3 | 112.3 | 337 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| C134/C135 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C136 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 2 | 149.8 | 300 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C144 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C145 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 1 | 112.3 | 112 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| C146 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 56.3 | 56 | Part No: Backlit FP 14 Troffers & Panels | 1 | 20.0 | 20 | 1,900 |
| C147 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 3 | 74.9 | 225 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| C148 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C201 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 6 | 56.3 | 338 | Part No: PT-LSFA-4F Linear | 6 | 25.0 | 150 | 1,900 |
| C203 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 13 | 74.9 | 974 | Part No: Backlit FP24 Troffers & Panels | 13 | 30.0 | 390 | 1,900 |
| D101 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: Backlit FP 14 Troffers & Panels | 2 | 20.0 | 40 | 1,900 |
| D102 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 4 | 149.8 | 599 | Part No: Backlit FP24 Troffers & Panels | 4 | 30.0 | 120 | 1,900 |
| D103/D104 | Troffer/CFL TT5/40.0W/2 Lamp | 12 | 70.4 | 845 | Part No: Backlit FP22 Troffers & Panels | 12 | 25.0 | 300 | 1,900 |
| D105 | Downlight/CFL Pin Base/26.0W/2 Lamp | 2 | 45.8 | 92 | Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit | 2 | 24.0 | 48 | 1,900 |
| D106/D107 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 11 | 74.9 | 824 | Part No: Backlit FP24 Troffers & Panels | 11 | 30.0 | 330 | 2,100 |
| D108/D109 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 5 | 149.8 | 749 | Part No: Backlit FP24 Troffers & Panels | 5 | 30.0 | 150 | 1,900 |
| D110 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 9 | 56.3 | 507 | Part No: PT-LSFA-4F Linear | 9 | 25.0 | 225 | 2,100 |
| D110 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 16 | 74.9 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 16 | 30.0 | 480 | 2,100 |
| D111 | Downlight/CFL Pin Base/26.0W/2 Lamp | 16 | 45.8 | 733 | Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit | 16 | 24.0 | 384 | 2,100 |
| D111 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 12 | 56.3 | 676 | Part No: PT-LSFA-4F Linear | 12 | 25.0 | 300 | 2,100 |
| D111 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 69 | 112.3 | 7,749 | Part No: Backlit FP24 Troffers & Panels | 69 | 30.0 | 2,070 | 2,100 |



| | | | | Total | | | | Total | Burn |
|-------------|-------------------|-----|-------|-------|--------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| D111 | Troffer/T8 | 26 | 169.0 | 4,394 | Part No: Backlit FP24 | 52 | 30.0 | 1,560 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/6 Lamp | | 440.0 | | | | | 100 | 1.000 |
| D112 | lrotter/18 | 6 | 149.8 | 899 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| D113 | Troffer/T8 | 3 | 74.9 | 225 | Part No: Backlit FP24 | 3 | 30.0 | 90 | 2.100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | ŕ |
| | ft/32.0W/2 Lamp | | | | | | | | |
| D114 | Troffer/T8 | 8 | 74.9 | 599 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| D115 | Troffer/T8 | 16 | 7/ 9 | 1 102 | Part No: Backlit EP24 | 16 | 30.0 | /80 | 2 100 |
| DIIJ | Fluorescent/4 | 10 | 74.5 | 1,150 | Troffers & Panels | 10 | 50.0 | 400 | 2,100 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E 2nd Floor | Troffer/T8 | 60 | 74.9 | 4,494 | Part No: Backlit FP24 | 60 | 30.0 | 1,800 | 1,900 |
| Hallways | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E Hallowers | ft/32.0W/2 Lamp | 50 | 74.0 | 4.244 | | | 20.0 | 1 740 | 2 100 |
| E Hallways | Fluorescent/4 | 58 | 74.9 | 4,344 | Troffers & Panels | 58 | 30.0 | 1,740 | 2,100 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E101 | Downlight/CFL Pin | 2 | 45.8 | 92 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 2,100 |
| | Base/26.0W/2 Lamp | | | | Downlight/Retrofit Kit | | | | |
| E102/E103 | Troffer/CFL | 10 | 70.4 | 704 | Part No: Backlit FP22 | 10 | 25.0 | 250 | 1,900 |
| 5105 | TT5/40.0W/2 Lamp | | 56.0 | 5.6 | Troffers & Panels | | | | 1.000 |
| E105 | Irotter/18 | 1 | 56.3 | 56 | Part No: Backlit FP 14 | 1 | 20.0 | 20 | 1,900 |
| | ft/32 0W/2 Lamp | | | | | | | | |
| E106 | Strip/T8 | 2 | 56.3 | 113 | Part No: PT-LSFA-4F | 2 | 25.0 | 50 | 521 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E107 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| F109 | Troffer/T8 | 12 | 149.8 | 1 798 | Part No: Backlit EP24 | 12 | 30.0 | 360 | 1 900 |
| 2105 | Fluorescent/4 | 12 | 145.0 | 1,750 | Troffers & Panels | 12 | 50.0 | 500 | 1,500 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E110 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | 10 | 140.0 | 1 700 | | 10 | 20.0 | 200 | 1.000 |
| EIIZ | Fluorescent/A | 12 | 149.8 | 1,798 | Part No: Backlit FP24 Troffers & Panels | 12 | 30.0 | 360 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E113 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | . = | | | | | |
| E114 | Irotter/18 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| E116 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E117 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | I rotters & Panels | | | | |
| F119 | Troffer/T8 | 4 | 112 २ | 449 | Part No: Backlit EP24 | Δ | 30.0 | 120 | 1 900 |
| | Fluorescent/4 | Ŧ | 112.5 | 175 | Troffers & Panels | | | 120 | 1,500 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E121 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | 11/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|-----------|-------------------|-----|--------|---------|---------------------------|-----|-------|----------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| E122 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E100 | Tt/32.0W/4 Lamp | 0 | 140.9 | 1 100 | Dart No: Dacklit ED24 | 0 | 20.0 | 240 | 1 000 |
| EIZS | Fluorescent/4 | 0 | 149.0 | 1,190 | Troffers & Panels | 0 | 50.0 | 240 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E124 | Troffer/T8 | 8 | 112.3 | 898 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E125 | Troffer/T8 | 1 | 74.9 | 75 | Part No: Backlit FP24 | 1 | 30.0 | 30 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E125 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E127 | Troffor/TR | 11 | 140.9 | 1 6 4 9 | Dart No: Racklit ED24 | 11 | 20.0 | 220 | 1 000 |
| EIZ/ | Fluorescent/A | 11 | 149.0 | 1,040 | Troffers & Panels | | 50.0 | 550 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E130 | Troffer/T8 | 1 | 74.9 | 75 | Part No: Backlit FP24 | 1 | 30.0 | 30 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E130 | Troffer/T8 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E131 | Troffer/CFL | 2 | 70.4 | 141 | Part No: Backlit FP22 | 2 | 25.0 | 50 | 1,900 |
| 5122 | 115/40.0W/2 Lamp | 2 | 1.40.0 | 200 | Iroffers & Panels | 2 | 20.0 | 60 | 1.000 |
| E132 | lrotter/18 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| F133 | Troffer/T8 | 8 | 149.8 | 1 198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1 900 |
| 2100 | Fluorescent/4 | | 11010 | 1,100 | Troffers & Panels | | 0010 | 2.10 | 2,500 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E134 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E135 | Troffer/T8 | 2 | 112.3 | 225 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | TT/32.0W/3 Lamp | 2 | 112.2 | 225 | | 2 | 20.0 | <u> </u> | 1.000 |
| E130 | Fluorescent/4 | 2 | 112.3 | 225 | Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E137/E142 | Downlight/CFL Pin | 6 | 45.8 | 275 | Part No: CAN TRIM 8 WIRED | 6 | 24.0 | 144 | 1,900 |
| | Base/26.0W/2 Lamp | | | | Downlight/Retrofit Kit | | | | |
| E138/E139 | Strip/T8 | 2 | 56.3 | 113 | Part No: PT-LSFA-4F | 2 | 25.0 | 50 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E140 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| F1/1 | Troffer/T8 | 2 | 1123 | 225 | Part No: Backlit EP24 | 2 | 30.0 | 60 | 1 900 |
| L141 | Fluorescent/4 | 2 | 112.5 | 225 | Troffers & Panels | 2 | 50.0 | 00 | 1,900 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E144 | Troffer/T8 | 2 | 74.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E145 | Troffer/T8 | 6 | 112.3 | 674 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| | Fluorescent/4 | | | | Trotters & Panels | | | | |
| 5146 | TT/32.0W/3 Lamp | 2 | 74.0 | 150 | Devit Nex Devilit 5D2.4 | 2 | 20.0 | 60 | 1.000 |
| E140 | Fluorescent/4 | 2 | /4.9 | 120 | Troffers & Panels | 2 | 30.0 | 60 | T'A00 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| | , , | | 1 | | | 1 | | | |



| SpaceExisting FixtureQtyWattsWattsProposed SolutionQtyWattsWattsE147Troffer/T82112.3225Part No: Backlit FP24230.060Eluorescent/4Troffers & PanelsTroffers & PanelsTroffers & PanelsTroffers & Panels | Hours 1,900 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| E147 Troffer/T8 2 112.3 225 Part No: Backlit FP24 2 30.0 60 Fluorescent/4 Troffers & Panels Troffers & | 1,900 |
| Fluorescent/4 Troffers & Panels | |
| ft/22 OW/2 Lamp | |
| F148 Troffer/T8 2 112.3 225 Part No: Backlit FP24 2 30.0 60 | 1 900 |
| Fluorescent/4 Troffers & Panels | 1,500 |
| ft/32.0W/3 Lamp | |
| E149 Troffer/T8 3 112.3 337 Part No: Backlit FP24 3 30.0 90 | 1,900 |
| fluorescent/4 Troiters & Panels | |
| E150/E154 Downlight/CFL Pin 6 45.8 275 Part No: CAN TRIM 8 WIRED 6 24.0 144 | 1,900 |
| Base/26.0W/2 Lamp Downlight/Retrofit Kit | , |
| E152/E153 Troffer/CFL 4 70.4 282 Part No: Backlit FP22 4 25.0 100 | 1,900 |
| I15/40.0W/2 Lamp Iroffers & Panels F156 Troffer/TR 8 140.8 1.108 Part No: Packlit FD24 8 20.0 240 | 1 000 |
| Fluorescent/4 | 1,900 |
| ft/32.0W/4 Lamp | |
| E157 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 | 1,900 |
| Fluorescent/4 Troffers & Panels | |
| F158 Troffer/T8 8 149.8 1 198 Part No: Backlit EP24 8 30.0 240 | 1 900 |
| Fluorescent/4 Troffers & Panels | 1,500 |
| ft/32.0W/4 Lamp | |
| E159 Troffer/T8 16 149.8 2,397 Part No: Backlit FP24 16 30.0 480 | 1,900 |
| Fluorescent/4 Trotters & Panels | |
| E161 Troffer/T8 16 149.8 2,397 Part No: Backlit FP24 16 30.0 480 | 1,900 |
| Fluorescent/4 Troffers & Panels | , |
| ft/32.0W/4 Lamp | |
| E162 Troffer/T8 1 74.9 75 Part No: Backlit FP24 1 30.0 30 | 1,900 |
| ft/32.0W/2 Lamp | |
| E162 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 | 1,900 |
| Fluorescent/4 Troffers & Panels | |
| ft/32.0W/4 Lamp 200 140.0 2000 Dest No. Dest No | 1 000 |
| E103 Iroller/18 20 149.8 2,996 Part No: Backlit FP24 20 30.0 600 Eluorescent/4 20 30.0 600 | 1,900 |
| ft/32.0W/4 Lamp | |
| E164 Troffer/T8 24 149.8 3,595 Part No: Backlit FP24 24 30.0 720 | 1,900 |
| Fluorescent/4 Troffers & Panels | |
| F165 Troffer/T8 2 74.9 150 Part No: Backlit EP24 2 30.0 60 | 1 900 |
| Fluorescent/4 Troffers & Panels | 1,500 |
| ft/32.0W/2 Lamp | |
| E166 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 | 1,900 |
| Fluorescent/4 Trotters & Panels | |
| E167 Troffer/T8 6 112.3 674 Part No: Backlit FP24 6 30.0 180 | 1,900 |
| Fluorescent/4 Troffers & Panels | |
| ft/32.0W/3 Lamp C 110.0 C 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 < | 1.000 |
| E168 rotter/18 6 112.3 6/4 Part No: Backlit FP24 6 30.0 180 | 1,900 |
| ft/32.0W/3 Lamp | |
| E169/E171 Troffer/CFL 6 70.4 422 Part No: Backlit FP22 6 25.0 150 | 1,900 |
| TT5/40.0W/2 Lamp Troffers & Panels | 501 |
| E1/U I rotter/18 1 56.3 56 Part No: Backlit FP 14 1 20.0 20 Eluorescent/4 I 56.3 56 Part No: Backlit FP 14 1 20.0 20 | 521 |
| ft/32.0W/2 Lamp | |
| E172 Downlight/CFL Pin 2 45.8 92 Part No: CAN TRIM 8 WIRED 2 24.0 48 | 1,900 |
| Base/26.0W/2 Lamp Downlight/Retrofit Kit | |
| E1/3 I rotter/18 24 149.8 3,595 Part No: Backlit FP24 24 30.0 720 Eluorescent/4 Troffers & Panels | 1,900 |
| ft/32.0W/4 Lamp | |



| | | | | Total | | | | Total | Burn |
|------------|------------------|-----|--------|---------|------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| E174 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | 4.6 | 4.40.0 | 0.007 | | 10 | | 40.0 | 1.000 |
| E1/5 | lroffer/18 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| F176 | Troffer/T8 | 16 | 149.8 | 2.397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1.900 |
| | Fluorescent/4 | | | _, | Troffers & Panels | | | | _/ |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E201 | Strip/T8 | 13 | 56.3 | 732 | Part No: PT-LSFA-4F | 13 | 25.0 | 325 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| 5202 | ft/32.0W/2 Lamp | | 70.4 | 252 | | | 25.0 | 125 | 1.000 |
| E202 | TT5/40.0W/2 Lamp | 5 | 70.4 | 352 | Part No: Backlit FP22 | 5 | 25.0 | 125 | 1,900 |
| F203 | Strip/T8 | 3 | 56.3 | 169 | Part No: PT-I SEA-4E | 3 | 25.0 | 75 | 1 900 |
| 2200 | Fluorescent/4 | | 00.0 | 105 | Linear | | 2010 | , 0 | 2,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E204 | Troffer/CFL | 7 | 70.4 | 493 | Part No: Backlit FP22 | 7 | 25.0 | 175 | 1,900 |
| | TT5/40.0W/2 Lamp | | | | Troffers & Panels | | | | |
| E205 | Troffer/T8 | 7 | 149.8 | 1,049 | Part No: Backlit FP24 | 7 | 30.0 | 210 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E206/E207/ | Troffer/T8 | 6 | 112.3 | 674 | Part No: Backlit EP24 | 6 | 30.0 | 180 | 1 900 |
| F208 | Fluorescent/4 | | 112.5 | 0/4 | Troffers & Panels | 0 | 50.0 | 100 | 1,500 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E209 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E210 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E212 | Troffer/T8 | 10 | 112.3 | 1 1 2 3 | Part No: Backlit EP24 | 10 | 30.0 | 300 | 1 900 |
| | Fluorescent/4 | 10 | 112.5 | 1,123 | Troffers & Panels | 10 | 50.0 | 500 | 1,500 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E212 | Vapor Tight/T8 | 1 | 56.3 | 56 | Part No: PT-VT1-4F-45W | 1 | 45.0 | 45 | 1,900 |
| | Fluorescent/4 | | | | Vapor Tight | | | | |
| 5040/5044/ | ft/32.0W/2 Lamp | | 442.2 | | | | | - 10 | 1.000 |
| E213/E214/ | Iroffer/18 | 8 | 112.3 | 898 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| EZIS/EZIO | ft/32 0W/3 Lamp | | | | Troffers & Parleis | | | | |
| F219 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | _/ |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E220 | Troffer/T8 | 12 | 112.3 | 1,348 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| F221 | ft/32.0W/3 Lamp | 0 | 112.2 | 000 | Dort No: Dooklit ED24 | 0 | 20.0 | 240 | 1 000 |
| EZZI | Fluorescent/A | 8 | 112.3 | 898 | Troffers & Panels | 8 | 30.0 | 240 | 1,900 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E222 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E223 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| F224 | Troffer/T8 | 12 | 149.8 | 1 792 | Part No: Backlit EP24 | 12 | 30.0 | 360 | 1 900 |
| LZZ4 | Fluorescent/4 | 12 | 143.0 | 1,130 | Troffers & Panels | 12 | 30.0 | 300 | 1,300 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E226 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |


| Space Existing Fixture Opt Watts Watts Watts Proposed Solution Opt Watts Watts Hours F227 Financeserv/A Internet Michael 12 12 12 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 <th></th> <th></th> <th></th> <th></th> <th>Total</th> <th></th> <th></th> <th></th> <th>Total</th> <th>Burn</th> | | | | | Total | | | | Total | Burn |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|-----|-------|--------|---------------------------|-----|-------|-------|-------|
| E227 Troffer/T8 1.2 1.49.8 1.798 Part No Backin PP24 1.2 30.0 360 1.900 E228 Troffer/T8 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F233 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F234 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F234 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP2 | Space | Existing Fixture | Qtv | Watts | Watts | Proposed Solution | Qtv | Watts | Watts | Hours |
| Hoursecent/ Interfer/IA Function Function Function Function Function E228 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/4.9.8 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E229 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/7.9 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E230 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/7.9 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E231 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/7.9 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E233 Troffer/IA HURSECON/L (Y22 OW/L Lump) 1/2 1/4.8 1.79 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E235 Troffer/IA HURSECON/L (Y22 OW/L Lump) 1/2 1/4.8 1.706 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/0.0 1.000 | E227 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Interaction Interaction <thinteraction< th=""> <thinteraction< th=""></thinteraction<></thinteraction<> | | , Fluorescent/4 | | | | Troffers & Panels | | | | , |
| E228 Troffer/T8 1/2 1/49.8 1/78 Part No: BackIt FP24 1/2 90.0 800 1/800 E209 Troffer/T8 Floorescent/4 1/2 1/2 1/2 30.0 300 1/800 E209 Troffer/T8 Floorescent/4 1/2 1/2 30.0 300 1/800 E300 Troffer/T8 Floorescent/4 1/2 1/2 1/2 30.0 300 1/800 E331 Troffer/T8 Floorescent/4 1/2 1/2 1/2 1/2 30.0 300 1/200 E333 Troffer/T8 Floorescent/4 1/2 1/2 1/2 1/2 30.0 300 1/200 E334 Troffer/T8 Floorescent/4 1/2 1/2 1/2 30.0 300 1/200 E336 Troffer/T8 Floorescent/4 1/2 1/2 1/2 30.0 300 1/200 E330 Troffer/T8 Floorescent/4 1/2 1/2 1/2 | | ft/32.0W/4 Lamp | | | | | | | | |
| Hourescent/4 (TV32.0W/41 amp) Image of the second sec | E228 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| E229 Index.ent/4 Index.ent/4 <thindex.ent 4<="" th=""> <thin< td=""><td></td><td>Fluorescent/4</td><td></td><td></td><td></td><td>Troffers & Panels</td><td></td><td></td><td></td><td></td></thin<></thindex.ent> | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E229 Troffer/T8 12 249.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 E230 Troffer/T8 12 12 12 12 12 30.0 360 1,900 E231 Florescent/4 12 12 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 E231 Florescent/4 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 F333 Troffer/T8 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 F333 Troffer/T8 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 F335 Troffer/T8 12 149.8 1,988 Part No: Backli FP24 12 30.0 360 1,900 F335 Troffer/T8 12 149.8 1,798 Part No: Backli FP24 12 30.0 | | ft/32.0W/4 Lamp | | | | | | | | |
| Fundescentify Profession Fund F | E229 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Losz over lange Losz over | | Fluorescent/4 | | | | I rotters & Panels | | | | |
| L3.00 Hole H7A (F23.0W/A Lamp (F33.0W/A Lamp) F3.0 F3.00 | E220 | Troffor/T9 | 10 | 1/0.9 | 1 709 | Part No: Backlit ED24 | 12 | 20.0 | 260 | 1 000 |
| tr/22_0W/14_mp tools tools <tht th="" tools<=""> tools</tht> | L230 | Fluorescent/4 | 12 | 149.0 | 1,750 | Troffers & Panels | 12 | 50.0 | 300 | 1,900 |
| E231 Indfer/18 (H)2.0W/41 amp (H)2.0W/41 amp 12 149.8 1.798 Part No. Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E233 Troffer/18 (H)0rescent/4 (H/2.0W/41 amp 12 149.8 1.798 Part No. Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E234 Troffer/18 (H)0rescent/4 (H/2.0W/41 amp 12 149.8 1.798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E235 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E236 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E236 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E243 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 149.8 1,988 Part No: Backlit FP24 Troffers & Panels <td< td=""><td></td><td>ft/32.0W/4 Lamp</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | ft/32.0W/4 Lamp | | | | | | | | |
| Huorssent/4 (32.00/4 Lamp) I.vi Troffer 78 (742.00/4 Lamp) 12 3.0.0 3.60 1.900 E233 Troffer/78 (Hoorssent/4 (f22.00/4 Lamp) 12 149.8 1.798 Part No. Backlit FP24 Troffer 78 Panels 12 3.0.0 3.60 1.900 E234 Troffer/78 (Hoorssent/4 (f22.00/4 Lamp) 12 149.8 1.98 Part No. Backlit FP24 Troffer 8 Panels 8 3.0.0 2.40 1.900 E235 Troffer/78 (Hoorssent/4 (f22.00/4 Lamp) 12 149.8 1.98 Part No. Backlit FP24 Troffer 8 Panels 8 3.0.0 2.40 1.900 E236 Troffer/78 (Hoorssent/4 (f23.00/4 Lamp) 12 149.8 1.798 Part No. Backlit FP24 Troffer 8 Panels 12 3.0.0 3.60 1.900 E237 Troffer/78 (Hoorssent/4 (f23.00/4 Lamp) 12 149.8 1.978 Part No. Backlit FP24 12 3.0.0 3.60 1.900 E240 Troffer/78 (Hoorssent/4 (f23.00/4 Lamp) 149.8 1.798 Part No. Backlit FP24 12 3.0.0 2.40 1.900 E244 | E231 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Intraction Intract | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E233 Profer/78 (r/32,0W/4 Lamp) 12 12 30.0 360 1,900 E234 Profer/78 (r/32,0W/4 Lamp) 12 12 30.0 360 1,900 E235 Profer/78 (r/32,0W/4 Lamp) 12 149.8 1,98 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E235 Profer/78 (r/32,0W/4 Lamp) 12 149.8 1,98 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E236 Profer/78 (r/32,0W/4 Lamp) 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E237 Proffer/78 (r/32,0W/4 Lamp) 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E240 Proffer/78 (r/32,0W/4 Lamp) 12 149.8 1,988 Part No: Backlit FP24 Troffers & Panels 12 30.0 240 1,900 E241 Proffer/78 (r/32,0W/4 Lamp) 8 149.8 1,988 Part No: Backlit FP24 Troffers & Panels </td <td></td> <td>ft/32.0W/4 Lamp</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | ft/32.0W/4 Lamp | | | | | | | | |
| Horescent/4 (732.0W/4 tamp) Image for the form of the second form of | E233 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Index. Work Lamp Index Index <thindex< th=""> Index Index</thindex<> | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| L234 Indiary is fully and fy32_0W/4 Lamp 1/2 1/96 Part No: Backlit FP24 Troffers & Panels 1/2 30.0 300 1/30 E235 Troffer/T8 Fluorescent/4 fy32_0W/4 Lamp 8 1/98 1/98 Part No: Backlit FP24 Troffers & Panels 12 30.0 240 1/900 E236 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1/98 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E237 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 240 1,900 E240 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E244 Torffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 <td>5224</td> <td>Tt/32.0W/4 Lamp</td> <td>10</td> <td>140.0</td> <td>1 700</td> <td>Dort No. Dooldit ED24</td> <td>10</td> <td>20.0</td> <td>200</td> <td>1.000</td> | 5224 | Tt/32.0W/4 Lamp | 10 | 140.0 | 1 700 | Dort No. Dooldit ED24 | 10 | 20.0 | 200 | 1.000 |
| Hole and the form of the section of the sectin of the section of the section of the section of the sect | E234 | Fluorescent/A | 12 | 149.8 | 1,798 | Troffers & Panels | 12 | 30.0 | 300 | 1,900 |
| E235 Troffer/T8 Fluorescent/4 (r/32.0W/4 lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E236 Troffer/T8 Fluorescent/4 (r/32.0W/4 lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E237 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E244 Droffer/T8 Fluorescent/4 fr/32.0W/4 lamp 8 149.8 1,918 Part No: Backlit FP24 Troffers & Pan | | ft/32 0W/4 Lamp | | | | | | | | |
| Fluorescent/4 (r/32.0W/1 tamp Indepart of the standard standar | E235 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| ft/32_0W/4 Lamp image image image image image image image E236 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 12 30.0 360 1,900 E237 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,900 E240 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 149.8 1,998 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 8 149.8 1,918 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 8 1,918 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/16.0W/1 Lamp 8 149.8 1,918 Part No: Backlit FP24 Troffer K Panels 28 </td <td></td> <td>Fluorescent/4</td> <td></td> <td></td> <td></td> <td>Troffers & Panels</td> <td></td> <td></td> <td></td> <td></td> | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E236 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,909 E237 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,998 Part No: Backlit FP24 Troffer & Panels 12 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 8 1,918 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 8 1,928 Part No: Backlit FP24 Troffer & Panels 8 30.0 840 | | ft/32.0W/4 Lamp | | | | | | | | |
| Fluorescent/4 fy32.0W/4 Lamp 12 149.8 1.788 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E237 Troffer/T8 Fluorescent/4 fy23.0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 1,498 Part No: Backlit FP24 Troffers & Panels 8 1.00 240 1,900 E244 Downlight/CP17 Pin Base/26.0W/1 Lamp 8 2.2.9 183 Part No: Backlit FP24 Troffers & Panels 8 3.0.0 8 | E236 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Interpret in the second seco | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E237 Iroffer/18 12 149.8 1,98 Part No: Backlit FP24 12 30.0 360 1,900 E238 Troffer/T8 12 149.8 1,798 Part No: Backlit FP24 12 30.0 360 1,900 E240 Troffer/T8 8 149.8 1,798 Part No: Backlit FP24 12 30.0 240 1,900 E240 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E241 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E244 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E244 Downlight/CFLPin 8 22.9 183 Part No: Backlit FP24 8 10.0 104 1,900 E244 Downlight/CFLPin 8 22.9 183 | | ft/32.0W/4 Lamp | | | | | | | | |
| Inducts of Priors of Parties Inducts of Parties Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 12 149.8 1,988 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E244 Torffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 22.9 183 Part No: CAN TRIM 6 WRED 8 10.0 140 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 28 149.8 999 Part No: Backlit FP24 Troffers & Panels 16 3.0.0 180 | E237 | Trotter/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| E238 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer/S & Panels 12 30.0 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer/S & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 1,498 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 1,498 Part No: Backlit FP24 Troffer & Panels 8 13.0 104 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: Backlit FP24 Troffer & Panels 8 13.0 104 1,900 E244 Troffer/T8 Fluorescent/4 fr/03.0W/1 Lamp 28 149.8 8/99 Part No: Backlit FP24 Troffer & Panels 16 30.0 180 | | ft/32 0W//4 Jamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/4 Lamp FL | F238 | Troffer/T8 | 12 | 149.8 | 1 798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1 900 |
| index index </td <td>2230</td> <td>Fluorescent/4</td> <td>12</td> <td>115.0</td> <td>1,750</td> <td>Troffers & Panels</td> <td>12</td> <td>50.0</td> <td>500</td> <td>1,500</td> | 2230 | Fluorescent/4 | 12 | 115.0 | 1,750 | Troffers & Panels | 12 | 50.0 | 500 | 1,500 |
| E240 Troffer/T8 Fluorescent/4 (r/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 (r/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 13.0 104 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 28 149.8 29.9 Part No: Backlit FP24 Troffer & Panels 28 30.0 180 1,900 E245 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 29.9 Part No: Backlit FP24 Troffer & Panels | | ft/32.0W/4 Lamp | | | | | | | | |
| Inducescent/4 fr/32.0W/4 Lamp In | E240 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| Image: Figure scent/4 fr/32.0W/4 Lamp | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E241 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 Troffer/T8 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 A 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 8 20 149.8 1,198 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 30.0 840 1,900 E244 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 8 9.9 Part No: Backlit FP24 Troffer S& Panels 28 30.0 840 1,900 E244 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffer S& Panels 8 30.0 180 1,900 E247 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 4 149.8 1,947 Part No: Backlit FP24 Troffer S& | | ft/32.0W/4 Lamp | | | | | | | | |
| Early florescent/4 ft/32.0W/4 Lamp R 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: CAN TRIM 6 WIRED 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/EG.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED 8 1.0 1.0 1.00 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 28 149.8 149.8 Part No: Backlit FP24 Troffer & Panels 28 30.0 840 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 26 149.8 899 Part No: Backlit FP24 Troffer & Panels 28 30.0 180 1,900 E247 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 599 Part No: Backlit FP24 Troffer & Panels 4 30.0 120 1,900 E248 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 149.8 1,947 Part No: Backlit FP24 Troffer & Panels 13 30.0 30.0 1,900 | E241 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| E242 Troffer/T8 N 149.8 1,198 Part No: Backlit FP24 S S 30.0 240 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 1.00 240 1,900 E244 Troffer/T8 Base/26.0W/1 Lamp 28 149.8 4,194 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 30.0 840 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 28 149.8 4,194 Part No: Backlit FP24 Troffers & Panels 28 30.0 840 1,900 E246 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffers & Panels 28 30.0 840 1,900 E247 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 599 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E248 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 1,947 Part No: Backlit FP24 Troffers & Panels 13 30.0 30.0 300 1,900 E249 Troff | | Fluorescent/4 | | | | Iroffers & Panels | | | | |
| L242 Indicipited Indicipited <thindicipited< th=""> <t< td=""><td>E2/12</td><td>Troffer/T8</td><td>Q</td><td>1/0.8</td><td>1 108</td><td>Part No: Backlit EP24</td><td>Q</td><td>30.0</td><td>240</td><td>1 900</td></t<></thindicipited<> | E2/12 | Troffer/T8 | Q | 1/0.8 | 1 108 | Part No: Backlit EP24 | Q | 30.0 | 240 | 1 900 |
| ft/32.0W/4 Lamp in | | Fluorescent/4 | 0 | 145.0 | 1,150 | Troffers & Panels | 0 | 50.0 | 240 | 1,500 |
| E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 13.0 104 1,900 E244 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 28 149.8 4,194 Part No: Backlit FP24 Troffers & Panels 28 30.0 840 1,900 E246 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E247 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E247 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 4 149.8 599 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E248 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 13 149.8 1,947 Part No: Backlit FP24 Troffers & Panels 13 30.0 390 1,900 E249 Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp 4 112.3 449 Part No: Backlit FP24 Troffers & Panels 13 30.0 30.0 120 1,900 1,900 | | ft/32.0W/4 Lamp | | | | | | | | |
| Base/26.0W/1 Lamp Image: Constraint of the image: Constr | E244 | Downlight/CFL Pin | 8 | 22.9 | 183 | Part No: CAN TRIM 6 WIRED | 8 | 13.0 | 104 | 1,900 |
| E244 Troffer/T8 28 149.8 4,194 Part No: Backlit FP24 28 30.0 840 1,900 E246 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 6 30.0 120 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 4 149.8 1,947 Part No: Backlit FP24 13 30.0 30.0 390 1,900 E248 Troffer/T8 4 112.3 449 Part No: Backlit FP24 13 30.0 120 1,900 E249 Troffer/T8 Fluorescent/4 4 112.3 </td <td></td> <td>Base/26.0W/1 Lamp</td> <td></td> <td></td> <td></td> <td>Downlight/Retrofit Kit</td> <td></td> <td></td> <td></td> <td></td> | | Base/26.0W/1 Lamp | | | | Downlight/Retrofit Kit | | | | |
| Fluorescent/4 ft/32.0W/4 Lamp Image: second se | E244 | Troffer/T8 | 28 | 149.8 | 4,194 | Part No: Backlit FP24 | 28 | 30.0 | 840 | 1,900 |
| E246 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 4 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E249 Troffer/T8 13 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E250 Troffer/T8 102 149.8 15,280 Part No: Bac | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E240 Iffolier/18 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 13 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E248 Troffer/T8 13 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 13 30.0 30.0 120 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E250 Troffer/T8 102 149.8 15,280 | E246 | π/32.0W/4 Lamp | | 140.0 | 000 | Dort No. Dooklit ED24 | 6 | 20.0 | 100 | 1.000 |
| IndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenc | E246 | Fluoroscont/4 | 6 | 149.8 | 899 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| E247Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp4149.8599 fluorescent/4 ft/32.0W/4 LampPart No: Backlit FP24 Troffers & Panels430.01201,900E248Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp13149.81,947Part No: Backlit FP24 Troffers & Panels1330.03901,900E249Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E249Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280Part No: Backlit FP24 Troffers & Panels10230.03,0601,900 | | ft/32 0W/4 Lamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/4 LampImage: Second | E247 | Troffer/T8 | 4 | 149.8 | 599 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1.900 |
| ft/32.0W/4 LampindindindindindindindindE248Troffer/T81313149.81,947Part No: Backlit FP24 Troffers & Panels1330.03901,900Fluorescent/4 ft/32.0W/4 Lamp1112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E249Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280Part No: Backlit FP24 Troffers & Panels10230.03,0601,900 | | Fluorescent/4 | | | | Troffers & Panels | | - | | , - |
| E248Troffer/T813149.81,947Part No: Backlit FP24 Troffers & Panels1330.03901,900Fluorescent/4 ft/32.0W/4 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E249Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280Part No: Backlit FP24 Troffers & Panels10230.03,0601,900 | | ft/32.0W/4 Lamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/4 LampFluorescent/4 4InferseTroffersePanelsFluorescent/4 TrofferseAAA49 APart No: Backlit FP24 TrofferseAAA00 AA120 AA900 AE250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280 Troffers & PanelsPart No: Backlit FP24 Troffers & Panels10230.03,0601,900 | E248 | Troffer/T8 | 13 | 149.8 | 1,947 | Part No: Backlit FP24 | 13 | 30.0 | 390 | 1,900 |
| It/32.0W/4 LampIt/32.0W/4 Lam | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E249 ITOTIEr/18 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 Fluorescent/4 ft/32.0W/3 Lamp 102 149.8 15,280 Part No: Backlit FP24 102 30.0 120 1,900 E250 Troffer/T8 102 149.8 15,280 Part No: Backlit FP24 102 30.0 3,060 1,900 Fluorescent/4 ft/32.0W/4 Lamp 102 149.8 15,280 Part No: Backlit FP24 102 30.0 3,060 1,900 | 5242 | tt/32.0W/4 Lamp | | 110 - | | D IN D IN SOOT | | 20.5 | 105 | 1.005 |
| Inderestent/4 ft/32.0W/3 LampInderestent/4 ft/32.0W/3 LampInderestent/4 ft/32.0W/4 LampInderestent/4< | E249 | Troffer/18 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| E250 Troffer/T8 102 149.8 15,280 Part No: Backlit FP24 102 30.0 3,060 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1, | | ft/32 0W/3 Lamp | | | | noners & Pariers | | | | |
| Fluorescent/4 Troffers & Panels Total (1,500) 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 | E250 | Troffer/T8 | 102 | 149.8 | 15 280 | Part No: Backlit FP24 | 102 | 30.0 | 3.060 | 1 900 |
| ft/32.0W/4 Lamp | 2230 | Fluorescent/4 | 102 | 175.0 | 10,200 | Troffers & Panels | 102 | 50.0 | 3,000 | 1,500 |
| | | , ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|-----------|------------------------------------------------|-----|--------|--------|--------------------------------------------|-----|-------------|--------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| E251 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 3 | 112.3 | 337 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| E252 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 8 | 149.8 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 8 | 30.0 | 240 | 1,900 |
| E253 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| E253 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 8 | 149.8 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 8 | 30.0 | 240 | 1,900 |
| E254 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| E255/E256 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-LSFA-4F Linear | 2 | 25.0 | 50 | 1,900 |
| E257 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 5 | 112.3 | 562 | Part No: Backlit FP24 Troffers & Panels | 5 | 30.0 | 150 | 1,900 |
| E260 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 3 | 149.8 | 449 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| E261 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 56.3 | 56 | Part No: PT-LSFA-4F Linear | 1 | 25.0 | 25 | 1,900 |
| Gym | Highbay/Metal Halide/400.0W/1 Lamp | 73 | 460.0 | 33,580 | Part No: UFO 150 Highbays & Lowbays | 73 | 150.0 | 10,950 | 1,900 |
| Gym | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 14 | 56.3 | 788 | Part No: PT-LSFA-8F Linear | 14 | 55.0 | 770 | 1,900 |
| Gym | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| Total | | | 26,459 | 286,60 | | | 7,561. 0 | 79,485 | |



516 N. 8th St., Unit D De Pere WI 54115 www.ncledlighting.com

Upgrade Analysis

LIGHTING RETROFIT PROPOSAL

Prepared for Jake Leiterman Supervisor of Buildings & Grounds

Site Information

| Name: | Antigo High School |
|-------|--------------------|
| | |

Address: 1900 10th Ave Antigo WI 54409



NCL

January 31, 2022

Proposal Expires

Jay Polena Vice President 920.655.2468 jay@ncledlighting.com



Executive Summary

| Project Costs | | Financial Metrics | |
|----------------------|-----------|-------------------------|-----------|
| Total Project Cost | \$350,649 | Payback Period (yrs) | 6.17 |
| Sales Tax | \$0 | Avg. Annual Return | 16% |
| Incentives/Rebates | \$32,740 | 10 Yr Operating Savings | \$495,586 |
| Turnkey Project Cost | \$317,909 | Net Present Value | \$57,984 |

Cost of Waiting

| Postpone for one month | \$4,130 | Energy Rate (\$/kWh) | 0.1006 |
|-------------------------|----------|------------------------------|--------|
| Postpone for six months | \$24,779 | Annual Utility Rate Increase | 0.00% |
| Postpone for one year | \$49,559 | Discount Rate | 6.00% |

Usage (kWh)





Assumptions

Maintenance Cost









Proposed Savings



Impact of New Lighting

Aggregate Operating Savings

| Energy Reduction | 72% | Saving Area | Year 1 | Year 5 | Year 10 |
|---------------------------------|------|-------------|----------|-----------|-----------|
| Avg. Annual Maintenance Savings | 100% | Energy | \$44,443 | \$222,215 | \$444,429 |
| Avg. Annual Operating Savings | 74% | Maintenance | \$646 | \$23,282 | \$51,157 |
| | | Total | \$45.089 | \$245,497 | \$495.586 |

Aggregate Cash Flow Over Ten Years



Itemized Cash Flow

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Project Cost | \$(350,649) | - | - | - | - | - | - | - | - | - |
| Rebates | \$32,740 | - | - | - | - | - | - | - | - | - |
| Energy Savings | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 |
| Maintenance Savings | \$646 | \$3,914 | \$11,369 | \$11 | \$7,342 | \$24,123 | \$1,915 | \$572 | \$8 | \$1,256 |
| Net Cash Flow | \$(272,820) | \$48,357 | \$55,812 | \$44,454 | \$51,785 | \$68,566 | \$46,358 | \$45,015 | \$44,451 | \$45,699 |



Cash Flow

We understand that finalizing a project like this often takes time. However, each day you delay your upgrade, you are missing out on the opportunity to reduce your operating expenses. As shown below, the lost opportunity continues to compound over time.

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | Total |
|---------------------|-------------|-------------|-------------|-------------|------------|-----------|----------|----------|-----------|-----------|-------------|
| Project Cost | \$(350,649) | - | - | - | - | - | - | - | - | - | \$(350,649) |
| Rebates | \$32,740 | - | - | - | - | - | - | - | - | - | \$32,740 |
| Energy Savings | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$44,443 | \$444,429 |
| Maintenance Savings | \$646 | \$3,914 | \$11,369 | \$11 | \$7,342 | \$24,123 | \$1,915 | \$572 | \$8 | \$1,256 | \$51,157 |
| Net Cash Flow | \$(272,820) | \$48,357 | \$55,812 | \$44,454 | \$51,785 | \$68,566 | \$46,358 | \$45,015 | \$44,451 | \$45,699 | \$177,677 |
| Cum Cash Flow | \$(272,820) | \$(224,463) | \$(168,651) | \$(124,197) | \$(72,412) | \$(3,846) | \$42,512 | \$87,527 | \$131,978 | \$177,677 | \$177,677 |

10 Year Cash Flow Analysis







Cost of Waiting

The cost of waiting shows the amount of cash your company will be losing if you delay the proposed lighting upgrade.



Cost of waiting includes energy savings and maintenance savings applied as an average annual amount over a 10 year analysis period



Energy Usage

The following set of information evaluates your current energy usages and costs and compares that to the projected energy usage and costs your facility will see after the proposed lighting upgrade.

Annual Energy Usage

| Current Usage | ge Projected | | Current | Projected | Financial | Percent |
|---------------|-----------------------|-----|----------|-----------|-----------|---------|
| (kWh) | Usage (kWh) Reduction | | Cost | Cost | Savings | Saved |
| 611,998 | 170,219 | 72% | \$61,567 | \$17,124 | \$44,443 | 72% |

1. Energy cost = \$0.1006/kWh; Annual energy cost escalation = 0.00%

2. Energy costs are averaged over 10 year analysis period

3. Projected Usage (kWh) includes savings from controls if applicable

Annual Energy Usage Reduction

| Current Usage (kWh) | Projected Usage (kWh) | Reduction (kWh) | Reduction |
|---------------------|-----------------------|-----------------|-----------|
| 611,998 | 170,219 | 441,779 | 72% |



Energy Comparison

- 1. Energy Cost = \$0.1006/kWh; Annual energy cost escalation = 0.00%
- 2. Energy costs are averaged over 10 year analysis period



Watts Summary

| Existing Watts | Proposed Watts | Reduced Watts | Reduction |
|----------------|----------------|---------------|-----------|
| 301,079 | 83,525 | 217,554 | 72% |

The calculations in this table take into account the existing fixtures that are being replaced, upgraded, and/or have new lighting controls being proposed for them

Lighting Wattage Comparison

Exterior

| | | | | Total | | | | Total | Burn |
|-----------|--------------------|-----|-------|--------|------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| Recessed | Area Light/Mercury | 18 | 454.0 | 8,172 | Part No: SB 150 | 18 | 150.0 | 2,700 | 4,380 |
| Cans | Vapor/400.0W/1 | | | | Area & Site | | | | |
| | Lamp | | | | | | | | |
| Recessed | Downlight/Metal | 13 | 210.0 | 2,730 | Part No: CC30 | 13 | 30.0 | 390 | 4,380 |
| Cans | Halide/175.0W/1 | | | | Garage & Canopy/Retrofit Kit | | | | |
| | Lamp | | | | | | | | |
| Wallpacks | Wallpack/High | 19 | 188.0 | 3,572 | Part No: STD WP 50 | 19 | 50.0 | 950 | 4,380 |
| | Pressure | | | | Wall Mount | | | | |
| | Sodium/150.0W/1 | | | | | | | | |
| | Lamp | | | | | | | | |
| Total | | | 852.0 | 14,474 | | | 230.0 | 4,040 | |

Interior

| | | | | Total | | | | Total | Burn |
|-----------|--------------------|-----|-------|-------|---------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A Hallway | Troffer/T8 | 27 | 74.9 | 2,022 | Part No: Backlit FP24 | 27 | 30.0 | 810 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A101/A102 | Downlight/Incandes | 2 | 150.0 | 300 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 521 |
| | cent/150.0W/1 | | | | Downlight/Retrofit Kit | | | | |
| | Lamp | | | | | | | | |
| A103 | Strip/T12 | 20 | 75.0 | 1,500 | Part No: PT-LSFA-4F | 20 | 25.0 | 500 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/40.0W/2 Lamp | | 75.0 | 1.500 | D + N - DT + 05 4 45 | | 25.0 | 500 | 4.000 |
| A104 | Strip/112 | 20 | /5.0 | 1,500 | Part No: PI-LSFA-4F | 20 | 25.0 | 500 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| A105 | Traffar/To | 2 | 74.0 | 150 | | 2 | 20.0 | 60 | 1.000 |
| A105 | Irotter/18 | 2 | /4.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | fluorescent/4 | | | | Troffers & Panels | | | | |
| A106 | Troffor/To | 2 | 140.9 | 200 | Part No: Packlit ED24 | 2 | 20.0 | 60 | 1 000 |
| AIUO | Eluoroscont/4 | | 149.0 | 500 | Troffors & Papels | | 50.0 | 00 | 1,900 |
| | ft/32 0W/4 lamp | | | | | | | | |
| A108 | Troffer/T8 | 1 | 74.9 | 75 | Part No: Backlit EP24 | 1 | 30.0 | 30 | 521 |
| A100 | Fluorescent/4 | - | 74.5 | ,5 | Troffers & Panels | 1 | 50.0 | 50 | 521 |
| | ft/32 0W/2 Lamp | | | | | | | | |
| A109 | Strip/T12 | 31 | 75.0 | 2.325 | Part No: PT-LSFA-4F | 31 | 25.0 | 775 | 1.900 |
| | Fluorescent/4 | | | , | Linear | | | | , |
| | ft/40.0W/2 Lamp | | | | | | | | |
| A110 | Troffer/T8 | 11 | 149.8 | 1,648 | Part No: Backlit FP24 | 11 | 30.0 | 330 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|---------|----------------------------------|-----|-------|-------|---------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A111 | Strip/T8 | 2 | 56.3 | 113 | Part No: PT-LSFA-4F | 2 | 25.0 | 50 | 1,900 |
| | Fluorescent/4 ft/32.0W/2 Lamp | | | | Linear | | | | |
| A112 | Wrap/T8 | 4 | 56.3 | 225 | Part No: PT-WAFA-4F91-3CCT | 4 | 30.0 | 120 | 2,100 |
| Hallway | Fluorescent/4 ft/32.0W/2 Lamp | | | | Wrap | | | | |
| A113 | Strip/T12 | 32 | 75.0 | 2,400 | Part No: PT-LSFA-4F | 32 | 25.0 | 800 | 1,900 |
| | fluorescent/4 ft/40.0W/2 Lamp | | | | Linear | | | | |
| A114 | Strip/T8 | 4 | 56.3 | 225 | Part No: PT-LSFA-4F | 4 | 25.0 | 100 | 1,900 |
| | fluorescent/4 | | | | Linear | | | | |
| A115 | Downlight/Incandes | 2 | 150.0 | 300 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 1.900 |
| | cent/150.0W/1 | | | | Downlight/Retrofit Kit | | | | |
| | Lamp | | | | | | | | |
| A116 | Wrap/T8 | 2 | 56.3 | 113 | Part No: PT-WAFA-4F91-3CCT | 2 | 30.0 | 60 | 1,900 |
| | ft/32 0W/2 Lamp | | | | Wrap | | | | |
| A117 | Wrap/T8 | 4 | 56.3 | 225 | Part No: PT-WAFA-4F91-3CCT | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Wrap | | | | , |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A118 | Troffer/T8 | 24 | 149.8 | 3,595 | Part No: Backlit FP24 | 24 | 30.0 | 720 | 1,900 |
| | fluorescent/4 | | | | Troffers & Panels | | | | |
| A119 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A120 | Troffer/T8 | 18 | 149.8 | 2,696 | Part No: Backlit FP24 | 18 | 30.0 | 540 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| A121 | Troffer/T8 | 1 | 56.3 | 56 | Part No: Backlit FP 14 | 1 | 20.0 | 20 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | 56.0 | 5.0 | | | | | 1.000 |
| A122 | Fluorescent/4 | 1 | 56.3 | 56 | Part No: Backlit FP 14 Troffers & Panels | 1 | 20.0 | 20 | 1,900 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A123 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| Δ126 | Tt/32.0W/4 Lamp | 2 | 150.0 | 300 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 1 900 |
| A120 | cent/150.0W/1 | 2 | 150.0 | 500 | Downlight/Retrofit Kit | 2 | 24.0 | -10 | 1,500 |
| | Lamp | | | | | | | | |
| A126 | Troffer/T8 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A127 | Troffer/T8 | 12 | 149.8 | 1.798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | , |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A128 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | ft/32 0W/4 Lamp | | | | Troffers & Panels | | | | |
| A129 | Troffer/T8 | 2 | 74.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A130 | Irotter/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A131 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|-------|---------------------------|-----|-------|-------|---------------------------|----------------|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A132 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A133 | Strip/T8 | 3 | 56.3 | 169 | Part No: PT-ISEA_AE | 3 | 25.0 | 75 | 1 900 |
| A133 | Fluorescent/4 | | 50.5 | 105 | Linear | | 23.0 | 75 | 1,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A135 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A137 | Vapor Tight/T8 | 4 | 56.3 | 225 | Part No: PT-VT1-4F-45W | 4 | 45.0 | 180 | 1,900 |
| | ft/32 0W/2 Lamp | | | | Vapor light | | | | |
| A138 | Troffer/T8 | 2 | 56.3 | 113 | Part No: Backlit FP 14 | 2 | 20.0 | 40 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | , |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A139 | Vapor Tight/T8 | 18 | 56.3 | 1,013 | Part No: PT-VT1-4F-45W | 18 | 45.0 | 810 | 1,900 |
| | Fluorescent/4 | | | | Vapor Tight | | | | |
| A140 | Tt/32.0W/2 Lamp | 1 | 15.9 | 16 | Part No: CAN TRIM & WIRED | 1 | 24.0 | 24 | 1 900 |
| A140 | Base/26.0W/2 Lamp | 1 | 45.0 | 40 | Downlight/Retrofit Kit | 1 ¹ | 24.0 | 24 | 1,900 |
| A141 | Troffer/T8 | 3 | 56.3 | 169 | Part No: Backlit FP 14 | 3 | 20.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A143 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A144 | Troffor/CEL | 2 | 70.4 | 1/1 | Part No: Packlit EP22 | 2 | 25.0 | 50 | 1 000 |
| A144 | TT5/40.0W/2 Lamp | 2 | 70.4 | 141 | Troffers & Panels | 2 | 25.0 | 50 | 1,900 |
| A145 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A147 | Vapor Tight/T8 | 6 | 56.3 | 338 | Part No: PT-VT1-4F-45W | 6 | 45.0 | 270 | 1,900 |
| | Fluorescent/4 | | | | Vapor light | | | | |
| A148 | Troffer/T8 | 1 | 56.3 | 56 | Part No: Backlit EP 14 | 1 | 20.0 | 20 | 1 900 |
| 71110 | Fluorescent/4 | - | 50.5 | 50 | Troffers & Panels | | 20.0 | 20 | 1,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A149 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| 4150 | ft/32.0W/4 Lamp | 2 | 70.4 | 1.4.1 | Deat Net Death (DDD) | 2 | 25.0 | 50 | 1.000 |
| A150 | TT5/40.0W/2 Lamp | 2 | /0.4 | 141 | Troffers & Panels | 2 | 25.0 | 50 | 1,900 |
| A153 | Troffer/T8 | 3 | 56.3 | 169 | Part No: Backlit FP 14 | 3 | 20.0 | 60 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | - | | | _/ |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A154 | Downlight/CFL Pin | 1 | 45.8 | 46 | Part No: CAN TRIM 8 WIRED | 1 | 24.0 | 24 | 1,900 |
| | Base/26.0W/2 Lamp | 10 | 56.2 | 676 | Downlight/Retrofit Kit | 10 | 25.0 | 200 | 1.000 |
| A155 | Strip/18 Eluorescent// | 12 | 56.3 | 6/6 | Part No: P1-LSFA-4F | 12 | 25.0 | 300 | 1,900 |
| | ft/32.0W/2 Lamp | | | | Linear | | | | |
| A156 | Troffer/T8 | 4 | 149.8 | 599 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| A157 | Troffer/T8 | 2 | 74.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | fluorescent/4 | | | | Trotters & Panels | | | | |
| A158 | Troffer/CFI | 3 | 70.4 | 211 | Part No: Backlit EP22 | 3 | 25.0 | 75 | 1.900 |
| | TT5/40.0W/2 Lamp | | | | Troffers & Panels | | | | 1,000 |
| A159 | Strip/T8 | 1 | 56.3 | 56 | Part No: PT-LSFA-4F | 1 | 25.0 | 25 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |



| _ | | | | Total | | | | Total | Burn |
|-------------|---------------------------|-----|-------|-------|---------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| A160 | Troffer/CFL | 3 | /0.4 | 211 | Part No: Backlit FP22 | 3 | 25.0 | /5 | 1,900 |
| A161 | Downlight/CEL Din | 2 | 15.0 | 02 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 10 | 1 900 |
| AIOI | Base/26.0W/2 Lamp | 2 | 43.0 | 52 | Downlight/Retrofit Kit | 2 | 24.0 | 40 | 1,900 |
| A201 Stairs | Strip/T8 | 1 | 56.3 | 56 | Part No: PT-LSFA-4F | 1 | 25.0 | 25 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A202 | Troffer/T8 | 5 | 112.3 | 562 | Part No: Backlit FP24 | 5 | 30.0 | 150 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A203 | Troffer/T8 | 2 | 112.3 | 225 | Part No: Backlit EP24 | 2 | 30.0 | 60 | 1 900 |
| 1200 | Fluorescent/4 | - | 112.5 | 225 | Troffers & Panels | - | 50.0 | 00 | 1,500 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| A204 | Troffer/T8 | 2 | 112.3 | 225 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| A 205 | TT/32.0W/3 Lamp | 12 | 56.2 | 676 | Part No: PT ISEA 4E | 12 | 25.0 | 200 | 1 900 |
| A203 | Fluorescent/4 | 12 | 50.5 | 070 | linear | 12 | 23.0 | 500 | 1,900 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| A210/A212 | Strip/T8 | 12 | 56.3 | 676 | Part No: PT-LSFA-4F | 12 | 25.0 | 300 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| 4.211 | ft/32.0W/2 Lamp | - | 56.0 | 45.0 | | 0 | 25.0 | 200 | 1.000 |
| A211 | Strip/18 Eluorescent/4 | 8 | 56.3 | 450 | Part No: PI-LSFA-4F | 8 | 25.0 | 200 | 1,900 |
| | ft/32.0W/2 Lamp | | | | Lincal | | | | |
| A213 | Strip/T8 | 15 | 56.3 | 845 | Part No: PT-LSFA-4F | 15 | 25.0 | 375 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B Elevator | Troffer/T8 | 4 | 74.9 | 300 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| Area | ft/32 0W/2 Lamp | | | | | | | | |
| B Hallway | Troffer/T8 | 14 | 74.9 | 1.049 | Part No: Backlit FP24 | 14 | 30.0 | 420 | 1.900 |
| , | Fluorescent/4 | | | , | Troffers & Panels | | | | , |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B Hallway | Troffer/T8 | 3 | 56.3 | 169 | Part No: Backlit FP 14 | 3 | 20.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Iroffers & Panels | | | | |
| B105 | Strip/T8 | 8 | 56.3 | 450 | Part No: PT-I SFA-4F | 8 | 25.0 | 200 | 1.900 |
| | Fluorescent/4 | | | | Linear | | | | , |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B106 | Troffer/T8 | 6 | 149.8 | 899 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| B107 | Vapor Tight/T8 | 1 | 56.3 | 56 | Part No: PT-VT1-4F-45W | 1 | 45.0 | 45 | 1 900 |
| 5107 | Fluorescent/4 | - | 50.5 | 50 | Vapor Tight | 1 | 13.0 | 15 | 1,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B108 | Troffer/T8 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| B109 | Strip/T8 | 3 | 56.3 | 169 | Part No: PT-ISEA-4E | 3 | 25.0 | 75 | 1 900 |
| DIOJ | Fluorescent/4 | 5 | 50.5 | 105 | Linear | | 23.0 | /5 | 1,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B110 | Vapor Tight/T8 | 12 | 56.3 | 676 | Part No: PT-VT1-4F-45W | 12 | 45.0 | 540 | 1,900 |
| | Fluorescent/4 | | | | Vapor Tight | | | | |
| D112 | TT/32.0W/2 Lamp | E | 56.2 | 220 | Dart No. DT ISEA 45 | C | 25.0 | 150 | 1 000 |
| 2112 | Fluorescent/4 | 0 | 30.3 | 230 | Linear | 0 | 23.0 | 130 | 1,900 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B113 | Troffer/T8 | 6 | 149.8 | 899 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | tt/32.0W/4 Lamp | | | | | | | | |





| C | | | 14/-14- | Total | Description of Cale Man | 0 | | Total | Burn |
|---------------------|----------------------------------------------------|-----|---------|-------|--------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | watts | watts | Proposed Solution | Qty | watts | watts | Hours |
| B114 | Fluorescent/4 ft/32.0W/2 Lamp | 4 | 56.3 | 225 | Part No: P1-V11-4F-45W Vapor Tight | 4 | 45.0 | 180 | 1,900 |
| B119/B120 | Troffer/CFL TT5/40.0W/2 Lamp | 2 | 70.4 | 141 | Part No: Backlit FP22 Troffers & Panels | 2 | 25.0 | 50 | 1,900 |
| B121/B122 | Troffer/T8 Fluorescent/4 | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| D122 | tt/32.0W/2 Lamp | 2 | 56.2 | 110 | | 2 | 45.0 | 00 | 1.000 |
| B123 | Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Vapor Tight | Z | 45.0 | 90 | 1,900 |
| B124/B125 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 2 | 149.8 | 300 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| B124/B125 | Vapor Tight/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 56.3 | 56 | Part No: PT-VT1-4F-45W Vapor Tight | 1 | 45.0 | 45 | 1,900 |
| B126 | Vapor Tight/T8 Fluorescent/4 ft/32.0W/2 Lamp | 12 | 56.3 | 676 | Part No: PT-VT1-4F-45W Vapor Tight | 12 | 45.0 | 540 | 1,900 |
| B129 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 7 | 56.3 | 394 | Part No: PT-LSFA-4F Linear | 7 | 25.0 | 175 | 1,900 |
| B132 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 74.9 | 75 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| B132 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 21 | 149.8 | 3,146 | Part No: Backlit FP24 Troffers & Panels | 21 | 30.0 | 630 | 1,900 |
| B134 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 3 | 112.3 | 337 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| B135 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 3 | 149.8 | 449 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| B136 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-LSFA-4F Linear | 2 | 25.0 | 50 | 521 |
| B137 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 6 | 149.8 | 899 | Part No: Backlit FP24 Troffers & Panels | 6 | 30.0 | 180 | 1,900 |
| B138 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 4 | 112.3 | 449 | Part No: Backlit FP24 Troffers & Panels | 4 | 30.0 | 120 | 1,900 |
| B201 Stairs/hall | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 4 | 56.3 | 225 | Part No: PT-LSFA-8F Linear | 4 | 55.0 | 220 | 1,900 |
| B201 Stairs/hall | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 74.9 | 75 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| B202 | Wrap/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-WAFA-4F91-3CCT Wrap | 2 | 30.0 | 60 | 1,900 |
| B203 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 15 | 56.3 | 845 | Part No: PT-LSFA-8F Linear | 15 | 55.0 | 825 | 1,900 |
| B204 | Highbay/Metal Halide/250.0W/1 Lamp | 18 | 295.0 | 5,310 | Part No: UFO 100 Highbays & Lowbays | 18 | 100.0 | 1,800 | 1,900 |
| B204 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 5 | 56.3 | 282 | Part No: PT-LSFA-8F Linear | 5 | 55.0 | 275 | 1,900 |



| | | | | Total | | | | Total | Burn |
|-----------------------------|------------------------------------------------|-----|-------|-------|---------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| B205 | Strip/T8 Fluorescent/4 | 10 | 56.3 | 563 | Part No: PT-LSFA-4F Linear | 10 | 25.0 | 250 | 1,900 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| B206 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 3 | 56.3 | 169 | Part No: PT-LSFA-4F Linear | 3 | 25.0 | 75 | 1,900 |
| B207 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 6 | 56.3 | 338 | Part No: PT-LSFA-4F Linear | 6 | 25.0 | 150 | 1,900 |
| B208 | Wrap/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-WAFA-4F91-3CCT Wrap | 2 | 30.0 | 60 | 1,900 |
| C Hallways | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 53 | 74.9 | 3,970 | Part No: Backlit FP24 Troffers & Panels | 53 | 30.0 | 1,590 | 1,900 |
| C103/C104 /C105/C10 6 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 4 | 56.3 | 225 | Part No: Backlit FP 14 Troffers & Panels | 4 | 20.0 | 80 | 1,900 |
| C107 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 12 | 56.3 | 676 | Part No: PT-LSFA-4F Linear | 12 | 25.0 | 300 | 1,900 |
| C109-C115 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 74.9 | 75 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| C109-C115 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 10 | 112.3 | 1,123 | Part No: Backlit FP24 Troffers & Panels | 10 | 30.0 | 300 | 1,900 |
| C109-C115 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 2 | 149.8 | 300 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C116 | Strip/T12 Fluorescent/4 ft/40.0W/2 Lamp | 74 | 75.0 | 5,550 | Part No: PT-LSFA-4F Linear | 74 | 25.0 | 1,850 | 1,900 |
| C118 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C119 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 4 | 112.3 | 449 | Part No: Backlit FP24 Troffers & Panels | 4 | 30.0 | 120 | 1,900 |
| C120 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C121-C124 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 6 | 112.3 | 674 | Part No: Backlit FP24 Troffers & Panels | 6 | 30.0 | 180 | 1,900 |
| C125 | Strip/T12 Fluorescent/4 ft/40.0W/2 Lamp | 36 | 75.0 | 2,700 | Part No: PT-LSFA-4F Linear | 36 | 25.0 | 900 | 1,900 |
| C126 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C127 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 1 | 149.8 | 150 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| C128 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C130 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 8 | 149.8 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 8 | 30.0 | 240 | 1,900 |



| | | | | Total | | | | Total | Burn |
|-----------|------------------------------------------------|-----|-------|-------|-----------------------------------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| C133 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 3 | 112.3 | 337 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| C134/C135 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C136 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 2 | 149.8 | 300 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C144 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C145 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 1 | 112.3 | 112 | Part No: Backlit FP24 Troffers & Panels | 1 | 30.0 | 30 | 1,900 |
| C146 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 56.3 | 56 | Part No: Backlit FP 14 Troffers & Panels | 1 | 20.0 | 20 | 1,900 |
| C147 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 3 | 74.9 | 225 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| C148 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| C201 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 6 | 56.3 | 338 | Part No: PT-LSFA-4F Linear | 6 | 25.0 | 150 | 1,900 |
| C203 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 13 | 74.9 | 974 | Part No: Backlit FP24 Troffers & Panels | 13 | 30.0 | 390 | 1,900 |
| D101 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: Backlit FP 14 Troffers & Panels | 2 | 20.0 | 40 | 1,900 |
| D102 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 4 | 149.8 | 599 | Part No: Backlit FP24 Troffers & Panels | 4 | 30.0 | 120 | 1,900 |
| D103/D104 | Troffer/CFL TT5/40.0W/2 Lamp | 12 | 70.4 | 845 | Part No: Backlit FP22 Troffers & Panels | 12 | 25.0 | 300 | 1,900 |
| D105 | Downlight/CFL Pin Base/26.0W/2 Lamp | 2 | 45.8 | 92 | Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit | 2 | 24.0 | 48 | 1,900 |
| D106/D107 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 11 | 74.9 | 824 | Part No: Backlit FP24 Troffers & Panels | 11 | 30.0 | 330 | 2,100 |
| D108/D109 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 5 | 149.8 | 749 | Part No: Backlit FP24 Troffers & Panels | 5 | 30.0 | 150 | 1,900 |
| D110 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 9 | 56.3 | 507 | Part No: PT-LSFA-4F Linear | 9 | 25.0 | 225 | 2,100 |
| D110 | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 16 | 74.9 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 16 | 30.0 | 480 | 2,100 |
| D111 | Downlight/CFL Pin Base/26.0W/2 Lamp | 16 | 45.8 | 733 | Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit | 16 | 24.0 | 384 | 2,100 |
| D111 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 12 | 56.3 | 676 | Part No: PT-LSFA-4F Linear | 12 | 25.0 | 300 | 2,100 |
| D111 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 69 | 112.3 | 7,749 | Part No: Backlit FP24 Troffers & Panels | 69 | 30.0 | 2,070 | 2,100 |



| | | | | Total | | | | Total | Burn |
|-------------|--------------------|-----|-------|-------|---------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| D111 | Troffer/T8 | 26 | 169.0 | 4,394 | Part No: Backlit FP24 | 52 | 30.0 | 1,560 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/6 Lamp | | | | | | | | |
| D112 | Troffer/T8 | 6 | 149.8 | 899 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| | Fluorescent/4 | | | | I rotters & Panels | | | | |
| D113 | Troffer/T8 | 3 | 74.9 | 225 | Part No: Backlit EP24 | 3 | 30.0 | 90 | 2 100 |
| DIIJ | Fluorescent/4 | 5 | 74.5 | 225 | Troffers & Panels | 5 | 50.0 | 50 | 2,100 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| D114 | Troffer/T8 | 8 | 74.9 | 599 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| D115 | Troffer/T8 | 16 | 74.9 | 1,198 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E 2nd Eloor | Troffor/T9 | 60 | 74.0 | 1 101 | Part No: Backlit EP24 | 60 | 20.0 | 1 800 | 1 900 |
| Hallways | Fluorescent/4 | 00 | 74.5 | 4,494 | Troffers & Panels | 00 | 50.0 | 1,000 | 1,500 |
| liannayo | ft/32.0W/2 Lamp | | | | | | | | |
| E Hallways | Troffer/T8 | 58 | 74.9 | 4,344 | Part No: Backlit FP24 | 58 | 30.0 | 1,740 | 2,100 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E101 | Downlight/CFL Pin | 2 | 45.8 | 92 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 2,100 |
| | Base/26.0W/2 Lamp | 10 | 70.4 | 70.4 | Downlight/Retrofit Kit | 10 | 25.0 | 250 | 1.000 |
| E102/E103 | TT5/40.0W/2 Lamp | 10 | 70.4 | /04 | Part No: Backlit FP22 | 10 | 25.0 | 250 | 1,900 |
| F105 | Troffer/T8 | 1 | 56.3 | 56 | Part No: Backlit EP 14 | 1 | 20.0 | 20 | 1 900 |
| 2105 | Fluorescent/4 | - | 50.5 | 50 | Troffers & Panels | - | 20.0 | 20 | 1,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E106 | Strip/T8 | 2 | 56.3 | 113 | Part No: PT-LSFA-4F | 2 | 25.0 | 50 | 521 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E107 | Irotter/18 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| E109 | Troffer/T8 | 12 | 149.8 | 1.798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1.900 |
| | , Fluorescent/4 | | | , , | Troffers & Panels | | | | , |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E110 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| 5112 | ft/32.0W/4 Lamp | 10 | 140.0 | 1 700 | DIN DITTO | 10 | 20.0 | 260 | 1.000 |
| EIIZ | Fluorescent/A | 12 | 149.8 | 1,798 | Troffers & Panels | 12 | 30.0 | 360 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E113 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E114 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E116 | Tt/32.0W/4 Lamp | 12 | 1/0.9 | 1 709 | Part No: Backlit EP24 | 12 | 20.0 | 260 | 1 900 |
| | Fluorescent/4 | 12 | 149.0 | 1,750 | Troffers & Panels | 12 | 30.0 | 300 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E117 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E119 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | i rotters & Panels | | | | |
| F121 | Troffer/T8 | 20 | 149.8 | 2 996 | Part No: Backlit EP24 | 20 | 30.0 | 600 | 1 900 |
| | Fluorescent/4 | 20 | 115.0 | 2,550 | Troffers & Panels | 20 | 50.0 | 000 | 1,500 |
| | ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|-----------|-------------------|-----|--------|---------|---------------------------|-----|-------|----------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| E122 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E100 | Tt/32.0W/4 Lamp | 0 | 140.9 | 1 100 | Dart No: Dacklit ED24 | 0 | 20.0 | 240 | 1 000 |
| EIZS | Fluorescent/4 | 0 | 149.0 | 1,190 | Troffers & Panels | 0 | 50.0 | 240 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E124 | Troffer/T8 | 8 | 112.3 | 898 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E125 | Troffer/T8 | 1 | 74.9 | 75 | Part No: Backlit FP24 | 1 | 30.0 | 30 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E125 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E127 | Troffor/TR | 11 | 140.9 | 1 6 4 9 | Dart No: Racklit ED24 | 11 | 20.0 | 220 | 1 000 |
| EIZ/ | Fluorescent/A | 11 | 149.0 | 1,040 | Troffers & Panels | | 50.0 | 550 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E130 | Troffer/T8 | 1 | 74.9 | 75 | Part No: Backlit FP24 | 1 | 30.0 | 30 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E130 | Troffer/T8 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E131 | Troffer/CFL | 2 | 70.4 | 141 | Part No: Backlit FP22 | 2 | 25.0 | 50 | 1,900 |
| 5122 | 115/40.0W/2 Lamp | 2 | 1.40.0 | 200 | Iroffers & Panels | 2 | 20.0 | 60 | 1.000 |
| E132 | lrotter/18 | 2 | 149.8 | 300 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| F133 | Troffer/T8 | 8 | 149.8 | 1 198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1 900 |
| 2100 | Fluorescent/4 | | 11010 | 1,100 | Troffers & Panels | | 0010 | 2.10 | 2,500 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E134 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E135 | Troffer/T8 | 2 | 112.3 | 225 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | TT/32.0W/3 Lamp | 2 | 112.2 | 225 | | 2 | 20.0 | <u> </u> | 1.000 |
| E130 | Fluorescent/4 | 2 | 112.3 | 225 | Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E137/E142 | Downlight/CFL Pin | 6 | 45.8 | 275 | Part No: CAN TRIM 8 WIRED | 6 | 24.0 | 144 | 1,900 |
| | Base/26.0W/2 Lamp | | | | Downlight/Retrofit Kit | | | | |
| E138/E139 | Strip/T8 | 2 | 56.3 | 113 | Part No: PT-LSFA-4F | 2 | 25.0 | 50 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E140 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E1/1 | Troffor/TR | 2 | 112.2 | 225 | Part No: Racklit EP24 | 2 | 20.0 | 60 | 1 000 |
| L141 | Fluorescent/4 | 2 | 112.5 | 225 | Troffers & Panels | 2 | 50.0 | 00 | 1,900 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E144 | Troffer/T8 | 2 | 74.9 | 150 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E145 | Troffer/T8 | 6 | 112.3 | 674 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| 5146 | TT/32.0W/3 Lamp | 2 | 74.0 | 150 | Devit Nex Devilit 5D2.4 | 2 | 20.0 | 60 | 1.000 |
| E140 | Fluorescent/4 | 2 | /4.9 | 120 | Troffers & Panels | 2 | 30.0 | 60 | T'AOO |
| | ft/32.0W/2 Lamp | | | | | | | | |
| | , , | | 1 | | | 1 | | | |



| Space Existing Fixer Opy Watts Watts Proposed Solution Qiv Watts Muters F147 Fixor-securit/ Fixor-securit/ IV22.0W73 tamp -2 -2 -2 Part No: Backit FP24 Toffer/SR Panels -2 -0.0 -0.00 -1.000 F148 Fixor-securit/ IV22.0W73 tamp -2 -12.3 -27 Part No: Backit FP24 Toffer/SR Panels -2 -0.0 -0.00 -1.000 E149 Commight/FEP1m 6 45.8 -27 Part No: Backit FP24 -6 2.40 1.40 -0.000 E150/E134 Downight/FEP1m 6 45.8 2.75 Part No: Backit FP24 -6 2.40 1.40 1.000 E150/E134 Downight/FEP1m 6 45.8 7.05 Part No: Backit FP24 4 2.60 2.00 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 | | | | | Total | | | | Total | Burn |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------|-----|-------|-------|---------------------------------------------|-----|-------|-------|-------|
| F147 Troffer/T8 7 112.3 225 Part No: Backlit FP24 2 30.0 601 1,800 E148 Troffer/T8 Part No: Backlit FP24 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 <t< th=""><th>Space</th><th>Existing Fixture</th><th>Qty</th><th>Watts</th><th>Watts</th><th>Proposed Solution</th><th>Qty</th><th>Watts</th><th>Watts</th><th>Hours</th></t<> | Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| Horescent/4 Interfer/I8 Horescent/4 Interfer/I8 Horescent/4 Interfer/I8 Horescent/4 Interfer/I8 Horescent/4 Interfer/I8 Horescent/4 Interfer/I8 Horescent/4 Interfer/I8 Horescent/4 Interfer/I8 Interfer/I8 Part No: BackIst FP24 Interfer/I8 Job Job Job E140 Interfer/I8 Interfer/I8 Part No: BackIst FP24 Interfer/I8 Job Job Job Job Job Job E140/I1 Interfer/I8 Part No: BackIst FP24 Interfer/I8 Job < | E147 | Troffer/T8 | 2 | 112.3 | 225 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1,900 |
| E148 Institution 2 112.3 225 Part No: Backlit FP24 Interfers & Panels 2 30.0 60 1,900 E149 Interfers A 12.4 337 Part No: Backlit FP24 Interscent/4 3 10.0 9.00 1,900 E150/E154 Bowrlight/GF18 3 12.4 337 Part No: Backlit FP24 Troffers & Panels 6 2.40 1.44 1.500 E150/E154 Bowrlight/GF18 6 4.5.8 2.75 Part No: Backlit FP24 4 2.50 1.00 1.500 E150/E154 Bowrlight/GF18 4 7.04 2.82 Part No: Backlit FP24 4 2.50 1.00 1.500 E150 Troffer/78 8 1.49.8 1.318 Part No: Backlit FP24 8 3.0.0 2.40 1.500 E150 Troffer/78 8 1.49.8 1.318 Part No: Backlit FP24 16 3.0.0 2.40 1.500 E150 Troffer/78 Part No: Backlit FP24 16 3.0.0 2.40 | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| International state International state International state International state International state E140 Fronfler/R A 12.23 337 Part No: Backits FP24 3 3 30.0 9.0 1,900 E150/E150 Domolight/GE Implementational state 6 45.8 275 Part No: CAN TRIM & WRED 6 2.4.0 1.4.4 1,900 E150/E150 Domolight/GE Implementational state 7.0.4 222 Part No: Backits FP24 4 2.5.0 1.00 1,900 E150/E151 Triffer/R 4 7.0.4 222 Part No: Backits FP24 8 30.0 2.40 1,900 E153 Triffer/R 8 1.49.8 1,198 Part No: Backits FP24 8 30.0 2.40 1,900 E153 Triffer/R 8 1.49.8 1,198 Part No: Backits FP24 8 30.0 2.40 1,900 E153 Triffer/R 8 1.49.8 2,397 Part No: Backits FP24 1.8 3.0.0 2.40 <td>F148</td> <td>Troffer/T8</td> <td>2</td> <td>112.3</td> <td>225</td> <td>Part No: Backlit FP24</td> <td>2</td> <td>30.0</td> <td>60</td> <td>1.900</td> | F148 | Troffer/T8 | 2 | 112.3 | 225 | Part No: Backlit FP24 | 2 | 30.0 | 60 | 1.900 |
| H1/32.00/31 amp ICA ICA <thica< th=""></thica<> | 2110 | Fluorescent/4 | - | 11210 | 220 | Troffers & Panels | - | 0010 | | 1,500 |
| E149 Troffer/T8 3 112.3 937 Part No: Backli FP24 Troffer/S & Panels 3 9.00 9.00 1,900 E150/E151 Troffer/TS 6 4.8 275 Part No: CAN TRINB VIRED Downight/GEP INTS 6 24.0 1.44 1,900 E157 Troffer/T8 4 7.0. 280 Part No: Backli FP24 4 5.0 1.00 1,900 E156 Troffer/T8 4 7.0.4 280 Part No: Backli FP24 4 9.0.0 1,900 E157 Troffer/T8 8 1.08 1,198 Part No: Backli FP24 8 3.0.0 240 1,900 E158 Troffer/T8 8 1.49.8 1,198 Part No: Backli FP24 8 3.0.0 240 1,900 E158 Troffer/T8 16 1.49.8 2,997 Part No: Backli FP24 16 3.0.0 480 1,900 E154 Troffer/T8 1.198 Part No: Backli FP24 16 3.0.0 2.0 1,900 < | | ft/32.0W/3 Lamp | | | | | | | | |
| Hubbackenity (Lindex Length | E149 | Troffer/T8 | 3 | 112.3 | 337 | Part No: Backlit FP24 | 3 | 30.0 | 90 | 1,900 |
| E150/E154 Bownight/Fit Pin Bary/5 0W/2 hamp 6 45.8 275 Part No: CAN TRUM 9 WRED 6 24.0 144 1.900 E152/E153 Troffer/CIL TTS/MOV2 hamp 4 70.4 282 Part No: Backitt FP2 4 25.0 1000 1.900 E156 Troffer/T8 Fluerescent/A fruerescent/A 8 1.49.8 1.198 Part No: Backitt FP2 4 25.0 1000 1.900 E157 Troffer/T8 Fluerescent/A fr/32.0W/4 Lamp 8 1.49.8 1.198 Part No: Backitt FP24 Troffers & Panels 8 30.0 2400 1.900 E158 Troffer/T8 Fluerescent/A fr/32.0W/4 Lamp 8 149.8 1.98 Part No: Backitt FP24 Troffers & Panels 8 30.0 2400 1.900 E158 Troffer/T8 Fluerescent/A fr/32.0W/4 Lamp 16 149.8 2.307 Part No: Backitt FP24 Troffers & Panels 16 30.0 480 1.900 E161 Troffer/T8 Fluerescent/A fr/32.0W/4 Lamp 16 149.8 2.307 Part No: Backitt FP24 Troffers & Panels 11 30.0 30.0 <td></td> <td>fluorescent/4 ft/32 0W/3 Lamp</td> <td></td> <td></td> <td></td> <td>Troffers & Panels</td> <td></td> <td></td> <td></td> <td></td> | | fluorescent/4 ft/32 0W/3 Lamp | | | | Troffers & Panels | | | | |
| Bask/2.5.0W/2.1amp Constraint Constraint <th< td=""><td>E150/E154</td><td>Downlight/CFL Pin</td><td>6</td><td>45.8</td><td>275</td><td>Part No: CAN TRIM 8 WIRED</td><td>6</td><td>24.0</td><td>144</td><td>1,900</td></th<> | E150/E154 | Downlight/CFL Pin | 6 | 45.8 | 275 | Part No: CAN TRIM 8 WIRED | 6 | 24.0 | 144 | 1,900 |
| F152/F15 Troffer/R1 4 70.4 70.2 Part No: Backlit FP22 4 2.5.0 100 1,500 E156 Troffer/R3 8 149.8 1,198 Part No: Backlit FP24 8 30.0 2.40 1,900 E157 Troffer/R 8 149.8 1,198 Part No: Backlit FP24 8 30.0 2.40 1,900 E158 Troffer/R 8 149.8 1,98 Part No: Backlit FP24 8 30.0 2.40 1,900 E158 Troffer/R 8 149.8 1,98 Part No: Backlit FP24 8 30.0 2.40 1,900 E159 Troffer/R 16 149.8 2,397 Part No: Backlit FP24 16 30.0 480 1,900 E161 Troffer/R 16 149.8 2,397 Part No: Backlit FP24 16 30.0 2.40 1,900 E163 Troffer/R 1 74.9 75 Part No: Backlit FP24 16 30.0 2.00 1,900 E163 Troffer/R 1 74.9 75 Part No: | , | Base/26.0W/2 Lamp | | | | Downlight/Retrofit Kit | | | | , |
| Lisk0 Undersk kanels Undersk kanels </td <td>E152/E153</td> <td>Troffer/CFL</td> <td>4</td> <td>70.4</td> <td>282</td> <td>Part No: Backlit FP22</td> <td>4</td> <td>25.0</td> <td>100</td> <td>1,900</td> | E152/E153 | Troffer/CFL | 4 | 70.4 | 282 | Part No: Backlit FP22 | 4 | 25.0 | 100 | 1,900 |
| ELGO Function of the sector of the sector P24 of the sector P2 | E1EC | Troffor/TR | 0 | 140.9 | 1 100 | Part No: Packlit EP24 | 0 | 20.0 | 240 | 1 000 |
| 1/32 OW/A tamp 1/42 OW/A tamp 1/42 OW/A tamp 1/40 1/40 Part No: Backlit FP24 troffers & Panels 1/8 3/00 2/00 1/90 E158 Troffer/T8 Fluorescent/4 tr/32 OW/A tamp 8 1/9.8 1/9.8 Part No: Backlit FP24 troffers & Panels 8 3/00 2/00 1/900 E159 Troffer/T8 Fluorescent/4 tr/32 OW/A tamp 1/6 1/9.8 2/397 Part No: Backlit FP24 troffers & Panels 1/6 3/00 4/80 1/900 E161 Troffer/T8 Fluorescent/4 tr/32 OW/A tamp 1/6 1/9.8 2/397 Part No: Backlit FP24 troffers & Panels 1/6 3/00 4/80 1/900 E162 Troffer/T8 Fluorescent/4 tr/32 OW/A tamp 1/6 1/9.8 2/397 Part No: Backlit FP24 troffers & Panels 1 3/00 3/0 1/900 E162 Troffer/T8 Fluorescent/4 tr/32 OW/A tamp 1/6 1/9.8 2/970 Part No: Backlit FP24 troffers & Panels 1 3/00 2/00 1/900 E163 Troffer/T8 Fluorescent/4 tr/32 OW/A tamp 2/0 1/94.8 2/960 Part No: Backlit FP24 trof | ET20 | Fluorescent/4 | ŏ | 149.8 | 1,198 | Troffers & Panels | ŏ | 30.0 | 240 | 1,900 |
| E157 Inder,78 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 8.0.0 2.40 1,900 E158 Troffer/78 Fluorescent/4 tr/32.0W/4 Lamp 8 3 3.00 2.40 1,900 E159 Troffer/78 Fluorescent/4 tr/32.0W/4 Lamp 16 3.00 2.40 1,900 E161 Troffer/78 Fluorescent/4 tr/32.0W/4 Lamp 16 3.00 2.40 1,900 E162 Troffer/78 Fluorescent/4 tr/32.0W/4 Lamp 149.8 2.397 Part No: Backlit FP24 Troffers & Panels 16 3.00 2.40 1,900 E162 Troffer/78 Fluorescent/4 tr/32.0W/4 Lamp 1 7.49 7.50 Part No: Backlit FP24 Troffers & Panels 18 3.00 2.40 1,900 E163 Troffer/78 Fluorescent/4 tr/32.0W/4 Lamp 1 7.49 7.50 Part No: Backlit FP24 Troffers & Panels 8 3.00 2.40 1,900 E163 Troffer/78 Fluorescent/4 tr/32.0W/4 Lamp 2.0 1.49.8 3.595 Part No: Backlit FP24 Troffers & Panels 3.00 2.0 1,900 | | , ft/32.0W/4 Lamp | | | | | | | | |
| Huorssent/4 (J32.0W/4 Lamp Index Troffer/R S Panels Index Index Index E158 Troffer/T8 (J732.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E159 Troffer/T8 (Fuorssent/4 (J732.0W/4 Lamp 16 149.8 2,397 Part No: Backlit FP24 Troffer & Panels 16 30.0 480 1,900 E161 Troffer/T8 Fluorssent/4 (J732.0W/2 Lamp 149.8 2,397 Part No: Backlit FP24 Troffer & Panels 16 30.0 480 1,900 E162 Troffer/T8 Fluorssent/4 (J32.0W/2 Lamp 1 74.9 75 Part No: Backlit FP24 Troffer & Panels 1 30.0 30 1,900 E163 Troffer/T8 Fluorssent/4 (J32.0W/2 Lamp 1 9 20 30.0 600 1,900 E164 Troffer/T8 Fluorssent/4 (J32.0W/2 Lamp 24 149.8 3,595 Part No: Backlit FP24 Troffers & Panels 20 30.0 600 1,900 E165 Troffer/T8 Fluorescent/4 (J32.0W/2 Lamp 24 149.8 3, | E157 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| Interm Interm< | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| Habs Fluorescent/4 tr/32.0W/4 tamp 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 1 | F158 | Troffer/T8 | 8 | 149.8 | 1 198 | Part No: Backlit EP24 | 8 | 30.0 | 240 | 1 900 |
| Introde Introde <t< td=""><td>2130</td><td>Fluorescent/4</td><td>0</td><td>115.0</td><td>1,150</td><td>Troffers & Panels</td><td></td><td>50.0</td><td>210</td><td>1,500</td></t<> | 2130 | Fluorescent/4 | 0 | 115.0 | 1,150 | Troffers & Panels | | 50.0 | 210 | 1,500 |
| E159 Troffer/T8 Huorescent/4 (f/32.0W/4 Lamp 16 149.8 2,397 Part No: Backlit FP24 Troffers & Panels 16 30.0 480 1,900 E161 Troffer/T8 Huorescent/4 (f/32.0W/2 Lamp 16 149.8 2,397 Part No: Backlit FP24 Troffer/S & Panels 16 30.0 480 1,900 E162 Troffer/T8 Fluorescent/4 (f/32.0W/2 Lamp 1 74.9 75 Part No: Backlit FP24 Troffers & Panels 1 30.0 240 1,900 E162 Troffer/T8 Fluorescent/4 (f/32.0W/2 Lamp 1 74.9 75 Part No: Backlit FP24 Troffers & Panels 1 30.0 240 1,900 E163 Troffer/T8 Fluorescent/4 (f/32.0W/4 Lamp 20 149.8 2,996 Part No: Backlit FP24 Troffers & Panels 20 30.0 600 1,900 E164 Troffer/T8 Fluorescent/4 (f/32.0W/4 Lamp 24 149.8 2,996 Part No: Backlit FP24 Troffers & Panels 24 30.0 720 1,900 E164 Troffer/T8 Fluorescent/4 (f/32.0W/2 Lamp 24 149.8 2,996 Part No: Backlit FP24 Troffers & Panels <td></td> <td>ft/32.0W/4 Lamp</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | ft/32.0W/4 Lamp | | | | | | | | |
| Hudescent/4 (r/32.0W/4 Lamp India for the form of the section of the sectin of the section of the section of the sectin of the sect | E159 | Troffer/T8 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| Life Troffer/T8 16 149.8 2,397 Part No: Backlit FP24 16 30.0 480 1,900 E161 Troffer/T8 1 74.9 75 Part No: Backlit FP24 1 30.0 480 1,900 E162 Troffer/T8 1 74.9 75 Part No: Backlit FP24 1 30.0 30 1,900 E162 Troffer/T8 1 74.9 75 Part No: Backlit FP24 1 30.0 30 1,900 E163 Troffer/T8 8 149.8 1,988 Part No: Backlit FP24 7 88 30.0 240 1,900 E163 Troffer/T8 8 149.8 2,996 Part No: Backlit FP24 20 30.0 600 1,900 E164 Troffer/T8 2 149.8 3,595 Part No: Backlit FP24 7 30.0 600 1,900 E165 Troffer/T8 4 112.3 449 Part No: Backlit FP24 7 30.0 120 | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| Fluorescent/4 ft/32.0W/4 Lamp Image: Fluorescent/4 ft/32.0W/2 Lamp 1 74.9 75 Part No: Backlit FP24 Troffer S& Panels 1 30.0 30 1.900 E162 Troffer/T8 fluorescent/4 ft/32.0W/2 Lamp 8 149.8 1.188 Part No: Backlit FP24 Troffer S& Panels 8 30.0 240 1.900 E163 Troffer/T8 fluorescent/4 ft/32.0W/4 Lamp 20 149.8 2.996 Part No: Backlit FP24 Troffer S& Panels 20 30.0 600 1.900 E163 Troffer/T8 fluorescent/4 ft/32.0W/4 Lamp 20 149.8 2.996 Part No: Backlit FP24 Troffer S& Panels 20 30.0 600 1.900 E164 Troffer/T8 fluorescent/4 ft/32.0W/4 Lamp 24 149.8 3.595 Part No: Backlit FP24 Troffer S& Panels 24 30.0 20 1.900 E164 Troffer/T8 fluorescent/4 ft/32.0W/3 Lamp 2 74.9 150 Part No: Backlit FP24 Troffer S& Panels 24 30.0 120 1.900 E165 Troffer/T8 fluorescent/4 ft/32.0W/3 Lamp 449 Part No: Backlit FP24 Troffer S& Panels 6 | E161 | Troffer/T8 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| Interplate Interplat Interplat Interplat | | , Fluorescent/4 | | | , | Troffers & Panels | | | | , |
| E162 Troffer/T8 1 74.9 75 Part No: Backlit FP24 1 30.0 30 1,900 E163 Troffer/T8 8 149.8 1,98 Part No: Backlit FP24 8 30.0 240 1,900 E164 Troffer/T8 8 149.8 1,98 Part No: Backlit FP24 8 30.0 240 1,900 E163 Troffer/T8 200/td> 149.8 2,996 Part No: Backlit FP24 20 30.0 200 200 200 E164 Troffer/T8 24 149.8 3,595 Part No: Backlit FP24 24 30.0 700 200 200 E164 Troffer/T8 24 149.8 3,595 Part No: Backlit FP24 24 30.0 700 200 200 E165 Troffer/T8 4 11.3 449 Part No: Backlit FP24 24 30.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 <th2< td=""><td></td><td>ft/32.0W/4 Lamp</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th2<> | | ft/32.0W/4 Lamp | | | | | | | | |
| Priority Lamp Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior Prior <td>E162</td> <td>Troffer/T8</td> <td>1</td> <td>74.9</td> <td>75</td> <td>Part No: Backlit FP24</td> <td>1</td> <td>30.0</td> <td>30</td> <td>1,900</td> | E162 | Troffer/T8 | 1 | 74.9 | 75 | Part No: Backlit FP24 | 1 | 30.0 | 30 | 1,900 |
| E162 Troffer/T8 Fluorescent/4 (t/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E163 Troffer/T8 Fluorescent/4 (t/32.0W/4 Lamp 20 149.8 2,996 Part No: Backlit FP24 Troffers & Panels 20 30.0 600 1,900 E164 Troffer/T8 Fluorescent/4 (t/32.0W/4 Lamp 24 149.8 3,595 Part No: Backlit FP24 Troffers & Panels 24 30.0 720 1,900 E164 Troffer/T8 Fluorescent/4 (t/32.0W/2 Lamp 24 149.8 3,595 Part No: Backlit FP24 Troffers & Panels 24 30.0 600 1,900 E165 Troffer/T8 Fluorescent/4 (t/32.0W/3 Lamp 2 74.9 150 Part No: Backlit FP24 Troffers & Panels 2 30.0 60 1,900 E166 Troffer/T8 Fluorescent/4 (t/32.0W/3 Lamp 4 112.3 674 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E167 Troffer/T8 Fluorescent/4 (t/32.0W/3 Lamp 6 70.4 422 Part No: Backlit FP24 Troffers & Panels | | ft/32.0W/2 Lamp | | | | | | | | |
| Horescent/4 fr/32.0W/4 Lamp Image: Marcine Section of the sectin defined of the section of the section of the sectio | E162 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| Interpretation Interpr | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E103 Interfal 20 143.8 2,996 Part No: Backlit P24 Troffers & Panels 20 30.0 600 1,900 E104 Troffer/T8 24 149.8 3,595 Part No: Backlit P24 Troffers & Panels 24 30.0 720 1,900 E164 Troffer/T8 24 149.8 3,595 Part No: Backlit FP24 Troffers & Panels 24 30.0 720 1,900 E165 Troffer/T8 2 74.9 150 Part No: Backlit FP24 Troffers & Panels 2 30.0 60 1,900 E165 Troffer/T8 4 112.3 449 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E166 Troffer/T8 4 112.3 674 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E167 Troffer/T8 6 112.3 674 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E167 Troffer/T8 6 112.3 674 <td>5162</td> <td>ft/32.0W/4 Lamp</td> <td>20</td> <td>140.0</td> <td>2.000</td> <td>Devit Nex Devilit ED24</td> <td>20</td> <td>20.0</td> <td>600</td> <td>1.000</td> | 5162 | ft/32.0W/4 Lamp | 20 | 140.0 | 2.000 | Devit Nex Devilit ED24 | 20 | 20.0 | 600 | 1.000 |
| Instruction | E103 | Fluorescent/4 | 20 | 149.8 | 2,996 | Troffers & Panels | 20 | 30.0 | 600 | 1,900 |
| E164 Troffer/T8 24 149.8 3,595 Part No: Backlit FP24 24 30.0 720 1,900 E165 Troffer/T8 2 74.9 150 Part No: Backlit FP24 20 30.0 60 1,900 E165 Troffer/T8 2 74.9 150 Part No: Backlit FP24 20 30.0 60 1,900 E166 Troffer/T8 4 4 Part No: Backlit FP24 74.9 2 30.0 60 1,900 E166 Troffer/T8 4 4 9 Part No: Backlit FP24 4 30.0 12.0 1,900 E167 Troffer/T8 6 112.3 674 Part No: Backlit FP24 6 30.0 180 1,900 E168 Troffer/T8 6 112.3 674 Part No: Backlit FP24 6 30.0 180 1,900 E169/E171 Troffer/T8 6 112.3 674 Part No: Backlit FP24 6 30.0 180 1,900 E169/E171 Troffer/T8 6 70.4 20 Part No: Backlit FP24 </td <td></td> <td>ft/32.0W/4 Lamp</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | ft/32.0W/4 Lamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/4 Lamp Call Troffers & Panels Call Call <thcall< th=""> Call <thcall< t<="" td=""><td>E164</td><td>Troffer/T8</td><td>24</td><td>149.8</td><td>3,595</td><td>Part No: Backlit FP24</td><td>24</td><td>30.0</td><td>720</td><td>1,900</td></thcall<></thcall<> | E164 | Troffer/T8 | 24 | 149.8 | 3,595 | Part No: Backlit FP24 | 24 | 30.0 | 720 | 1,900 |
| E165 Troffer/T8 74.9 150 Part No: Backlit FP24 Troffers & Panels 2 30.0 60 1,900 E166 Troffer/T8 4 112.3 449 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E166 Troffer/T8 4 112.3 449 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E167 Troffer/T8 6 112.3 674 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E167 Troffer/T8 6 112.3 674 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E168 Troffer/T8 6 112.3 674 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E168 Fluorescent/4 fr/32.0W/3 Lamp 6 12.3 674 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E169/E171 Troffer/T8 6 12.3 674 | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| Liss Liss <thliss< th=""> Liss Liss <thl< td=""><td>F165</td><td>Troffer/T8</td><td>2</td><td>74.9</td><td>150</td><td>Part No: Backlit EP24</td><td>2</td><td>30.0</td><td>60</td><td>1 900</td></thl<></thliss<> | F165 | Troffer/T8 | 2 | 74.9 | 150 | Part No: Backlit EP24 | 2 | 30.0 | 60 | 1 900 |
| ft/32.0W/2 Lampininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininin </td <td>2100</td> <td>Fluorescent/4</td> <td>2</td> <td>71.5</td> <td>100</td> <td>Troffers & Panels</td> <td>2</td> <td>50.0</td> <td>00</td> <td>1,500</td> | 2100 | Fluorescent/4 | 2 | 71.5 | 100 | Troffers & Panels | 2 | 50.0 | 00 | 1,500 |
| E166 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E167 Troffer/T8 6 112.3 674 Part No: Backlit FP24 6 30.0 180 1,900 E167 Fluorescent/4 ft/32.0W/3 Lamp 67 Part No: Backlit FP24 6 30.0 180 1,900 E168 Troffer/T8 6 112.3 674 Part No: Backlit FP24 6 30.0 180 1,900 E168 Troffer/T8 6 112.3 674 Part No: Backlit FP24 6 30.0 180 1,900 E169 Troffer/CFL 6 70.4 422 Part No: Backlit FP24 6 30.0 180 1,900 E169/E171 Troffer/CFL 6 70.4 422 Part No: Backlit FP24 6 25.0 150 1,900 E170 Troffer/T8 1 56.3 56 Part No: Backlit FP 14 1 20.0 20 521 Fluorescent/4 ft/32.0W/2 Lamp 1 56.3 92 Part No: CAN TRI | | ft/32.0W/2 Lamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/3 LampFluorescent/4 ft/32.0W/3 LampFluorescent/4 ft/32.0W/2 LampFluorescent/4< | E166 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| E167Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp6112.3674 clumescent/4 ft/32.0W/3 LampPart No: Backlit FP24 Troffers & Panels630.01801,900E168Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp6112.3674 clumescent/4 ft/32.0W/3 LampPart No: Backlit FP24 Troffers & Panels630.01801,900E169/E171Troffer/CFL TT5/40.0W/2 Lamp670.4422 clumescent/4 ft/32.0W/2 LampPart No: Backlit FP22 Troffers & Panels625.01501,900E170Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp156.356 clumescent/4 Troffers & Panels120.020521E172Downlight/CFL Pin Base/26.0W/2 Lamp245.892 clumescent/4 Troffers & Panels224.0481,900 clumescent/4 Troffers & PanelsE173Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp24149.83,595 Torffers & Panels2430.07201,900 | | Fluorescent/4 ft/32.0W/3.Lamp | | | | Troffers & Panels | | | | |
| Fluorescent/4 ft/32.0W/3 LampFluorescent/4 ft/32.0W/3 LampFluorescent/4 ft/32.0W/2 LampFluorescent/4< | E167 | Troffer/T8 | 6 | 112.3 | 674 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| ft/32.0W/3 LampImage: Constraint of the state | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E168 Irofter/18 6 112.3 6/4 Part No: Backlit FP24 6 30.0 180 1,900 Fluorescent/4 ft/32.0W/3 Lamp 6 70.4 422 Part No: Backlit FP22 6 25.0 150 1,900 E169/E171 Troffer/CFL 6 70.4 422 Part No: Backlit FP22 6 25.0 150 1,900 E170 Troffer/78 1 56.3 56 Part No: Backlit FP 14 1 20.0 20 521 Fluorescent/4 ft/32.0W/2 Lamp 1 56.3 56 Part No: CAN TRIM 8 WIRED 2 24.0 48 1,900 E172 Downlight/CFL Pin Base/26.0W/2 Lamp 2 45.8 92 Part No: CAN TRIM 8 WIRED 2 24.0 48 1,900 E173 Troffer/T8 24 149.8 3,595 Part No: Backlit FP24 24 30.0 720 1,900 Fluorescent/4 ft/32.0W/4 Lamp 24 149.8 3,595 Part No: Backlit FP24 24 30.0 720 1,900 | 5160 | ft/32.0W/3 Lamp | | 110.0 | 67.4 | | 6 | | 100 | 1.000 |
| Indecently 4 Indecently 4 <td< td=""><td>E168</td><td>Fluorescent/4</td><td>6</td><td>112.3</td><td>674</td><td>Part No: Backlit FP24 Troffers & Panels</td><td>6</td><td>30.0</td><td>180</td><td>1,900</td></td<> | E168 | Fluorescent/4 | 6 | 112.3 | 674 | Part No: Backlit FP24 Troffers & Panels | 6 | 30.0 | 180 | 1,900 |
| E169/E171 Troffer/CFL TT5/40.0W/2 Lamp 6 70.4 422 Part No: Backlit FP22 Troffers & Panels 6 25.0 150 1,900 E170 Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp 1 56.3 56 Part No: Backlit FP 14 Troffers & Panels 1 20.0 20 521 E170 Troffer/T8 fluorescent/4 ft/32.0W/2 Lamp 1 56.3 56 Part No: Backlit FP 14 Troffers & Panels 1 20.0 20 521 E172 Downlight/CFL Pin Base/26.0W/2 Lamp 2 45.8 92 Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit 2 24.0 48 1,900 E173 Troffer/T8 fluorescent/4 ft/32.0W/4 Lamp 24 149.8 3,595 Part No: Backlit FP24 Troffers & Panels 24 30.0 720 1,900 | | ft/32.0W/3 Lamp | | | | | | | | |
| TT5/40.0W/2 LampImage: Constraint of the state of the stat | E169/E171 | Troffer/CFL | 6 | 70.4 | 422 | Part No: Backlit FP22 | 6 | 25.0 | 150 | 1,900 |
| L1/0I rotter/18156.356Part No: Backlit FP 14120.020521Fluorescent/4 ft/32.0W/2 Lamp <td>5170</td> <td>TT5/40.0W/2 Lamp</td> <td></td> <td></td> <td></td> <td>Troffers & Panels</td> <td></td> <td>0.5.5</td> <td></td> <td>59.1</td> | 5170 | TT5/40.0W/2 Lamp | | | | Troffers & Panels | | 0.5.5 | | 59.1 |
| Indersecting + ft/32.0W/2 Lamp245.892Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit224.0481,900E172Base/26.0W/2 Lamp245.892Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit224.0481,900E173Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp24149.83,595Part No: Backlit FP24 Troffers & Panels2430.07201,900 | E1/0 | Fluorescent /4 | 1 | 56.3 | 56 | Part No: Backlit FP 14 Troffers & Papels | | 20.0 | 20 | 521 |
| E172Downlight/CFL Pin Base/26.0W/2 Lamp245.892Part No: CAN TRIM 8 WIRED Downlight/Retrofit Kit224.0481,900E173Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp24149.83,595Part No: Backlit FP24 Troffers & Panels2430.07201,900 | | ft/32.0W/2 Lamp | | | | | | | | |
| Base/26.0W/2 LampImage: Constraint of the system of the syste | E172 | Downlight/CFL Pin | 2 | 45.8 | 92 | Part No: CAN TRIM 8 WIRED | 2 | 24.0 | 48 | 1,900 |
| L1/3 I roffer/T8 24 149.8 3,595 Part No: Backlit FP24 24 30.0 720 1,900 Fluorescent/4 ft/32.0W/4 Lamp ft/32.0W/4 Lamp Troffers & Panels ft/32.0W/4 Lamp ft/32.0W/4 La | | Base/26.0W/2 Lamp | | | | Downlight/Retrofit Kit | | | | |
| ft/32.0W/4 Lamp | E173 | Trotter/T8 | 24 | 149.8 | 3,595 | Part No: Backlit FP24 | 24 | 30.0 | 720 | 1,900 |
| | | ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|------------|------------------|-----|--------|---------|------------------------|-----|-------|-------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| E174 | Troffer/T8 | 20 | 149.8 | 2,996 | Part No: Backlit FP24 | 20 | 30.0 | 600 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | 4.6 | 1.10.0 | 0.007 | | 1.0 | | 40.0 | 1.000 |
| E1/5 | lroffer/18 | 16 | 149.8 | 2,397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1,900 |
| | ft/32 0W/4 Lamp | | | | | | | | |
| F176 | Troffer/T8 | 16 | 149.8 | 2.397 | Part No: Backlit FP24 | 16 | 30.0 | 480 | 1.900 |
| | Fluorescent/4 | | | _, | Troffers & Panels | | | | _/ |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E201 | Strip/T8 | 13 | 56.3 | 732 | Part No: PT-LSFA-4F | 13 | 25.0 | 325 | 1,900 |
| | Fluorescent/4 | | | | Linear | | | | |
| 5202 | ft/32.0W/2 Lamp | | 70.4 | 252 | | | 25.0 | 125 | 1.000 |
| E202 | TT5/40.0W/2 Lamp | 5 | 70.4 | 352 | Part No: Backlit FP22 | 5 | 25.0 | 125 | 1,900 |
| F203 | Strip/T8 | 3 | 56.3 | 169 | Part No: PT-I SEA-4E | 3 | 25.0 | 75 | 1 900 |
| 2200 | Fluorescent/4 | | 0010 | 105 | Linear | | 2010 | , 0 | 2,500 |
| | ft/32.0W/2 Lamp | | | | | | | | |
| E204 | Troffer/CFL | 7 | 70.4 | 493 | Part No: Backlit FP22 | 7 | 25.0 | 175 | 1,900 |
| | TT5/40.0W/2 Lamp | | | | Troffers & Panels | | | | |
| E205 | Troffer/T8 | 7 | 149.8 | 1,049 | Part No: Backlit FP24 | 7 | 30.0 | 210 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E206/E207/ | Troffer/T8 | 6 | 112.3 | 674 | Part No: Backlit EP24 | 6 | 30.0 | 180 | 1 900 |
| F208 | Fluorescent/4 | | 112.5 | 0/4 | Troffers & Panels | 0 | 50.0 | 100 | 1,500 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E209 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E210 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E212 | Troffer/T8 | 10 | 112.3 | 1 1 2 3 | Part No: Backlit EP24 | 10 | 30.0 | 300 | 1 900 |
| | Fluorescent/4 | 10 | 112.5 | 1,123 | Troffers & Panels | 10 | 50.0 | 500 | 1,500 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E212 | Vapor Tight/T8 | 1 | 56.3 | 56 | Part No: PT-VT1-4F-45W | 1 | 45.0 | 45 | 1,900 |
| | Fluorescent/4 | | | | Vapor Tight | | | | |
| 5040/5044/ | ft/32.0W/2 Lamp | | 110.0 | | | | | - 10 | 1.000 |
| E213/E214/ | Iroffer/18 | 8 | 112.3 | 898 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| EZIS/EZIO | ft/32 0W/3 Lamp | | | | | | | | |
| F219 | Troffer/T8 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1.900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | _/ |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E220 | Troffer/T8 | 12 | 112.3 | 1,348 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/3 Lamp | 0 | 112.2 | 000 | | 0 | 20.0 | 240 | 1.000 |
| EZZI | Fluorescent/A | 8 | 112.3 | 898 | Troffers & Panels | 8 | 30.0 | 240 | 1,900 |
| | ft/32.0W/3 Lamp | | | | | | | | |
| E222 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E223 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | Tt/32.0W/4 Lamp | 12 | 140.9 | 1 70.9 | Part No: Packlit EP24 | 12 | 20.0 | 260 | 1 000 |
| CZZ4 | Fluorescent/4 | 12 | 149.0 | 1,/90 | Troffers & Panels | 12 | 50.0 | 500 | 1,900 |
| | ft/32.0W/4 Lamp | | | | | | | | |
| E226 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| | Fluorescent/4 | | | | Troffers & Panels | | | | |
| | ft/32.0W/4 Lamp | | | | | | | | |



| Space Existing Fixture Opt Watts Watts Watts Proposed Solution Opt Watts Watts Hours F227 Financeserv/A Internet Michael 12 12 12 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 <th></th> <th></th> <th></th> <th></th> <th>Total</th> <th></th> <th></th> <th></th> <th>Total</th> <th>Burn</th> | | | | | Total | | | | Total | Burn |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|-----|-------|--------|---------------------------|-----|-------|-------|-------|
| E227 Troffer/T8 1.2 1.49.8 1.798 Part No Backin PP24 1.2 30.0 360 1.900 E228 Troffer/T8 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F229 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F233 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F234 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP24 1.2 30.0 360 1.900 F234 Froffer/T8 1.2 149.8 1.798 Part No: Backin FP2 | Space | Existing Fixture | Qtv | Watts | Watts | Proposed Solution | Qtv | Watts | Watts | Hours |
| Hoursecent/ Interfer/IA Function Function Function Function Function E228 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/4.9.8 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E229 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/7.9 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E230 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/7.9 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E231 Troffer/IA HURSECON/L (X22 OW/L Lump) 1/2 1/4.8 1/7.9 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E233 Troffer/IA HURSECON/L (Y22 OW/L Lump) 1/2 1/4.8 1.79 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/00 1.000 E235 Troffer/IA HURSECON/L (Y22 OW/L Lump) 1/2 1/4.8 1.706 Part No: Backlin FP24 Troffer/S & Panels 1/2 3/0.0 3/0.0 1.000 | E227 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Interaction Interaction <thinteraction< th=""> <thinteraction< th=""></thinteraction<></thinteraction<> | | , Fluorescent/4 | | | | Troffers & Panels | | | | , |
| E228 Troffer/T8 1/2 1/49.8 1/78 Part No: BackIt FP24 1/2 90.0 800 1/800 E209 Troffer/T8 Floorescent/4 1/2 1/2 1/2 30.0 300 1/800 E209 Troffer/T8 Floorescent/4 1/2 1/2 30.0 300 1/800 E300 Troffer/T8 Floorescent/4 1/2 1/2 1/2 30.0 300 1/800 E331 Troffer/T8 Floorescent/4 1/2 1/2 1/2 1/2 30.0 300 1/200 E333 Troffer/T8 Floorescent/4 1/2 1/2 1/2 1/2 30.0 300 1/200 E234 Troffer/T8 Floorescent/4 1/2 1/2 1/2 30.0 300 1/200 F1/3 Floorescent/4 1/2 1/2 1/2 1/2 30.0 300 1/200 E234 Troffer/T8 Floorescent/4 1/2 1/2 1/2 1 | | ft/32.0W/4 Lamp | | | | | | | | |
| Hourescent/4 (TV32.0W/41 amp) Image of the second sec | E228 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| E229 Index.ent/4 Index.ent/4 <thindex.ent 4<="" th=""> <thin< td=""><td></td><td>Fluorescent/4</td><td></td><td></td><td></td><td>Troffers & Panels</td><td></td><td></td><td></td><td></td></thin<></thindex.ent> | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E229 Troffer/T8 12 249.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 E230 Troffer/T8 12 12 12 12 12 30.0 360 1,900 E231 Florescent/4 12 12 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 E231 Florescent/4 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 F333 Troffer/T8 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 F333 Troffer/T8 12 149.8 1,798 Part No: Backli FP24 12 30.0 360 1,900 F335 Troffer/T8 12 149.8 1,988 Part No: Backli FP24 12 30.0 360 1,900 F335 Troffer/T8 12 149.8 1,798 Part No: Backli FP24 12 30.0 | | ft/32.0W/4 Lamp | | | | | | | | |
| Fundescentify Profession Fund F | E229 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Losz over lange Losz over | | Fluorescent/4 | | | | I rotters & Panels | | | | |
| L3.00 Hole H7A (F23.0W/A Lamp (F33.0W/A Lamp) F3.0 F3.00 | E220 | Troffor/T9 | 10 | 1/0.9 | 1 709 | Part No: Backlit ED24 | 12 | 20.0 | 260 | 1 000 |
| tr/22_0W/14_mp tools tools <tht th="" tools<=""> tools</tht> | L230 | Fluorescent/4 | 12 | 149.0 | 1,750 | Troffers & Panels | 12 | 50.0 | 300 | 1,900 |
| E231 Indfer/18 (H)2.0W/41 amp (H)2.0W/41 amp 12 149.8 1.798 Part No. Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E233 Troffer/18 (H)0rescent/4 (H/2.0W/41 amp 12 149.8 1.798 Part No. Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E234 Troffer/18 (H)0rescent/4 (H/2.0W/41 amp 12 149.8 1.798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E235 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E236 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E236 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E243 Troffer/18 (H)orescent/4 (H/2.0W/41 amp 149.8 1,988 Part No: Backlit FP24 Troffers & Panels <td< td=""><td></td><td>ft/32.0W/4 Lamp</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | ft/32.0W/4 Lamp | | | | | | | | |
| Huorssent/4 (32.00/4 Lamp) I.vi Troffer 78 (742.00/4 Lamp) 12 3.0.0 3.60 1.900 E233 Troffer/78 (Hoorssent/4 (f22.00/4 Lamp) 12 149.8 1.798 Part No. Backlit FP24 Troffer 78 Panels 12 3.0.0 3.60 1.900 E234 Troffer/78 (Hoorssent/4 (f22.00/4 Lamp) 12 149.8 1.98 Part No. Backlit FP24 Troffer 8 Panels 8 3.0.0 2.40 1.900 E235 Troffer/78 (Hoorssent/4 (f22.00/4 Lamp) 12 149.8 1.98 Part No. Backlit FP24 Troffer 8 Panels 8 3.0.0 2.40 1.900 E236 Troffer/78 (Hoorssent/4 (f23.00/4 Lamp) 12 149.8 1.798 Part No. Backlit FP24 Troffer 8 Panels 12 3.0.0 3.60 1.900 E237 Troffer/78 (Hoorssent/4 (f23.00/4 Lamp) 12 149.8 1.978 Part No. Backlit FP24 12 3.0.0 3.60 1.900 E240 Troffer/78 (Hoorssent/4 (f23.00/4 Lamp) 149.8 1.798 Part No. Backlit FP24 12 3.0.0 2.40 1.900 E244 | E231 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Intraction Intract | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E233 Profer/78 (r/32,0W/4 Lamp) 12 12 30.0 360 1,900 E234 Profer/78 (r/32,0W/4 Lamp) 12 12 30.0 360 1,900 E235 Profer/78 (r/32,0W/4 Lamp) 12 149.8 1,98 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E235 Profer/78 (r/32,0W/4 Lamp) 12 149.8 1,98 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E236 Profer/78 (r/32,0W/4 Lamp) 12 149.8 1,98 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E237 Proffer/78 (r/32,0W/4 Lamp) 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E240 Proffer/78 (r/32,0W/4 Lamp) 12 149.8 1,988 Part No: Backlit FP24 Troffers & Panels 12 30.0 240 1,900 E241 Proffer/78 (r/32,0W/4 Lamp) 8 149.8 1,988 Part No: Backlit FP24 Troffers & Panels <td></td> <td>ft/32.0W/4 Lamp</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | ft/32.0W/4 Lamp | | | | | | | | |
| Horescent/4 (732.0W/4 tamp) Image for the form of the second form of | E233 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Index. Work Lamp Index Index <thindex< th=""> Index Index</thindex<> | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| L234 Indiary is fully and fy32_0W/4 Lamp 1/2 1/96 Part No: Backlit FP24 Troffers & Panels 1/2 30.0 300 1/30 E235 Troffer/T8 Fluorescent/4 fy32_0W/4 Lamp 8 1/98 1/98 Part No: Backlit FP24 Troffers & Panels 12 30.0 240 1/900 E236 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1/98 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E237 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 240 1,900 E240 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E244 Torffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 <td>5224</td> <td>Tt/32.0W/4 Lamp</td> <td>10</td> <td>140.0</td> <td>1 700</td> <td>Dort No. Dooldit ED24</td> <td>10</td> <td>20.0</td> <td>200</td> <td>1.000</td> | 5224 | Tt/32.0W/4 Lamp | 10 | 140.0 | 1 700 | Dort No. Dooldit ED24 | 10 | 20.0 | 200 | 1.000 |
| Hole and the form of the section of the sectin of the section of the section of the section of the sect | E234 | Fluorescent/A | 12 | 149.8 | 1,798 | Troffers & Panels | 12 | 30.0 | 300 | 1,900 |
| E235 Troffer/T8 Fluorescent/4 (r/32.0W/4 lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E236 Troffer/T8 Fluorescent/4 (r/32.0W/4 lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E237 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 30.0 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/4 lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 30.0 240 1,900 E244 Droffer/T8 Fluorescent/4 fr/32.0W/4 lamp 8 149.8 1,918 Part No: Backlit FP24 Troffers & Pan | | ft/32 0W/4 Lamp | | | | | | | | |
| Fluorescent/4 (r/32.0W/1 tamp Indepart of the standard standar | E235 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| ft/32_0W/4 Lamp image image image image image image image E236 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 12 30.0 360 1,900 E237 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,900 E240 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 12 149.8 1,998 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 8 149.8 1,918 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 ft/32_0W/4 Lamp 8 1,918 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/16.0W/1 Lamp 8 149.8 1,918 Part No: Backlit FP24 Troffer K Panels 28 </td <td></td> <td>Fluorescent/4</td> <td></td> <td></td> <td></td> <td>Troffers & Panels</td> <td></td> <td></td> <td></td> <td></td> | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E236 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,909 E237 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffer & Panels 12 30.0 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 12 149.8 1,998 Part No: Backlit FP24 Troffer & Panels 12 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 8 1,918 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/Lamp 8 1,928 Part No: Backlit FP24 Troffer & Panels 8 30.0 840 | | ft/32.0W/4 Lamp | | | | | | | | |
| Fluorescent/4 fy32.0W/4 Lamp 12 149.8 1.788 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E237 Troffer/T8 Fluorescent/4 fy23.0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 12 149.8 1,798 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 1,498 Part No: Backlit FP24 Troffers & Panels 8 1.00 240 1,900 E244 Downlight/CP17 Pin Base/26.0W/1 Lamp 8 2.2.9 183 Part No: Backlit FP24 Troffers & Panels 8 3.0.0 8 | E236 | Troffer/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| Interpret in the second seco | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E237 Iroffer/18 12 149.8 1,98 Part No: Backlit FP24 12 30.0 360 1,900 E238 Troffer/T8 12 149.8 1,798 Part No: Backlit FP24 12 30.0 360 1,900 E240 Troffer/T8 8 149.8 1,798 Part No: Backlit FP24 12 30.0 240 1,900 E240 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E241 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E244 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E244 Downlight/CFLPin 8 22.9 183 Part No: Backlit FP24 8 10.0 104 1,900 E244 Downlight/CFLPin 8 22.9 183 | | ft/32.0W/4 Lamp | | | | | | | | |
| Inducts of Priors of Parties Inducts of Parties Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E238 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 12 149.8 1,988 Part No: Backlit FP24 Troffers & Panels 12 3.00 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 149.8 1,198 Part No: Backlit FP24 Troffers & Panels 8 3.00 240 1,900 E244 Torffer/T8 Fluorescent/4 fr/32.0W/4 tamp 8 22.9 183 Part No: CAN TRIM 6 WRED 8 10.0 140 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 tamp 28 149.8 999 Part No: Backlit FP24 Troffers & Panels 16 3.0.0 180 | E237 | Trotter/T8 | 12 | 149.8 | 1,798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1,900 |
| E238 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 12 149.8 1,798 fluorescent/4 fr/32_0W/4 Lamp 12 300 360 1,900 E240 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer/S & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32_0W/4 Lamp 8 1,498 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 1,498 Part No: Backlit FP24 Troffer & Panels 8 13.0 104 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: Backlit FP24 Troffer & Panels 8 13.0 104 1,900 E244 Troffer/T8 Fluorescent/4 fr/02.0W/4 Lamp 28 149.8 8/99 Part No: Backlit FP24 Troffer & Panels 8 30.0 120 1,900 | | ft/32 0W//4 Jamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/4 Lamp FL | F238 | Troffer/T8 | 12 | 149.8 | 1 798 | Part No: Backlit FP24 | 12 | 30.0 | 360 | 1 900 |
| index index </td <td>2230</td> <td>Fluorescent/4</td> <td>12</td> <td>115.0</td> <td>1,750</td> <td>Troffers & Panels</td> <td>12</td> <td>50.0</td> <td>500</td> <td>1,500</td> | 2230 | Fluorescent/4 | 12 | 115.0 | 1,750 | Troffers & Panels | 12 | 50.0 | 500 | 1,500 |
| E240 Troffer/T8 Fluorescent/4 (r/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E241 Troffer/T8 Fluorescent/4 (r/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E242 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 13.0 104 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 28 149.8 29.9 Part No: Backlit FP24 Troffer & Panels 28 30.0 180 1,900 E245 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 29.9 Part No: Backlit FP24 Troffer & Panels | | ft/32.0W/4 Lamp | | | | | | | | |
| Inducescent/4 fr/32.0W/4 Lamp In | E240 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| Image: Figure scent/4 fr/32.0W/4 Lamp | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E241 Troffer/T8 8 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 Troffer/T8 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 A 149.8 1,198 Part No: Backlit FP24 8 30.0 240 1,900 E242 Troffer/T8 8 20 149.8 1,198 Part No: CAN TRIM 6 WIRED 8 30.0 240 1,900 E244 Downlight/CFL Pin Fluorescent/4 ft/32.0W/4 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 30.0 840 1,900 E244 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 8 9.9 Part No: Backlit FP24 Troffer S& Panels 28 30.0 840 1,900 E246 Troffer/T8 fluorescent/4 ft/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffer S& Panels 6 30.0 180 1,900 E247 Troffer/T8 fluorescent/4 ft/32.0W/4 Lamp 4 149.8 1,947 Part No: Backlit FP24 Troffer S& Panels <td></td> <td>ft/32.0W/4 Lamp</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | ft/32.0W/4 Lamp | | | | | | | | |
| E242 Troffer/T8 Fluorescent/4 rf/32.0W/4 Lamp 8 8 149.8 1,198 Part No: Backlit FP24 Troffer & Panels 8 8 30.0 240 1,900 E244 Downlight/CFL Pin Base/EG.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED 8 13.0 1.00 1.00 E244 Troffer/T8 Base/EG.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED 8 13.0 1.00 1.00 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 28 149.8 149.8 Part No: Backlit FP24 Troffer & Panels 28 30.0 840 1.900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 26 149.8 899 Part No: Backlit FP24 Troffer & Panels 28 30.0 180 1.900 E247 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 599 Part No: Backlit FP24 Troffer & Panels 4 30.0 120 1.900 E248 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 149.8 1.947 Part No: Backlit FP24 Troffer & Panels 13 30.0 30.0 | E241 | Troffer/T8 | 8 | 149.8 | 1,198 | Part No: Backlit FP24 | 8 | 30.0 | 240 | 1,900 |
| E242 Troffer/T8 N 149.8 1,198 Part No: Backlit FP24 S S 30.0 240 1,900 E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 1.00 240 1,900 E244 Troffer/T8 Base/26.0W/1 Lamp 28 149.8 4,194 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 30.0 840 1,900 E244 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 28 149.8 4,194 Part No: Backlit FP24 Troffers & Panels 28 30.0 840 1,900 E246 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffers & Panels 28 30.0 180 1,900 E247 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 599 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E248 Troffer/T8 Fluorescent/4 fr/32.0W/4 Lamp 4 149.8 1,947 Part No: Backlit FP24 Troffers & Panels 13 30.0 30.0 300 1,900 E249 Troff | | Fluorescent/4 | | | | Iroffers & Panels | | | | |
| L242 Indicipited Indicipited <thindicipited< th=""> <t< td=""><td>E2/12</td><td>Troffer/T8</td><td>Q</td><td>1/0.8</td><td>1 108</td><td>Part No: Backlit EP24</td><td>Q</td><td>30.0</td><td>240</td><td>1 900</td></t<></thindicipited<> | E2/12 | Troffer/T8 | Q | 1/0.8 | 1 108 | Part No: Backlit EP24 | Q | 30.0 | 240 | 1 900 |
| ft/32.0W/4 Lamp in | | Fluorescent/4 | 0 | 145.0 | 1,150 | Troffers & Panels | 0 | 50.0 | 240 | 1,500 |
| E244 Downlight/CFL Pin Base/26.0W/1 Lamp 8 22.9 183 Part No: CAN TRIM 6 WIRED Downlight/Retrofit Kit 8 13.0 104 1,900 E244 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 28 149.8 4,194 Part No: Backlit FP24 Troffers & Panels 28 30.0 840 1,900 E246 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E247 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 6 149.8 899 Part No: Backlit FP24 Troffers & Panels 6 30.0 180 1,900 E247 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 4 149.8 599 Part No: Backlit FP24 Troffers & Panels 4 30.0 120 1,900 E248 Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp 13 149.8 1,947 Part No: Backlit FP24 Troffers & Panels 13 30.0 390 1,900 E249 Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp 4 112.3 449 Part No: Backlit FP24 Troffers & Panels 13 30.0 30.0 120 1,900 1,900 | | ft/32.0W/4 Lamp | | | | | | | | |
| Base/26.0W/1 Lamp Image: Constraint of the image: Constr | E244 | Downlight/CFL Pin | 8 | 22.9 | 183 | Part No: CAN TRIM 6 WIRED | 8 | 13.0 | 104 | 1,900 |
| E244 Troffer/T8 28 149.8 4,194 Part No: Backlit FP24 28 30.0 840 1,900 E246 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 6 30.0 120 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 4 149.8 1,947 Part No: Backlit FP24 13 30.0 30.0 390 1,900 E248 Troffer/T8 4 112.3 449 Part No: Backlit FP24 13 30.0 120 1,900 E249 Troffer/T8 Iuorescent/4 4 112.3 <td></td> <td>Base/26.0W/1 Lamp</td> <td></td> <td></td> <td></td> <td>Downlight/Retrofit Kit</td> <td></td> <td></td> <td></td> <td></td> | | Base/26.0W/1 Lamp | | | | Downlight/Retrofit Kit | | | | |
| Fluorescent/4 ft/32.0W/4 Lamp Image: second se | E244 | Troffer/T8 | 28 | 149.8 | 4,194 | Part No: Backlit FP24 | 28 | 30.0 | 840 | 1,900 |
| E246 Troffer/T8 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 4 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E249 Troffer/T8 13 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E250 Troffer/T8 102 149.8 15,280 Part No: Bac | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E240 Iffolier/18 6 149.8 899 Part No: Backlit FP24 6 30.0 180 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E247 Troffer/T8 4 149.8 599 Part No: Backlit FP24 4 30.0 120 1,900 E248 Troffer/T8 13 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E248 Troffer/T8 13 149.8 1,947 Part No: Backlit FP24 13 30.0 390 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 13 30.0 30.0 120 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E249 Troffer/T8 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 E250 Troffer/T8 102 149.8 15,280 | E246 | π/32.0W/4 Lamp | | 140.0 | 000 | Dort No. Dooklit ED24 | 6 | 20.0 | 100 | 1.000 |
| IndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenceIndeferenc | E246 | Fluoroscont/4 | 6 | 149.8 | 899 | Part No: Backlit FP24 | 6 | 30.0 | 180 | 1,900 |
| E247Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp4149.8599 fluorescent/4 ft/32.0W/4 LampPart No: Backlit FP24 Troffers & Panels430.01201,900E248Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp13149.81,947Part No: Backlit FP24 Troffers & Panels1330.03901,900E249Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E249Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280Part No: Backlit FP24 Troffers & Panels10230.03,0601,900 | | ft/32 0W/4 Lamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/4 LampImage: Second | E247 | Troffer/T8 | 4 | 149.8 | 599 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1.900 |
| ft/32.0W/4 LampindindindindindindindindE248Troffer/T81313149.81,947Part No: Backlit FP24 Troffers & Panels1330.03901,900Fluorescent/4 ft/32.0W/4 Lamp1112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E249Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280Part No: Backlit FP24 Troffers & Panels10230.03,0601,900 | | Fluorescent/4 | | | | Troffers & Panels | | - | | , - |
| E248Troffer/T813149.81,947Part No: Backlit FP24 Troffers & Panels1330.03901,900Fluorescent/4 ft/32.0W/4 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E249Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp4112.3449Part No: Backlit FP24 Troffers & Panels430.01201,900E250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280Part No: Backlit FP24 Troffers & Panels10230.03,0601,900 | | ft/32.0W/4 Lamp | | | | | | | | |
| Fluorescent/4 ft/32.0W/4 LampFluorescent/4 4InferseTroffersePanelsFluorescent/4 TrofferseAAA49 APart No: Backlit FP24 TrofferseAAA00 AA120 AA900 AE250Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp102149.815,280 Troffers & PanelsPart No: Backlit FP24 Troffers & Panels10230.03,0601,900 | E248 | Troffer/T8 | 13 | 149.8 | 1,947 | Part No: Backlit FP24 | 13 | 30.0 | 390 | 1,900 |
| It/32.0W/4 LampIt/32.0W/4 Lam | | Fluorescent/4 | | | | Troffers & Panels | | | | |
| E249 ITOTIEr/18 4 112.3 449 Part No: Backlit FP24 4 30.0 120 1,900 Fluorescent/4 ft/32.0W/3 Lamp 102 149.8 15,280 Part No: Backlit FP24 102 30.0 120 1,900 E250 Troffer/T8 102 149.8 15,280 Part No: Backlit FP24 102 30.0 3,060 1,900 Fluorescent/4 ft/32.0W/4 Lamp 102 149.8 15,280 Part No: Backlit FP24 102 30.0 3,060 1,900 | 5242 | tt/32.0W/4 Lamp | | 110 - | | D IN D IN SOOT | | 20.5 | 105 | 1.005 |
| Inderestent/4 ft/32.0W/3 LampInderestent/4 ft/32.0W/3 LampInderestent/4 ft/32.0W/4 LampInderestent/4< | E249 | Troffer/18 | 4 | 112.3 | 449 | Part No: Backlit FP24 | 4 | 30.0 | 120 | 1,900 |
| E250 Troffer/T8 102 149.8 15,280 Part No: Backlit FP24 102 30.0 3,060 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1, | | ft/32 0W/3 Lamp | | | | HUHEIS & Pallels | | | | |
| Fluorescent/4 Troffers & Panels Total (1,500) 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 | E250 | Troffer/T8 | 102 | 149.8 | 15 280 | Part No: Backlit FP24 | 102 | 30.0 | 3.060 | 1 900 |
| ft/32.0W/4 Lamp | 2230 | Fluorescent/4 | 102 | 175.0 | 10,200 | Troffers & Panels | 102 | 50.0 | 3,000 | 1,500 |
| | | , ft/32.0W/4 Lamp | | | | | | | | |



| | | | | Total | | | | Total | Burn |
|-----------|------------------------------------------------|-----|--------|--------|--------------------------------------------|-----|-------------|--------|-------|
| Space | Existing Fixture | Qty | Watts | Watts | Proposed Solution | Qty | Watts | Watts | Hours |
| E251 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 3 | 112.3 | 337 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| E252 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 8 | 149.8 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 8 | 30.0 | 240 | 1,900 |
| E253 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| E253 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 8 | 149.8 | 1,198 | Part No: Backlit FP24 Troffers & Panels | 8 | 30.0 | 240 | 1,900 |
| E254 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 2 | 112.3 | 225 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| E255/E256 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 56.3 | 113 | Part No: PT-LSFA-4F Linear | 2 | 25.0 | 50 | 1,900 |
| E257 | Troffer/T8 Fluorescent/4 ft/32.0W/3 Lamp | 5 | 112.3 | 562 | Part No: Backlit FP24 Troffers & Panels | 5 | 30.0 | 150 | 1,900 |
| E260 | Troffer/T8 Fluorescent/4 ft/32.0W/4 Lamp | 3 | 149.8 | 449 | Part No: Backlit FP24 Troffers & Panels | 3 | 30.0 | 90 | 1,900 |
| E261 | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 1 | 56.3 | 56 | Part No: PT-LSFA-4F Linear | 1 | 25.0 | 25 | 1,900 |
| Gym | Highbay/Metal Halide/400.0W/1 Lamp | 73 | 460.0 | 33,580 | Part No: UFO 150 Highbays & Lowbays | 73 | 150.0 | 10,950 | 1,900 |
| Gym | Strip/T8 Fluorescent/4 ft/32.0W/2 Lamp | 14 | 56.3 | 788 | Part No: PT-LSFA-8F Linear | 14 | 55.0 | 770 | 1,900 |
| Gym | Troffer/T8 Fluorescent/4 ft/32.0W/2 Lamp | 2 | 74.9 | 150 | Part No: Backlit FP24 Troffers & Panels | 2 | 30.0 | 60 | 1,900 |
| Total | | | 26,459 | 286,60 | | | 7,561. 0 | 79,485 | |



516 N. 8th St., Unit D De Pere WI 54115 www.ncledlighting.com

Upgrade Analysis

LED Lighting Contract

This lighting contract is made on _____, by and between NCLED and

_____. NCLED desires to provide LED lighting services to ______, and desires to obtain such services from NCLED.

1. Description of Services. LED Lighting and electrical services to begin on such a future date, that is agreed upon by both parties. NCLED will provide _______ the following services: Full Turn Key LED lighting and installation as stated in the Lighting Retrofit Proposal dated ______, as given to and presented by Jay Polena of NCLED to

2. Scope of Work. NCLED will provide Lighting Materials, Labor and Installation, Recycling, necessary tools/equipment, and complete all paperwork for eligible rebates as stated in the Lighting Retrofit Proposal dated ______, to ______for the property located at ______.

 Lighting Retrofit Proposal dated ______:

 Proposal Amount: _____

 Minus Focus on Energy Rebate Incentives: ______.

 * Net Proposal, after rebate: \$______

* To be paid as 50% down payment of \$_____ due upon receipt of invoice), and remaining balance due upon completion of installation.

3. Warranty: Five (5) year manufacturer warranty and one (1) year of Labor.

4. Projected Energy Costs: The projected energy costs and savings contained in the Lighting Retrofit Proposal dated _______ are estimates based upon data obtained during the audit of your facility and information obtained from ______ or its employees. Thus, NCLED will not be held responsible for differences that were caused as a result of inaccurate data supplied. However, if it's not due to inaccurate information supplied, NCLED will work diligently to correct the issue.

5. Compliance with Laws. NCLED shall provide services in a workmanlike manner, and comply with all applicable federal, state, and local laws and regulations.

| Lightin is \$ | g Retrofit Proposal dated , is made on | , by and between NCLED and | er rebates |
|------------------|-------------------------------------------|----------------------------|------------|
| Sign X: | (NCLED, Shelly Bekkers) | Sign X: Client | |
| Date: | | Date: | |



MBERNIER

NCLEDLL-01

| CERTIFICATE OF LIABILIT | | | | SURAN | CE | DATE | 9/7/2023 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|----------------------------------------------|
| THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. | | | | | | | |
| IMPORTANT: If the certificate ho If SUBROGATION IS WAIVED, sul this certificate does not confer right | der is an ject to the c | ADDITIONAL INSURED, the terms and conditions o | e policy(ies) must ha f the policy, certain uch endorsement(s) | ave ADDITIO policies may | NAL INSURED provisio require an endorseme | nsorb nt.As | be endorsed. |
| PRODUCER | | | | n L Salo | | | |
| Appleton - Vizance, Inc. | | | PHONE (A/C No Ext): (920) 4 | 441-0066 | FAX (A/C No) | | |
| 2501 E. Enterprise Ave. Suite 301 Appleton. WI 54913 | | | E-MAIL ADDRESS. ksalo@v | vizance.con | 1 | | |
| | | | INS | SURER(S) AFFO | RDING COVERAGE | | NAIC # |
| | | | INSURER A : Benchr | nark Insura | ince Company | | 41394 |
| INSURED | | | INSURER B : | | | | |
| NC LED LLC | | | INSURER C : | | | | |
| 516 N 8th Street | | | INSURER D : | | | | |
| De Pere, WI 54115 | | | INSURER E : | | | | |
| | | | INSURER F : | | | | |
| COVERAGES C | ERTIFICA | ATE NUMBER: | | | REVISION NUMBER: | | |
| THIS IS TO CERTIFY THAT THE POL INDICATED. NOTWITHSTANDING AN CERTIFICATE MAY BE ISSUED OR M EXCLUSIONS AND CONDITIONS OF SU | CIES OF ' REQUIRE AY PERTA CH POLICIE | INSURANCE LISTED BELOW EMENT, TERM OR CONDITIC AIN, THE INSURANCE AFFOF ES. LIMITS SHOWN MAY HAVI | AVE BEEN ISSUED ON OF ANY CONTRA RDED BY THE POLIC BEEN REDUCED BY | TO THE INSUF CT OR OTHEF IES DESCRIB PAID CLAIMS. | RED NAMED ABOVE FOR R DOCUMENT WITH RESP ED HEREIN IS SUBJECT | THE PC PECT TO TO ALL |)LICY PERIOD) WHICH THIS . THE TERMS, |
| INSR TYPE OF INSURANCE | ADDL SU | UBR POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIM | ITS | |
| A X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR | | CP5009044 | 6/1/2023 | 6/1/2024 | EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) | \$ | 1,000,000 500,000 |
| | | | | | MED EXP (Any one person) | \$ | 10,000 |
| | | | | | PERSONAL & ADV INJURY | \$ | 1,000,000 |
| GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | GENERAL AGGREGATE | \$ | 2,000,000 |
| POLICY X PRO- JECT X LOC | | | | | PRODUCTS - COMP/OP AGG | \$ | 2,000,000 |
| | | | | | COMBINED SINGLE LIMIT | \$ | 1,000,000 |
| X ANY AUTO | | CA5004030 | 6/1/2023 | 6/1/2024 | BODILY INJURY (Per person) | \$ | |
| OWNED AUTOS ONLY AUTOS HIRED ONLY NON-OWNED | | | | | BODILY INJURY (Per accident PROPERTY DAMAGE (Per accident) | :) \$ \$ | |
| | | | | | | \$ | |
| A X UMBRELLA LIAB X OCCUR | | | | | EACH OCCURRENCE | \$ | 5,000,000 |
| EXCESS LIAB CLAIMS-M | DE | UM5002518 | 6/1/2023 | 6/1/2024 | AGGREGATE | \$ | 5,000,000 |
| DED X RETENTION \$ | 0 | | | | | \$ | |
| A WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | | X PER OTH- STATUTE ER | | |
| | | WC5005091 | 6/1/2023 | 6/1/2024 | E.L. EACH ACCIDENT | \$ | 1,000,000 |
| (Mandatory in NH) | | | | | E.L. DISEASE - EA EMPLOYE | E \$ | 1,000,000 |
| DESCRIPTION OF OPERATIONS below | | CD5009044 | 6/1/2023 | 6/1/2024 | E.L. DISEASE - POLICY LIMIT | · \$ | 1,000,000 |
| A Leaseu/Kenteu | | CF 300 9044 | 0/1/2023 | 0/1/2024 | Linit | | 60,000 |
| | HICLES (AC | ORD 101, Additional Remarks Sched | Lule, may be attached if mor | re space is requir | red) | | |
| | | | SANGLEANON | | | | |

Cooperative Purchasing Connection 1001 E Mount Faith Fergus Falls, MN 56537

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Ben Man © 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

| 3/20/2017 | Printer-Friendly Form View | |
|----------------------------------|------------------------------------------------------------------------------------------------------------|---|
| Sec. 183.0202 Wis. Stats. | (iii) | |
| | State of Wisconsin Department of Financial Institutions | - |
| 1 | ARTICLES OF ORGANIZATION - LIMITED LIABILITY COMPANY | |
| Executed by the 183 of the Wisco | undersigned for the purpose of forming a Wisconsin Limited Liability Company under Chapter onsin Statutes: | |
| Article 1. | Name of the limited liability company: | 1 |
| | NCLED LLC | |
| Article 2. | The limited liability company is organized under Ch. 183 of the Wisconsin Statutes. | |
| Article 3. | Name of the initial registered agent: | |
| | Doug Schoenwalder | |
| Article 4. | Street address of the initial registered office: | |
| | 516 N. 8TH STREET | |
| | De Pere, WI 54115 | |
| | United States of America | |
| Article 5. | Management of the limited liability company shall be vested in: | |
| | A member or members | |
| Article 6. | Name and complete address of each organizer: | |
| | DOUGLAS J. SCHOENWALDER | |
| | 396 Riverdale Dr Oneida, WI 54155 | |
| | United States of America | |
| Other Information. | This document was drafted by: | |
| | Doug Schoenwalder | |
| | | |
| | Organizer Signature: | |
| | DOUGLAS J. SCHOENWALDER | |
| | Date & Time of Receipt: | |
| | 3/16/2017 8:10:57 AM | |
| https://www.wdfi.org/apps/Corpf | Formation/plugins/DomesticLLC/printerFriendly.aspx?id=571560&c=774693304 | 2 |





Cooperative Purchasing Connection Tabulation Report RFP #24.5 - Lighting Audit Services & LED Solutions Vendor: Premier Lighting, Inc.

General Comments: Thank you for the opportunity. We will work hard to grow the contract.

General Attachments: 24.5 - Pricing Schedule.xlsx 7-Project Deliverables.pdf COI Premier Lighting Inc.pdf Exhibit A LinkedInexample.docx Exhibit A - marketing plan case study.pdf Exhibit A - marketingplan sample.pdf Exhibit A - marketingPremierLighting.pdf Vendor Forms - Signatures -Premier Lighting.pdf



Vendor Questionnaire RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein is a questionnaire required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the required forms, follow these steps:

- 1. Read the document in its entirety.
- 2. Respondents must use the Vendor Questionnaire to its capacity. Attached exhibits and/or supplemental information should be included only when requested (i.e. Marketing Plan).
- 3. Complete all questions.
- 4. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Questionnaire Name of Company*".
- 5. Submit the Vendor Questionnaire, along with other required documents in Public Purchase.

The following sections will need to be completed before submission and submitted as one (1) single PDF titled "Vendor Questionnaire – Name of Company":

Company Information Qualifications & Experience Warranty Financials & Level of Support Marketing & Partnership Exceptions & Deviations References

Company Information

| Name of Company: | Premier Lighting, Inc |
|------------------------|------------------------------|
| Company Address: | 2885 Country Drive Suite 135 |
| City, State, Zip code: | St. Paul, MN 55117 |
| Website: | www.premierltg.com |
| Phone: | 651-490-0886 |

Provide the following company contacts that will be working with this anticipated contract. Include name, email, and phone number(s).

| | Name | Email | Phone |
|---------------------------------|-------------|----------------------|--------------|
| General Manager | Angie Koch | angie@premierltg.com | 651-200-3311 |
| Contract Manager | Greg Ehrich | greg@premierltg.com | 651-200-3330 |
| Sales Manager | Greg Ehrich | greg@premierltg.com | 651-200-3330 |
| Marketing Manager | Erin Sturm | erin@premierltg.com | 651-2003333 |
| Customer Service Manager | Angie Koch | angie@premierltg.com | 651-200-3311 |
| Account Manager(s) | Greg/Angie | above | above |

List who will be responsible for receiving updated participation lists.

| Name | Email | Phone |
|-------------|---------------------|--------------|
| Greg Ehrich | greg@premierltg.com | 651-200-3330 |

List who will be responsible for submitting sales reports and administrative fee payments every quarter.

| Name | Email | Phone |
|------------|----------------------|--------------|
| Angie Koch | angie@premierltg.com | 651-200-3311 |

List who will be responsible for conducting audits as requested by CPC.

| Name | Email | Phone |
|-------------|---------------------|--------------|
| Greg Ehrich | greg@premierltg.com | 651-200-3330 |

Identify any business types/classifications that your company holds. *<u>Submit documentation in PDF format to verify</u> business status (see submittal checklist).

| х | Business Type/Classification | | | | | |
|---|------------------------------|------------------------------------------|--|--|--|--|
| | 8(a) | 8(a) Qualified Business | | | | |
| | DBE | Disadvantaged Business Enterprise | | | | |
| | HUB | Historically Underutilized Business Zone | | | | |
| | MBE | Minority-Owned Business Enterprise | | | | |
| | MWBE | Minority Women-Owned Business Enterprise | | | | |
| х | SBE | Small Business Enterprise | | | | |
| | Other; list name: | | | | | |

| x | Business Type/Classification | | | | | |
|---|-----------------------------------------------|-----------------------------------|--|--|--|--|
| | SDB | Small Disadvantaged Business | | | | |
| | SDVOB Service-Disabled Veteran Owned Business | | | | | |
| | SECTION 3 | Section 3 Business Concern | | | | |
| | SSV | Sole Source Vendor | | | | |
| | VBE | Veteran-Owned Business Enterprise | | | | |
| х | WBE | Woman-Owned Business Enterprise | | | | |
| | | | | | | |

Provide a list of other contracts your organization has in place that could be accessed by our membership for your services (e.g. other consortiums, state agencies) in MN, ND, SD, IA, and WI?

Click or tap here to enter text.

None

Qualifications & Experience

1. Provide a brief background of your organization, including the year it was founded (1-2 paragraphs max.).

Premier Lighting was founded in 1991 and for 32 years has been a leading lighting supplier and turn-key retrofit company. We serve all types of commercial/industrial businesses and government accounts. Premier Lighting employs 13 people and our mission is to provide our customers with the most optimal and practical lighting systems available on the market. We serve locations nationwide with turn-key lighting retrofit projects that lower energy costs with environmentally friendly solutions. Our 30 years of success stems from staying on top of the latest and greatest in lighting technology, while giving our customers the level of care and timeliness they deserve.

2. Provide evidence of what your company is doing to remain viable in the lighting industry.

Premier Lighting is an active member of NAILD (national association of innovative lighting distributors) which consists of lighting distributors, vendors and rebate providers. Our employees participate in an online lighting course and we have our vendors is monthly to update us on the latest energy saving products.

3. Describe your company's logistics (locations, experience, production, distribution of products, warehouse inventories and delivery systems used) that should be considered in your ability to deliver on-time quality services, products, and solutions to participating agencies in MN, ND, SD, IA, and WI.

Our warehouse is located in St. Paul where we stock a variety or LED items. Our distribution manager has been with Premier for 18 years! We use SpeeDee, UPS and FedEx for our local 5 state delivery. In addition to local stock, our manufacture relationship with Keystone Technologies allows us access to their warehouses in Atlanta, Boston, Charlotte, Chicago, Cincinnati, Dallas, Denver, Detroit, Fort Lauderdale, Houston, Indianapolis, Kansas City, Los Angeles, Louisville, Memphis, Minneapolis, Nashville, New Orleans, Philadelphia, Portland, San Francisco, and Syracuse.

4. Describe the number of agencies your organization, on average, provides lighting audit services and LED solutions to. Include overall numbers and numbers specific to MN, ND, SD, IA, and WI.

Describe your customer retention as it pertains to lighting audit services and LED solutions (i.e. customers who are served that continue to be repeat customers).

Premier provides audits and solutions to, on average, 550 customers a year. The majority of our customers are in MN (400), followed by 50 per year in WI, and 25 in the bordering states.

5. Describe and specify your proposed service area (MN, ND, SD, IA, and WI) and how your company intends to meet the needs of customers in that area.

Premier Lighting will travel to any location in the 5 state area to provide audit services and install of projects. All audits will be performed by Greg and installers may vary from state to state.

6. List the agencies, if any, you would exempt from this contract (i.e. current agencies that you are currently serving that will be exempt from pricing submitted with this proposal).

City of Minneapolis, Hennepin County, Met Council, Chisago Lakes School, Centennial School District, Spring Lake Park School District

7. Describe your company's approach to lighting audits, the steps involved in an audit, and applicable LED solutions and what differentiates your company from your competitors. Describe any competitive differences regarding sales, service, installation, technology, and product line(s).

The auditing process is a thorough investigation and analysis of the existing lighting system and how it is controlled. Once all of the necessary details are gathered the appropriate solutions are determined and suggested. All we do is lighting and we are experts at it. There are many lighting companies who have only been around since LED technology took off in the last 10 years. We have been in business for over 30 years and have a deep understanding of legacy lighting technology as well as the most state-of-the-art technology. We are constantly searching for the best solutions available to ensure our customers get the optimal lighting system for their facility.

8. Describe how your company works with local utility companies to ensure energy rebates are maximized and how the funding/rebate, if approved, flows through, and applies to the project.

Premier Lighting works with all local utility companies to maximize rebate dollars for all projects. Premier can accept the rebate and have the end user pay the net amount, or the customer can pay in full and wait for the rebate. Customer preference.

9. Describe your company's approach to proposing available LED solutions to an agency resulting from a lighting audit.

We take the time to consider all solutions available and suggest and propose what we feel will be the best solution for the long run. We ensure our customers will be able to maintain and service what they have in the future when needed.

10. Describe any minimum project requirements and if any surcharges will be assessed for not meeting the minimum.

Premier Lighting does not have any surcharges. The only thing that requires minimum charges would be shipments if freight allowances of \$1000 were not met.

11. Describe how your company ensures that the LED solutions and products offered are current, energy efficient, best-value, and are customizable to agency needs.

Premier Lighting only buys from USA based companies that offers the most up to date efficient items. There are many lighting distributors that buy discontinued items at a lower price. Premier Lighting does not purchase liquidation items. If the need is for best value, we can offer pricing packages for value and premium quality items.

12. Describe your company's hierarchy or chain of command from installers to sales to management that will work with this potential contract/program.

The audit and order will start with Greg, the program manager. Once the project/audit is complete and project accepted he will work with Ben, project manager for procurement and time schedule of installation. Ben will work with the end user to communicate deliveries, installers and project communication.

13. Describe the process from order placement, including methods, to receipt of order, installation, and final walk-through (punch-list).

Once the project is accepted the end user will provide Premier Lighting with a purchase order. Premier then procures products, schedules delivery and installation. Premier project manager will close out project, schedule any punchlist items. When job is complete, Premier will process the necessary rebate paperwork and provide proper invoice.

14. Describe in detail your return or exchange program/policy(s) for purchases of LED lighting solutions and/or specific products (i.e lamps, fixtures) outside of an audit or applicable project.

Outside of an audit, we offer a complete return of items that are still in the original packaging. We will also accept returns with a restock if the packaging is missing and the product has not been used.

15. Provide a narrative of a recent project that totaled at least \$150,000 in lighting audit and LED solutions. The narrative should describe the lighting audit and results, proposed project scope, pricing costs and calculations, any fees, your company's installation/project management, and a final report and rebate summary.

All of our proposals are completed after a thorough audit is completed. Taking a specific recent example we analyzed the current lighting and after a discussion with the customer on potential solutions narrowed it down to what was best for them. In this case they had existing fluorescent lay-in troffer fixtures in great shape that were evenly spaced out and provided enough light for the task at hand, but they were wasting energy. In addition, they had highbay fixtures in the gym and wrap fixtures in the cafeteria that were in the right location, but in rough shape with missing components/broken lenses. Upon discussion with the customer we decided to go with energy-saving LED tubes that bypass the fixtures in the lay-in fixtures that were in good shape and new LED fixtures in the gym and cafeteria to improve the aesthetics and save energy. Please see the PDF for specifics on how were able to help them with a 1.6 year payback.

15a. Uploaded as a separate PDF document titled "7 - Project Deliverables" provide the supporting documentation for the project described above in #15. Supporting documentation and deliverables must include the following:

- (i) Lighting audit and results
- (ii) Proposed project scope, pricing costs and calculations, any applicable fees
- (iii) Installation/Project Management plan
- (iv) Final report and rebate summary

16. Describe any "added value" attributes being offered to participating agencies when purchasing services and products through your company. Describe any "value-adds" that are <u>exclusive</u> to the potential contract.

Premier Lighting will offer, at our location, or through an online, meeting training/education on the most recent updates on LED lighting to facilities staff on the purchased products or on general lighting, sensors, stage lighting and specialized lighting for any special need situations.

Warranty

1. Describe your warranty program, including any conditions and requirements to qualify claims procedure and overall structure.

Premier Lighting will follow the manufacture warranty that typically follows hours used, or years for the product (typically 5years)

2. Do all warranties cover all products/equipment parts and labor?

x Yes x No

If NO, describe the exceptions to coverage. Products are covered per manufacture warranty and labor is situational

3. Do warranties cover the expense of a technician's travel time and mileage to perform warranty repairs?

Yes x No

If NO, describe why travel and mileage are not covered. Not part of manufacture warranty

4. List any additional limitations or circumstances that would not be covered under your warranty? This would follow the manufacture warranty

5. List any geographic areas for which your organization cannot provide a certified technician to perform warranty repairs. How will participating agencies in these areas be provided service for warranty repair? None

Financials & Level of Support

1. Describe the percentage of your company's revenue, by category (city/county/government, K12 education, higher education) that is derived from lighting audit services and LED sales on an annual basis.

City – 1% County 1% Government – 3% K12 – 5%

2. Describe how your company works with agencies to determine payment terms, progress payments, etc. Our accounting department would work with agencies by providing progress payment requests on large projects and we allow Net30 on LED sales/

3. Describe your company's allowed methods for payment and if any fees are assessed for those methods. ACH preferred without fee. Checks are acceptable and if CC is used we charge 3.5%

4. Indicate the level of support your company will offer on this contract category.

xPricing is better than what is offered to individual educational agencies.Pricing is better than what is offered to cooperative educational agencies.Other, please describe

If OTHER, describe how the pricing submitted differs from individual entities or other purchasing consortiums: Click or tap here to enter text.

5. Describe any self-audit process/program you plan to employ to verify compliance with an anticipated contract award.

We will review monthly for invoices generated to the agencies using the Coop contract.Ric

Marketing & Partnership

1. Describe how your company will position and propose to support CPC and its participating agencies regarding program growth.

We will do a proactive marking campaign directed at CPC customers that will include outbound calling, emails, social media blasts, LinkedIn messaging and in person events. We will notify our rebate utility partners to make them aware of the program. To grow WI and Iowa we will target the rebate programs such as Access Energy and Focus on Energy.

2. Describe and submit a marketing plan that would describe, at a minimum, the following: process on how the contract will be launched to current and potential agencies, the ability to produce and maintain full-color print advertisements in camera-ready electronic format, including company logos and contact information, anticipated contract announcements, planned advertisements, industry periodicals, other direct, or indirect marketing activities promoting the awarded contract, and how the contract award will be displayed/linked on your organization's website. You can submit any support materials as Exhibit A – Marketing Plan.

We would start with an email blast to our e-newsletter database that contains over 10,000 facilities in the 5 state area as well as a targeted LinkedIn campaign. We would also do ads in any publications that would make sense to hit the correct audience and start an outbound calling campaign to spread the awareness. We attached our existing marketing materials and if awarded will add the CPC contract to all pieces.

3. Describe how your company will position this contract to CPC's participating agencies if awarded.

This will be a priority in our business and how we go to market. We will make sure anyone that can take advantage of CPC will know the benefits and ease of working with us.

4. Describe how you plan to inform and train company personnel on the contract terms and conditions, details, and promotion of the contract. Describe how your organization plans to utilize your marketing and sales staff with this anticipated contract.

We will do a kickoff meeting with everyone in the company to gain a full understanding of all it entails as well as weekly meetings to make sure we are all actively promoting it and sharing in each other's success.

Exceptions & Deviations

1. List any additional stipulations and/or requirements your company requests that are not covered in the RFP. Click or tap here to enter text.

- 2. List any exceptions your company is requesting to the terms outlined in the Technical Specifications. Respondents must include the following when requesting exceptions:
 - RFP section number and page number
 - Describe the exception
 - Explanation of why this is an issue
 - A proposed alternative to meet the needs of participating agencies and the cooperative

References

Provide three (3) references that have purchased Lighting Audit and LED Solutions <u>from your company within the last two (2) years</u>. References from the proposed service area are preferred. A contact name, phone number and email will be required. *Note, ensure your references are prepared to communicate with a representative from CPC. Failure to confirm reference of past work may affect your evaluation.

Reference #1 – Company Name Service/Product Purchased Year of Purchase Reference Contact Phone Email Richfield ISD #280 LED Area Lights and LED products 2022/2023 Dan Kretsinger 612-798-6081 dan.kretsinger@rpsmn.org

Reference #2 – Company Name Service/Product Purchased Year of Purchase Reference Contact Phone Email

Reference #3 – Company Name Service/Purchase Purchased Year of Purchase Reference Contact Phone Email Centennial School Dist #12 LED light fixtures, audits, turnkey retrofit 2020-2023 Tim Burton 763-792-6016 tburton@isd12.org

Hennepin County LED Lighting Supplies 2020-2023 Leah Hiniker 612-543-1219 leah.hiniker@hennepin.us

Vendor Forms & Signatures RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein are forms and information required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

COOPERATIVE Purchasing

CONNECTION

To submit the <u>required forms</u>, follow these steps:

- 1. Read the document in its entirety.
- 2. Complete all questions and forms.
- 3. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Forms & Signatures Name of Company*".
- 4. Submit the forms in the required format with all necessary signatures in Public Purchase.

The following sections will need to be completed prior to submission and submitted as one single PDF titled "Vendor Forms & Signatures – Name of Company":

- 1. <u>Contract Offer & Award</u>
- 2. Uniform Guidance "EDGAR" Certification Form
- 3. <u>Subcontractor Utilization Form</u>

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part I will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | Premier Lighting Inc | Date | 8.31.23 |
|--------------------------------------|------------------------|------------------|--------------------|
| Address | 2885 Country Dr Ste135 | City, State, Zip | St. Paul, MN 55117 |
| Contact Person | Greg Ehrich | Title | VP |
| | | | |
| <mark>Authorized</mark> Signature | Greg Firich | Title | VP |
| Email | greg@premierltg.com | Phone | 651-200-3330 |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | | Authorized Signature | |
|--------------------------------|--------|-------------------------|--|
| Name | | Title | |
| | | | |
| Awarded this | day of | Contract # | |
| Contract/Agreement to Commence | | | |
EDGAR Certification Form 2 CRF Part 200

REQUIRED CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS – APPENDIX II TO 2 CFR 200

The following provisions are required and apply when federal funds are expended by participating agencies for any contract resulting from this procurement process.

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Vendor Violation or Breach of Contract Terms

Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. Provisions regarding vendor default and legal remedies are included in Sections I.K.18 and I.K.19 above. Any contract award will be subject to such provisions. The remedies under the contract are in addition to any other remedies that may be available under law or in equity.

(B) Termination for Cause and for Convenience

Pursuant to Federal Rule (B) above when federal funds are expended by participating agencies, the participating agency reserves all rights to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by the Vendor, in the event the vendor fails to" (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. The participating agency reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if the participation agency believes, in its sole discretion that it is in the best interest of the participating agency to do so. The vendor will be compensated for work perform and accepted and goods accepted by the participating agency. Any award made under this procurement process is not exclusive and the participating agency reserves the right to purchase goods and services from other vendors when it is in the best interest of the participating agency.

(C) Equal Employment Opportunity

Except as otherwise provided under 41 CFR Part 60, all participating agency purchases or contract that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR Part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

(D) Davis Bacon Act

When required by Federal program legislation, Vendor agrees that, for all participating agency contracts for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, in excess of \$2,000, Vendor shall comply with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the Vendor is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a

wage determinate made by the Secretary of Labor. In addition, the Vendor shall pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Vendor must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act

Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. The requirements of the 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions that are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies, materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Right to Inventions Made Under a Contract or Agreement

If the participating agency's Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance or experiments, developmental or research work under the "funding agreement," the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act and Federal Water Pollution Control Act

Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Order 12549 and 12689)

A contract award (see 2 CFR 180.222) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), "Debarment and Suspension." SAM exclusions contain the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Vendors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by participating agencies, the vendor certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, the vendor certifies that it is compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be include in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriated tiers and that all subrecipients shall certify and disclose accordingly.

(J) Procurement of Recovered Materials

For participating agency purchases utilizing Federal funds, Vendor agrees to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act where applicable and provide such information and certifications as a participating agency may require to confirm estimates and otherwise comply. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery, and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

(K) Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment

A participating agency is prohibited from obligating or expending funds to:

- (1) Procure or obtain.
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou

Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

- (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
- (iii)Telecommunications or video surveillance equipment or services products or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(L) Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.

For the purpose of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

PROFIT AS A SEPARATE ELEMENT OF PRICE

For purchases using federal funds in excess of \$250,000, a participating agency may be required to negotiate profit as a separate element of the price. See 2 CFRR 200.323(b). When required by a participating agency, the vendor agrees to provide information and negotiate with the participating agency regarding profit as a separate element of the price for a particular purchase. However, vendor agrees that the total price, including profit, charged by the vendor to the participating agency shall not exceed the awarded pricing.

RECORD RETENTION REQUIREMENTS FOR CONTRACTS PAID FOR WITH FEDERAL FUNDS – 2 CFR § 200.333

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The vendor further certified that vendor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending maters are closed.

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that the vendor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conversation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18; Pub. L. 94- 163, 89 Stat. 871).

CERTIFICATION OF NON-COLLUSION STATEMENT

Vendor certifies under penalty of perjury that its responsible to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Pursuant to Federal Ruling, when federal funds are expended by participating agencies, the vendor hereby certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, vendor certifies compliance will all provisions, laws, acts, regulations as specifically noted above. The vendor agrees to comply with all federal, state, and local laws, rules, regulations, and ordinances, as applicable.

| Business Name | Premier Lighting, Inc | Authorized Greg Thrich Signature |
|---------------|-----------------------|-------------------------------------|
| Full Name | Greg Ehrich | Title VP |

Subcontractor Utilization Form

Instructions: List all subcontractors to be used during the performance of this contract. Submit additional forms if needed.

| Solicitation Name: Lighting Audit Services & LED Solutions | | | | | | | | | |
|------------------------------------------------------------|-------------------------------------------------------|--|--|--|--|--|--|--|--|
| Solicitation Number: | #RFP #24.5 | | | | | | | | |
| Vendor Name: | PREMIER LIGHTING INC | | | | | | | | |
| If a subcontractor will 1 | not be used, check this box: | | | | | | | | |
| Company Name: | Multitech | | | | | | | | |
| Street Address: | 2515 White Bear Ave Suite 8A-187 | | | | | | | | |
| City, State, Zip: | White Bear Lake, MN 55109 | | | | | | | | |
| Telephone: | 651-277-1181 | | | | | | | | |
| Primary Contact: | Jon Dahlstrom | | | | | | | | |
| Email Address of Cont | act: multitechelectric@live.com | | | | | | | | |
| Services to be provide | ed: | | | | | | | | |
| Electrical install s | ervices | | | | | | | | |
| | | | | | | | | | |
| Company Name: | Realm Electric | | | | | | | | |
| Street Address: | 518 ROSEDALE RD NE | | | | | | | | |
| City, State, Zip: | SPRING LAKE PARK, MN 55432 | | | | | | | | |
| Telephone: | 651-460-0122 | | | | | | | | |
| Primary Contact: | RYAN HOLIHAN | | | | | | | | |
| Email Address of Cont | ryan@realmelectricllc.com;kelsey@realmelectricllc.com | | | | | | | | |
| Services to be provide | ed: | | | | | | | | |
| Electrical install s | ervices | | | | | | | | |
| Company Name: | | | | | | | | | |
| Street Address | | | | | | | | | |
| City State 7in: | | | | | | | | | |
| Tolophono: | | | | | | | | | |
| Drive and Canto at | | | | | | | | | |
| Primary Contact: | | | | | | | | | |
| Email Address of Cont | act: | | | | | | | | |
| Services to be provide | ed: | | | | | | | | |
| | | | | | | | | | |

| es | s. |
|-----|------|
| ic. | tab |
| 2 | ple |
| G | ulti |
| S. | s m |
| Ξ | k ha |
| n | 00 |
| Ā | rkt |
| þ | M0 |
| | this |
| H. | ote |
| 50 | e n |
| Ľ | eas |
| | ł4* |
| | |

Instructions. Complete the tables below for the services your company is offerring. Please note this is an REQUIRED form.

| Responding Company's Name: | Pre | emier Lighting | | | | REQUIRED |
|--------------------------------------------------------------|--------------------------|----------------------------|-------------------|------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Lighting Assessment & Design | | | | | | |
| Description | Standard Price & Rate | Discounted Price & Rate | Member Savings | Per Diem Charges (daily rate, if any) | Mileage Charges (per mile, if any) | Notes/Comments |
| Lighting Audit & Assessment (per square foot) | \$0.05 | \$0.03 | 40.00% | \$ 150.00 | \$ 0.50 | Fee is waived if project goes through us. Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| Design Services | \$ 80.00 | \$ 60.00 | 25.00% | \$ 150.00 | \$ 0.50 | Fee is waived if project goes through us. Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| Project Management | \$ 80.00 | \$ 60.00 | 25.00% | \$ 150.00 | \$ 0.50 | Fee is waived if project goes through us. Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| | | | 0.00% | | | |
| | | | %00.0 %00.0 | | | |
| Installation [Labor] ***Prevailing wage projects/jnsta | lls are subiect to h | igher hourly rates | /charges. | Prevailing wage ra | ates change by MN | county. Particinating agencies are required to notify the |
| Vendor if prevailing wages are required (state/federal fundi | ng as part or all of | the project). | 0 | 0 | 0 | |
| Description | Standard Price & Rate | Discounted Price & Rate | Member Savings | Per Diem Charges (daily rate, if any) | Mileage Charges (per mile, if any) | Notes/Comments |
| Hourly Rate - Regular Hours | \$ 130.00 | \$ 105.00 | 19.23% | \$ 150.00 | \$ 0.65 | Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| Hourly Rate - Evening | \$ 195.00 | \$ 150.00 | 21.43% | \$ 150.00 | \$ 0.65 | Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| Hourly Rate - Weekend/Holidays | \$ 220.00 | \$ 175.00 | 21.43% | \$ 150.00 | \$ 0.65 | Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| Other Services | | | | | | |
| Description | Standard Price & Rate | Discounted Price & Rate | Member Savings | Per Diem Charges (daily rate, if any) | Mileage Charges (per mile, if any) | Notes/Comments |
| Rebate Fulfillment | \$ 100.00 | ۰ ۲ | 100.00% | | | We will do this service at no cost for members. |
| Recycling Services | \$ 0.65 | \$ 0.25 | 61.54% | | | Pricing varies by item- this is for a 4' fluorescent |
| Training | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |

2.1 - LED Category Discount

*Please note this workbook has multiple tabs.

Instructions. Complete the following schedule for all categories of product offered (by catalog, category, and/or by manufacturer) which can include sub-categories (specific lines from manufacturers) and the discount associated with that category. The form should be completed by the standards listed in the Technical Specifications. Additional rows may be added. This is a required form <u>if proposing lighting solutions</u>.

| Responding Company's Name: | Premier Lighting, Inc | | | | | |
|----------------------------------------|-----------------------|------------------------------------------------------------------|--|--|--|--|
| | | REQUIRED FORM | | | | |
| Catalog/Category/Manufacturer Grouping | Discount Offered | Comments | | | | |
| Keystone Technologies | 40-65% | Discount Varies per item. | | | | |
| Satco | 10% | Additional discount on volume | | | | |
| RAB | 10% | Additional discount on volume | | | | |
| Other Manufacturers | 10-60% | We work with hundreds of mfgs and will extend discounts with all | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

6% 2% 5% 5% 2% **OPTIONAL FORM** Additional Discount Offered Instructions. Complete the form below if your company is offering additional discounts for a one time purchase, size of project, or a group of local agencies in a geographic area combining requirements (estimate annual spend). Please note this is an optional form. **Premier Lighting** Catalog/Product/Manufacturer \$99,999.00 Keystone Satco \$50,000.00 Satco All **Dollar Amount To** \$100,000.00 unlimited \$50,000.00 unlimited **Responding Company's Name:** \$15,000.00 \$10,000.00 \$50,000.00 **Dollar Amount From**

3 - Volume Discounts

*Please note this workbook has multiple tabs.



LIGHTING AUDIT ENERGY & COST SAVINGS

| Property Address: | Centennial Schools 4757 North Road Circle Pines, MN 55014 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Presented To: | Tim Burton |
| Project: | Centennial High School |
| Report Date: | April 9, 2020 |
| Energy Company: | Xcel |
| Presented by Auditor: | Greg Ehrich, LC Premier Lighting, Inc. 2885 Country Drive Suite 135 St. Paul, MN 55117 Direct: 651-200-3330 Office: 651-490-0886 Fax: 651-490-0963 greg@premierltg.com |

Lighting Audit Details

| | | Electrical Cost |
|-----------------|------------------------|-----------------|
| Client | Centennial Schools | / Kilowatt Hr |
| Contact Person | Tim Burton | |
| Email | tburton@isd12.org | Premise # |
| Phone # | 763-792-6016 | Voltage |
| Address | 4757 North Road | EM Type |
| City, State Zip | Circle Pines, MN 55014 | |
| Project | Centennial High School | Ladder/Lift |
| ENERGY | | Applicable |
| COMPANY | Xcel | Sales Tax |
| | | |

\$

0.000%

0.12

| | Currer | it Lighting | | | Proposea Upgrade | | | | | |
|-------------------------|----------------------------|---------------|-----------------------|--------------|-----------------------------------------------------------|-----------|-------|----------------|--------|--------------------|
| Location | Current Lighting | Current Watts | # Current Fixtures | Hours / Year | Recommended Replacement | New Watts | # New | New Hours/Year | Kelvin | Installation Notes |
| 2x2 Fixtures West | 2' 2-Lamp T8 Ubend | 62 | 36 | 2600 | Ubend 6" Type B LED T8 (2 Lamps-direct line) | 36 | 36 | 2600 | 4100 | |
| 2 Lamp Fixtures West | 4' 2-Lamp T8 32 Watt | 62 | 345 | 2600 | 4' Type B 9.2w 2 Lamp LED T8 Lamp (2 Lamp-direct line) | 18.4 | 345 | 2600 | 4100 | |
| West Cafeteria | 4' 2-Lamp T8 32 Watt | 62 | 70 | 2600 | 4' Curved Wrap Fixture 5k Lumen LED Key | 40 | 70 | 2600 | 4100 | |
| 3 Lamp Fixtures West | 4' 3-Lamp T8 32 Watt | 86 | 1322 | 2600 | 4' Type B 9.2w 3 Lamp LED T8 Lamp (3 Lamp-direct line) | 27.6 | 1322 | 2600 | 4100 | Bilevel |
| 4 Lamp Fixtures West | 4' 4-Lamp T8 32 Watt | 112 | 25 | 2600 | 4' Type B 9.2w 4 Lamp LED T8 Lamp (4 Lamp-direct line) | 36.8 | 25 | 2600 | 4100 | |
| West Gym | 4' 6-Lamp T8 32 Watt | 226 | 35 | 2080 | High Bay PEL2-50MH (24K Lumen) | 159 | 35 | 2080 | 5000 | |
| 2x2 Fixtures East | 2' 2-Lamp T8 Ubend | 62 | 117 | 2600 | Ubend 6" Type B LED T8 (2 Lamps-direct line) | 36 | 117 | 2600 | 4100 | |
| 2 Lamp Fixtures East | 4' 2-Lamp T8 32 Watt | 62 | 705 | 2600 | 4' Type B 9.2w 2 Lamp LED T8 Lamp (2 Lamp-direct line) | 18.4 | 705 | 2600 | 4100 | |
| 3 Lamp Fixtures East | 4' 3-Lamp T8 32 Watt | 86 | 797 | 2600 | 4' Type B 9.2w 3 Lamp LED T8 Lamp (3 Lamp-direct line) | 27.6 | 797 | 2600 | 4100 | Bilevel |
| 4 Lamp Fixtures East | 4' 4-Lamp T8 32 Watt | 112 | 117 | 2600 | 4' Type B 9.2w 4 Lamp LED T8 Lamp (4 Lamp-direct line) | 36.8 | 117 | 2600 | 4100 | |
| East Gyms | 4' 6-Lamp T8 32 Watt | 226 | 50 | 2080 | High Bay PEL2-50MM (18K Lumen) | 123 | 50 | 2080 | 5000 | |
| East Gymnastics | 4' 6-Lamp T8 32 Watt | 226 | 12 | 2080 | High Bay PEL2-50MM (18K Lumen) | 123 | 12 | 2080 | 5000 | |
| East Kitchen | 4' 2-Lamp T12 HO (60 watt) | 142 | 2 | 2600 | Vaportight Fixture LED | 44 | 2 | 2600 | 5000 | |

WHY PREMIER LIGHTING

We recommend what we feel is the optimal and practical lighting system for your application. Please discuss with us if you are considering something other than what we proposed as we want to give you all the opportunities to have the best lighting solution for your facility's future.



<u>Service</u>

We communicate with our customers in a timely manner and make it convenient and easy for them to work with us for all of their lighting needs. We are there for you before, during and after the sale. Our goal is to be your lighting supplier for life.

Options/Lighting Knowledge

We have been in business for over 25 years and stay on top of the latest in greatest in lighting technology. Lighting is confusing so we sort through all of the practical options and provide you with the optimal recommendation for your facility.

<u>Quality</u>

Everything we provide is commercial grade and backed by warranty from reputable manufacturers.

<u>Price</u>

We competitively price everything we provide to save our customers time and provide peace of mind that they are getting the best lighting product at the best price.

Recommendation Rationale



Energy Savings Summary



MAINTENANCE SAVINGS SUMMARY:

| Savings Appreciated: | | | | |
|--------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------------|---------------------------------------------|
| Lamp Replacement \$2,823.24 | Labor Lamp Replacement \$2,584.56 | Ballast Replacement \$3,838.85 | Labor Ballast Replacement \$1,919.42 | Total Replacement Cost \$11,166.06 |
| | | AN | INUAL SAVINGS: | \$11,166.06 |



Total Savings

\$214,059

\$356,765 \$285,412

CUMULATIVE ENERGY COST & MAINTENANCE SAVINGS

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|------------------------|---------------------|-----------|-----------|-----------|-----------|
| Existing Fixtures Cost | ####### | \$206,341 | \$309,511 | \$412,681 | \$515,852 |
| Proposed Fixtures Cost | <u>\$ 31,817.39</u> | \$63,635 | \$95,452 | \$127,270 | \$159,087 |
| Total Annual Savings | \$71,353 | \$142,706 | \$214,059 | \$285,412 | \$356,765 |

Contract of Lighting Upgrades For Centennial Schools

Presented to: Tim Burton Project: Centennial High School

Date: April 09, 2020

This proposal is valid for 60 days

| Lighting Upgrades | |
|--------------------------------------------------|--------------|
| Estimated Costs | |
| Material Costs | \$118,677.50 |
| Installation (with permit and lift if necessary) | \$84,151.83 |
| Recycling | \$6,042.85 |
| Freight | \$0.00 |
| Тах | \$0.00 |
| Estimated Investment | \$208,872.18 |
| Estimated Rebates | -\$94,862.39 |
| Estimated Final Investment | \$114,009.79 |
| Annual Maintenance Savings | \$11,166.06 |
| Annual Energy Savings | \$60,186.92 |
| Estimated Annual Savings | \$71,352.99 |
| Estimated Payback in Years | 1.60 |
| Estimated Return on Investment | 63% |
| Estimated Energy Reduction | 65% |

The amount of Premier Lighting's quote does not include the furnishing of any materials or labor required to repair or correct any pre-existing power, electrical wiring, dimming and control issues. In addition this contract is only for the items on the Lighting Audit Details Page. We cannot guarantee the counts in this proposal are 100% accurate so any additional or less material/labor will be added to or deducted from the project cost. Typical lead time to completion is 6-8 weeks from approval. All products are backed by the manufacturer warranty which does not include labor-only material. If Premier Lighting performs the initial install we will cover labor on warranties for 60 days after job completion. If you choose, you may purchase an extended labor warranty priced per project. Premier Lighting's terms are 50% down, balance due upon completion. With credit approval, due upon completion.

This Agreement shall not be binding upon either party if not accepted within sixty (60) days from the date of this Agreement.

Customer is taking the rebate.

Premier Lighting is taking the rebate.

By signing this contract I agree I have read and agree to the terms above.

PROPOSAL ACCEPTED AND INSTALLATION AUTHORIZED BY:

I agree to this project and the terms laid out in this proposal.

Customer Signature

Tim Burton Customer Name Date

Title

SALES PERSON SIGNATURE

Greg Ehrich, LC SALES PERSON NAME 4/9/2020 PROPOSAL DATE



Before

After



PREMIER

Problem

Braemar Arena is an indoor ice rink facility located in Edina, Minnesota. The facility has three, regulation sized ice sheets and is home to local skating clubs and hockey teams. Built in 1965, the facility had undergone many renovations; but, it had been a while since they upgraded their fluorescent lighting. The fluorescent bulbs provided adequate light, but they degraded over the years and replacements were getting costly. Braemar Arena wanted a more efficient lighting solution that they could have more control over.

Solution

With the advancement in LED lighting technology, we saw the perfect opportunity to upgrade the fluorescent fixtures in the facility to LED. We sorted through and analyzed several fixtures and layout options before ultimately deciding on an integrated LED high bay fixture with a state of the art lighting control system. This system reimagines wireless lighting control and can be controlled from a computer or a phone while providing more adequate light and significant energy savings.

Result

The new LED fixtures reduced energy consumption in the facility by 35% and increased lighting levels by over 30%. The LED fixture has a rated life of over 100,000 hours compared to 20,000 hours for the fluorescent system. Each fixture can now be individually controlled to dim to any level from a phone or computer system from anywhere. Braemar Arena already has a reputation as a premier ice arena in the area; with state-of-the-art LED lighting, they are now in a class of their own.

Case Study: Braemar Hockey Rink LED Retrofit

About Us

Premier Lighting provides highquality, commercial-grade lighting products, installation, and retrofits. Our mission is to provide our customers with the most optimal and practical lighting solution for their facility. From quality products to turnkey solutions, we have your lighting needs covered.

Services Offered

- Lighting Products: fixtures, bulbs, ballasts, lenses, sockets, and parts
- Turnkey Lighting Retrofits
- Service Work
- Energy Audits
- Layouts
- Photometrics

Connecting Light To You

(651) 490-0886 | www.premierltg.com | 2885 Country Drive 135, Little Canada, MN 55117



True End-To-End LED Service



The LED market is completely saturated. What does this mean for you? Well, you do have a variety of choices: from big box providers to electrical contractors. But how do you know you will be getting a top-quality LED solution?

Premier Lighting offers a truly comprehensive service, from competitive pricing on the right equipment for your needs to turn-key installation and maintenance. In other words, we're not just a supplier; we're a long-term partner.

Our Services

Lighting Energy Audits

Lighting Design

Recycling

Commercial-Grade
 Lighting Product Supply

- Lighting Installation
 and Maintenance
- Lighting Consultation



"We go out for multiple bids and time and again, Premier has come through with the best bid. They're not just a low-cost provider; the service has always been there: they give us a quote and they finish the project on budget and on time."

- Jim Schlundt, First Industrial, Marketing/Leasing Director

Connecting Light To You

(651) 490-0886 | www.premierltg.com | 2885 Country Drive 135, Little Canada, MN 55117



Why Choose Premier Lighting?



Who We Are

Our mission is to provide our customers with the most optimal and practical lighting systems available on the market. We serve locations nationwide with turn-key lighting retrofit projects that lower energy costs with environmentally friendly solutions.

Our 25 years of success stems from staying on top of the latest and greatest in lighting technology, while giving our customers the level of care and timeliness they deserve.



Lighting rebate processor for the state of Minnesota.

OVER \$1 MILLION PER YEAR IN REBATES PROCESSED.

Here's what our clients have to say:

"The service has always been there: they give us a quote and they finish the project on budget and on time."

"Premier is quick to respond to our needs, and they consistently provide our facilities with brighter lighting and more energy-efficient equipment."

"Since we did the lighting upgrades with Premier, people have really noticed a difference. We're saving money and increasing safety"

"Premier has been great to work with: their pricing has held up, and they provide high-quality products and the best service possible"



Our Services

- LED Upgrades
- Turn-Key Lighting Retrofits
- Lighting Products – Fixtures, bulbs, ballasts, lenses, sockets, and parts
- Service Work
- Energy Audits
- Layouts
- Photometrics
- In-house Rebate Processing
 - 5 to 10-year Warranties

Our goal is to be your lighting supplier for life. With Premier Lighting you receive:

Service - We communicate with our customers in a timely manner and turn around most quotes within 24 hours. We are there for you before, during, and after the sale.

Options/Lighting Knowledge - Lighting is confusing, so we sort through all the practical options and provide you with the optimal recommendation for your facility.

Quality – Everything we provide is commercial grade and backed by warranties from reputable manufacturers.

Price - We competitively price everything we offer to save our customers time and to ensure peace of mind that they are getting the best lighting product at the best price.

2885 Country Drive, Suite 135, St. Paul, Minnesota 55117 Ph: 651.490.0886 | Toll-Free: 800.536.4255



Premier Lighting IncPremier Lighting Inc581 followers581 followers 2mo • 2mo •

Don't miss out on adding value to your building with <u>#evcharging</u> Activate to view larger image,



Electric Vehicles Are More Energy Efficient

Let's discuss how to provide Electric Vehicle chargers for your parking garage, lots or residence.

Call today for free consultation 651-490-0886



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 9/5/2023

CASSAN

PREMLIG-01

| T C B R | HIS CERTIFICATE IS ISSUED AS A ERTIFICATE DOES NOT AFFIRMATI BELOW. THIS CERTIFICATE OF INSI REPRESENTATIVE OR PRODUCER, AN | MA1 VEL JRAN ND TH | TTER Y OF NCE HE C | R OF INFORMATION ONLY R NEGATIVELY AMEND, E DOES NOT CONSTITUTE ERTIFICATE HOLDER. | Y AND CONFERS EXTEND OR ALT A CONTRACT | NO RIGHTS ER THE CO BETWEEN 1 | UPON THE CERTIF VERAGE AFFORDE THE ISSUING INSU | FICATE HO ED BY TH RER(S), A | LDER. THIS E POLICIES UTHORIZED |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|------------------------------------|-----------------------------------------|
| li lf | MPORTANT: If the certificate holder SUBROGATION IS WAIVED, subject | t to | n AD the | DITIONAL INSURED, the p terms and conditions of th | olicy(ies) must ha e policy, certain b endorsement(s | ave ADDITIO policies may | NAL INSURED provi require an endorser | isions or be ment. A sta | endorsed. atement on |
| U DDC | | Jule | Cert | | CONTACT |). | | | |
| Ste | in Agency Inc | | | P F | NAME: PHONE (651) (| 257-1042 | FAX | (651) | 257-3937 |
| 128 | 00 Lake Blvd | | | (| A/C, No, Ext): | | (A/C, | , No): (001) / | 201 0001 |
| Lin | dstrom, MN 55045 | | | 7 | ADDRESS: | | | | 1 |
| | | | | | IN | SURER(S) AFFO | RDING COVERAGE | | NAIC # |
| | | | | 1 | NSURER A : The Ha | nover Insu | rance Company | | |
| INSU | JRED | | | 1 | INSURER B : | | | | |
| | Premier Lighting Inc | | | 1 | INSURER C : | | | | |
| | 2885 Country Drive #135 | | | 1 | INSURER D : | | | | |
| | Little Canada, MN 55117 | | | 1 | NSURER E : | | | | |
| | | | | | INSURER F : | | | | |
| 6 | | | • • • • | | | | | D . | 1 |
| T IN E INSR | HIS IS TO CERTIFY THAT THE POLICIES INDICATED. NOTWITHSTANDING ANY REC ERTIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH F | S OF QUIRE PERT POLIC | INSU MEN AIN, IES. SUBR | JRANCE LISTED BELOW HAV IT, TERM OR CONDITION OF THE INSURANCE AFFORDE LIMITS SHOWN MAY HAVE BE | /E BEEN ISSUED T ANY CONTRACT D BY THE POLICII EN REDUCED BY P POLICY EFF | O THE INSUR OR OTHER I ES DESCRIBE PAID CLAIMS. | ED NAMED ABOVE FC DOCUMENT WITH RES D HEREIN IS SUBJEC | OR THE PO SPECT TO CT TO ALL | LICY PERIOD WHICH THIS THE TERMS, |
| | | INSD | WVD | FOLICT NUMBER | (MM/DD/YYYY) | (MM/DD/YYYY) | | | 1 000 000 |
| | | | | ODVU44625400 | 4/4/0000 | 4/4/0004 | EACH OCCURRENCE DAMAGE TO RENTED | \$ | 300 000 |
| | | | | OBXH14625102 | 1/1/2023 | 1/1/2024 | PREMISES (Ea occurrence | e) \$ | 5.000 |
| | | | | | | | MED EXP (Any one person) |) \$ | 1 000 000 |
| | | | | | | | PERSONAL & ADV INJUR | Y \$ | 2,000,000 |
| | | | | | | | GENERAL AGGREGATE | \$ | 2,000,000 |
| | | | | | | | PRODUCTS - COMP/OP A | NGG \$ | 2,000,000 |
| | OTHER: | | | | | | | \$ | |
| Α | AUTOMOBILE LIABILITY | | | | | | (Ea accident) | \$ | 1,000,000 |
| | X ANY AUTO | | | AWXH14469702 | 1/1/2023 | 1/1/2024 | BODILY INJURY (Per perso | on) \$ | |
| | AUTOS ONLY SCHEDULED | | | | | | BODILY INJURY (Per accid | dent) \$ | |
| | X HIRED X NON-OWNED AUTOS ONLY | | | | | | (Per accident) | \$ | |
| | | | | | | | | \$ | |
| Α | X UMBRELLA LIAB X OCCUR | | | | | | EACH OCCURRENCE | \$ | 2,000,000 |
| | EXCESS LIAB CLAIMS-MADE | | | OBXH14625102 | 1/1/2023 | 1/1/2024 | AGGREGATE | \$ | 2,000,000 |
| | DED X RETENTION \$ 0 | | | | | | | \$ | |
| Α | WORKERS COMPENSATION | | | | | | X PER OT STATUTE ER | TH- 2 | - |
| | ANY PROPRIETOR/PARTNER/EXECUTIVE | | | W2X H146244 02 | 1/1/2023 | 1/1/2024 | E.L. EACH ACCIDENT | \$ | 1,000,000 |
| | (Mandatory in NH) | N/A | | | | | E.L. DISEASE - EA EMPLO | DYEE \$ | 1,000,000 |
| | If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | | E.L. DISEASE - POLICY LI | IMIT \$ | 1,000,000 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| DES | CRIPTION OF OPERATIONS / LOCATIONS / VEHICI | ES (A | COR | 0 101. Additional Remarks Schedule | . may be attached if mor | e space is requir | ed) | 1 | |
| 2-0 | | | | , raamena noma ko oonodule, | , | - opaso is requir | , | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ~- | | | | | | | | | |
| CE | | | | (| JANGELLATION | | | | |
| | Cooperative Purchasing Con 1001 E Mount Faith Forgue Follo | nect | ion | | SHOULD ANY OF THE EXPIRATION ACCORDANCE WI | THE ABOVE D N DATE THI TH THE POLIC | ESCRIBED POLICIES E EREOF, NOTICE WIL CY PROVISIONS. | BE CANCEL LL BE DE | LED BEFORE LIVERED IN |
| | Fergus Falls, MN 56537 | | | Δ | UTHORIZED REPRESE | NTATIVE | | | |
| | | | | , , , , , , , , , , , , , , , , , , , | NON LAN | 1/1. | | | |
| | | | | | WIN W | 1. Lad | | | |

ACORD 25 (2016/03)

© 1988-2015 ACORD CORPORATION. All rights reserved. The ACORD name and logo are registered marks of ACORD





Cooperative Purchasing Connection Tabulation Report RFP #24.5 - Lighting Audit Services & LED Solutions Vendor: The Retrofit Companies

General Comments: Thank you in advance for your review of these submittals!

General Attachments: Certificate of Insurance (COI) - The Retrofit Companies, Inc..pdf Exhibit A Marketing Plan - The Retrofit Companies, Inc..pdf Forms - Signatures - The Retrofit Companies, Inc..pdf Pricing Schedule - The Retrofit Companies, Inc..xlsx Project Deliverables - The Retrofit Companies, Inc..pdf Questionnaire - The Retrofit Companies, Inc..pdf



Vendor Questionnaire RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein is a questionnaire required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the required forms, follow these steps:

- 1. Read the document in its entirety.
- 2. Respondents must use the Vendor Questionnaire to its capacity. Attached exhibits and/or supplemental information should be included only when requested (i.e. Marketing Plan).
- 3. Complete all questions.
- 4. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Questionnaire Name of Company*".
- 5. Submit the Vendor Questionnaire, along with other required documents in Public Purchase.

The following sections will need to be completed before submission and submitted as one (1) single PDF titled "Vendor Questionnaire – Name of Company":

Company Information Qualifications & Experience Warranty Financials & Level of Support Marketing & Partnership Exceptions & Deviations References

Company Information

| Name of Company: | The Retrofit Companies, Inc. (dba Retrofit Lighting & Design) |
|------------------------|---------------------------------------------------------------|
| Company Address: | 1010 Hoffman Drive Suite A |
| City, State, Zip code: | Owatonna, MN 55060 |
| Website: | www.retrofitcompanies.com |
| Phone: | (800) 795-1230 |

Provide the following company contacts that will be working with this anticipated contract. Include name, email, and phone number(s).

| | Name | Email | Phone |
|--------------------|----------------|--------------------------------|----------------|
| General Manager | Jake Andrist | jandrist@retrofitcompanies.com | (507) 363-0656 |
| Contract Manager | Jake Andrist | jandrist@retrofitcompanies.com | (507) 363-0656 |
| Sales Manager | Jake Andrist | jandrist@retrofitcompanies.com | (507) 363-0656 |
| Marketing Manager | Madison Keller | manonick@retrofitcompanies.com | (320) 241-8931 |
| Customer Service | Jake Andrist | jandrist@retrofitcompanies.com | (507) 363-0656 |
| Manager | | | |
| Account Manager(s) | Adam Wacholz | awacholz@retrofitcompanies.com | (651) 279-0325 |

List who will be responsible for receiving updated participation lists.

| Name | Email | Phone |
|--------------|--------------------------------|----------------|
| Jake Andrist | jandrist@retrofitcompanies.com | (507) 363-0656 |

List who will be responsible for submitting sales reports and administrative fee payments every quarter.

| Name | Email | Phone |
|--------------|--------------------------------|----------------|
| Jake Andrist | jandrist@retrofitcompanies.com | (507) 363-0656 |

List who will be responsible for conducting audits as requested by CPC.

| Name | Email | Phone |
|--------------|--------------------------------|----------------|
| Jake Andrist | jandrist@retrofitcompanies.com | (507) 363-0656 |

Identify any business types/classifications that your company holds. *<u>Submit documentation in PDF format to verify</u> business status (see submittal checklist).

| х | Business Type/Classification | | |
|---|----------------------------------|------------------------------------------|--|
| | 8(a) | 8(a) Qualified Business | |
| Х | DBE | Disadvantaged Business Enterprise | |
| | HUB | Historically Underutilized Business Zone | |
| | MBE | Minority-Owned Business Enterprise | |
| | MWBE | Minority Women-Owned Business Enterprise | |
| Х | SBE | Small Business Enterprise | |
| Х | Other; list name: WOSB, CERT, TG | | |

| X | Business Type/Classification | |
|---|------------------------------|-----------------------------------------|
| | SDB | Small Disadvantaged Business |
| | SDVOB | Service-Disabled Veteran Owned Business |
| | SECTION 3 | Section 3 Business Concern |
| | SSV | Sole Source Vendor |
| | VBE | Veteran-Owned Business Enterprise |
| Х | WBE | Woman-Owned Business Enterprise |
| | | |

Provide a list of other contracts your organization has in place that could be accessed by our membership for your services (e.g. other consortiums, state agencies) in MN, ND, SD, IA, and WI?

*For our Recycling division

Cooperative Purchasing Connection (CPC) #20.10 Recycling Services Contract

State of Iowa Contract 19041D – Lamps, Ballasts, Computer Components, and other Recyclables.

Qualifications & Experience

1. Provide a brief background of your organization, including the year it was founded (1-2 paragraphs max.).

The Retrofit Companies, Inc. was founded in 1992, in Owatonna, MN. We are a woman-owned, small, family business with locations in Owatonna, MN and Little Canada, MN.

Starting out as "Lighting Retrofit" we specialized in energy-efficient lighting upgrades. We quickly added "Retrofit Electric" to the offering, as projects demanded electrical work. In the mid-90's, regulations were put on the proper disposal and recycling of fluorescent lamps and PCB ballasts, (common lighting technology back then), so we acquired a recycling business, and created "Retrofit Environmental". Later, we added "Retrofit Supply" to the mix to offer affordable access to lamps, ballasts, and light fixtures. Now, we are The Retrofit Companies, Inc., still offering our lighting expertise, in addition to electrical and environmental services.

2. Provide evidence of what your company is doing to remain viable in the lighting industry.

Our lighting division focuses on the proper lighting design of projects. We have a team of lighting auditors and project developers that specify LED solutions to meet our customers' goals for energy savings and lighting performance.

We are vendor-neutral and have great relationships with most lighting manufacturers and distributors. This allows us to take advantage of various ongoing training and available resources. Our team engages in ongoing training on lighting technology, lighting requirements, and lighting controls. We hold certifications for LC, CLCP, and CLEP, which keep us informed and in front of lighting trends and changes in the industry.

We are also part of multiple national lighting industry organizations like <u>NALMCO</u>, <u>IES</u>, <u>LCA</u>, and the Department of Energy's <u>Integrated Lighting Campaign</u>.

3. Describe your company's logistics (locations, experience, production, distribution of products, warehouse inventories and delivery systems used) that should be considered in your ability to deliver on-time quality services, products, and solutions to participating agencies in MN, ND, SD, IA, and WI.

Our primary lighting warehouse is in Owatonna, MN, however we do not stock very much project material there. If we do, it would be based on where the product is being installed and who is installing. In our experience, with the continuing evolution of LED technology it is not a good idea to stock material. Many versions become obsolete or less efficient quickly. By stocking material, you also eliminate your ability to agnostically specify the right solution for the job. We want to specify the products that will perform to meet the goals of the project, rather than set the goal of the project to what we have in our warehouse.

We order lighting project material through multiple channels, including directly from many manufacturers and distribution. Our primary distributor is Rexel Energy Solutions, who covers all 50 states, including the service areas mentioned above. We leverage their network of multiple warehouses to source products faster, whenever possible, and to stage products as needed. We also use 3rd party logistics companies to accept and verify material delivery and combine the materials for shipment to the job site once all the product is received.

After we source material, we have many installation partners, and are always looking to work with local electrical contractors in partnership for our project installations. These contractors are usually already working in the district and/or the municipality and within the community. We often ask them to receive the project material and verify that all products are received before starting the project. Some have the space to do so, some do not. Our customers also often receive and store materials at the project site.

Our various sources allow us to have options to speed up ship dates, however, there is typically a 4–8-week lead time on full project material lists. (Some products are readily available, and some dates are further out.) We always prefer to receive all products before mobilizing the installation to ensure an organized installation and an efficient timeline for project completion.

^{4.} Describe the number of agencies your organization, on average, provides lighting audit services and LED solutions to. Include overall numbers and numbers specific to MN, ND, SD, IA, and WI.

Describe your customer retention as it pertains to lighting audit services and LED solutions (i.e., customers who are served that continue to be repeat customers).

Much of our business is focused on education and municipalities. Year to date, in 2023, we have audited and developed over 70 projects at educational institutions (K12, College, Public and Private), and over 60 projects at City/County municipalities, (buildings like Ice Arenas, Rec Centers, Park & Rec, Public Works, etc.), in Minnesota. We have also looked at a few Non-profit organization facilities like Boys & Girls Clubs and Habitat for Humanity.

Wisconsin, Iowa, and North and South Dakota have not been our primary focus, so we have only looked at a couple of projects in WI. Our company growth goals do include more sales focus in WI, IA, ND, and SD.

Our customer retention has been good, however, that depends on how many buildings they manage. If they only have one building, and we upgrade the lighting, there is no more lighting to be done for a long time. Through the 31 years though, we have upgraded many buildings multiple times through various lighting technologies - from HID/HPS lighting technology, to Fluorescent, then to LED.

If they have multiple buildings, we usually recommend that they have us audit all the buildings to help them prioritize, plan and budget for upgrades. Then, we find that when their budget allows, we are asked to complete the upgrade. This can happen over the course of years in many cases.

Some customers have asked us to upgrade entire districts, or a list of prioritized buildings throughout a city and we have successfully audited, developed, and implemented projects at multiple buildings as one single project.

5. Describe and specify your proposed service area (MN, ND, SD, IA, and WI) and how your company intends to meet the needs of customers in that area.

As a company we are currently auditing, developing, and installing projects across the country. We are based in Minnesota and have our own team of project auditors/developers, project managers, and installers that would primarily service the needs in the Upper Midwest, (MN, IA, WI, ND and SD).

We are a small Minnesota business, so while we own our projects from concept to completion no matter where they are, we do rely on our vetted partners to help support us. This support can come from our manufacturing and distribution channels, in the form of project audit and development support or from our labor partners accepting project materials and installing the project. All projects that we sell are always The Retrofit Companies' project, always giving our customers one point of contact at our company.

- 6. List the agencies, if any, you would exempt from this contract (i.e., current agencies that you are currently serving that will be exempt from pricing submitted with this proposal).
- N/A
- 7. Describe your company's approach to lighting audits, the steps involved in an audit, and applicable LED solutions and what differentiates your company from your competitors. Describe any competitive differences regarding sales, service, installation, technology, and product line(s).
 - 1. **Consultation** Our sales rep meets with the prospective customer to discuss the project, including what LED they have done, what their experience has been with LED, and what their priorities are, focusing on lighting performance, functionality (like controls), and energy savings.

At this point we will determine if the customer has any quotes on the project and, if so, the level of detail they have. If they have a quote, we will discuss what project details they have and if it is enough for them to feel confident in that scope of work. If they are just looking for a secondary quote, we will discuss whether or not we will bid on the project based on the scope of work they have. This situation is not ideal, but if they are just looking for a number, we want to try to support them, however, it's difficult to show our value in just a number.

The best scenario is when we propose our paid Lighting Energy Study. With the paid study, we do the audit and development, we guarantee that project scope to be accurate, and we guarantee no change orders on the project.

The deliverables of this paid study include the full project scope of work, the material list and specification sheets, and energy analysis. With these deliverables, the customer can use that scope of work to get apples-to-apples bids to compare quotes on the exact same project. Without the scope of work from the paid study, they are stuck guessing on which project is a better deal.

Ideally, they understand that the CPC contract allows them to simplify their purchasing process and requirement for multiple bids, but that is not always the case.

Once project goals and path are established, and if they want to move forward with the Lighting Energy Study, we collect building layouts to use in our audit software (Snapcount), hours of operation/lighting "burn hours", to determine how much the lights are currently one, as well as at least (3) utility bills to use in our energy analysis.

*Capturing this level of detail from the customer is key to understanding where they are, where they've been and where they want to go, regarding the project. It also ensures that we are accurately calculating energy savings. Limiting the number of assumptions and guaranteeing our projects to have no change orders is a big differentiator for us.

2. **Site Audit/Project Development** - Our development team will meet with our customer, discussing in more detail to narrow down the proper solutions. At this stage, we try to dig into how the current lighting operates, how they want the lighting system to operate, and the budget, to know what level of project solutions they need/want.

This is a very educational process for the customer. We want them to make an informed decision, so we discuss the differences between the options like solution longevity, aesthetics, controllability, etc. These discussions are typically a "Good" (LED lamp), "Better" (LED fixture/retrofit kit), "Best" (LED fixtures/retrofit kit with controls) dialogue and the costs/savings, pros/cons associated with each.

*Educating our customers is a big differentiator for us. We can specify whatever they want since we are not stuck with only warehouse stock, so we need to dial in what they want for performance and what their budget will afford. We typically don't get those answers unless we provide them context for reference. This also helps build trust and rapport through the process.

3. Proposal – Once the physical site audit is complete, the project developer will put the project together with the solutions that best meet the goals of the customer.

*We are vendor-neutral, which many contractors are not, so we specify the right solution to meet the goal, not set the goal to meet the capabilities of our solution, another key differentiator.

This project proposal will include an energy analysis of current vs. existing energy usage, and energy savings based on the details collected earlier in the process. It will also include the project solutions, price, estimated utility rebates, payback, ROI, etc. The sales rep will coordinate a meeting with all necessary contacts to review the project proposal and determine the next steps and timelines.

*The amount of detail that goes into the project development, our confidence in our work, and relationship with the customer is our biggest differentiator.

4. Describe how your company works with local utility companies to ensure energy rebates are maximized and how the funding/rebate, if approved, flows through, and applies to the project.

Every rebate program is different; some offer prescriptive rebates, some are custom, some projects qualify for both. Lately, there have been bonus level rebates, but the programs change annually, so we never know for sure if there will be rebates next year. Lighting controls often add another layer of incentive. Also, certain products that meet certain standards like DLC/DLC Premium get more rebate than not meeting that standard.

We have Sale Support staff that reviews rebate programs on every job to ensure we are maximizing the rebate amount on all projects. This includes our project developers that specify products to not only meet the project goals, but also get the most rebate.

We typically will estimate the rebate on our initial proposals, then, based on timing of the decision to move forward and rebate programs at that time, we will refresh and get pre-approval.

When allowed, we try to take the rebate on behalf of the customer, so they do not need to cashflow the difference until the job is completed. Not all utility companies allow this.

We fill out all rebate paperwork, collect signatures from our customers, and submit everything on the customer's behalf. All they need to do is review the paperwork and sign it.

5. Describe your company's approach to proposing available LED solutions to an agency resulting from a lighting audit.

We will specify LED solutions to meet the project goals first, taking a vendor-neutral approach, specifying the solution that meets the customer's requirements and to maximize performance, energy savings, and rebates.

6. Describe any minimum project requirements and if any surcharges will be assessed for not meeting the minimum.

If the agency is not willing to pay for the Lighting Energy Study and have our team audit and develop the project, we will do our best to support them, however, if a site visit is needed, mileage and per diem fees apply.

7. Describe how your company ensures that the LED solutions and products offered are current, energy efficient, best-value, and are customizable to agency needs.

We do not stock any material for projects, so all LED solutions specified are the newest, most efficient versions.

Many manufacturers now offer "selectable" LED solutions that are most readily available and offer versatility on projects. Most every brand has them, so it is reducing the number of products out there. For example, you can often get most fixture types with some switches on the fixture that you can select Lumen Output (the amount of light coming out of the fixture) and Color Temperature of the light. These are great when replacing fixtures. But not an option on all fixture types currently.

Retrofit kits allow you to upgrade a light fixture, with LED components that are the same as a new fixture, without touching the existing housing. This helps when the ceiling tile is possibly asbestos, and areas where paint may be needed after a fixture is replaced. Retrofit kits are also installed in about half the time that a new fixture does, reducing the cost of labor.

Other details are often required to light a facility properly. When light levels are an issue, before and after photometric layouts may be needed to ensure we are meeting requirements. When controls are desired on a project we can not only specify, but also commission the lighting control system and educate the customer on how to use the controls.

8. Describe your company's hierarchy or chain of command from installers to sales to management that will work with this potential contract/program.

Installers - either Retrofit Electric staff or subcontractor partner; responsible for installation, permits, and lifts/equipment.

Project Manager – manage all things for the project including material receiving and management, coordinating pre-project walk throughs and planning, project kick-off, installation and crew, project change orders/adders, and punch-list items.

Sales Rep – responsible for overseeing the project from afar, ensuring the project progresses through the process and all customer expectations are being met.

Procurement – order all material and track all shipments, updating the sales rep and project manager.

Sales Support – estimates and applies for all utility rebates. Ensure all pre-approvals are submitted on time and that the applications get filled out, executed, and submitted. Also, follows up on project rebates after project completion and puts together project As-Built deliverables. Assists in project warranty support.

Project Developer – audit the facility and develop the project scope of work. Collaborate with Sales rep on front end and Project manager on any changes in scope, spec, requests, etc.

Director – Oversee that the project progresses as expected and that all people are executing their part to ensure a seamless installation and that all expectations are met/exceeded.

Finance – sends initial and final invoices, verifies changes and adders are accounted for and billed (or not billed) as planned.

^{9.} Describe the process from order placement, including methods, to receipt of order, installation, and final walk-through (punch-list).

- Project is sold/terms agreed to customer signs the quote and initial invoice is sent.
- The customer pays the initial invoice and project material is ordered.
- Project Manager secures material delivery site and labor installation and connects with customer to discuss project kick-off.
- Project manager walks the site and prepares plan with the customer for installation and timelines.
- Marketing attends the walk- through to capture pre-project pictures and video. (If applicable)
- All project material arrives, and project installation begins.
- Project manager meets with installation foreman weekly for updates.
- Project is installed, final walk-through scheduled.
- Project manager meets with customers, ensures all project deliverables are met in accordance with the plan and expectations.
- Customer agrees that all expectations are met. If they are not, punch-list is generated and material/labor direction determined, and work completed.
- Final rebate application signed/submitted.
- Final invoice is sent to the customer.
- Project As-Builts are provided to customers with warranty information.
- The sales rep checks-in with the customer to ensure that the customer is 100% satisfied, and if so, asks if they would be interested in a project case study/testimonial video, would like to complete customer survey, etc.
- (If applicable) Sales and Marketing meet with the customer to discuss the project goals and execution on video to share with other people in similar roles.
- **10.** Describe in detail your return or exchange program/policy(s) for purchases of LED lighting solutions and/or specific products (i.e lamps, fixtures) outside of an audit or applicable project.

Some products can be returned, and some cannot. Typically, it depends on the product. Custom items cannot be returned, for example, a LED fixtures that has a control sensor/node added vs. stock (commodity) products, like LED bulbs typically can. All product returns are subject to restocking fees.

11. Provide a narrative of a recent project that totaled at least \$150,000 in lighting audit and LED solutions. The narrative should describe the lighting audit and results, proposed project scope, pricing costs and calculations, any fees, your company's installation/project management, and a final report and rebate summary.

In early 2021, I met with Kevin Johnson, the Facilities Director at Red Wing School district. He was interested in removing all fluorescent lamps and ballasts from his school district. He was starting to see consistent failure and knew he had to address the maintenance issue that was upcoming, as well as reduce some operating costs and his energy bill.

We discussed options for LED and the pros and cons around LED bulbs and LED fixtures and discussed what he had at his schools currently for switching, dimming and other functionality. We quickly determined that LED bulbs would not work for them, from not only a functional aspect, but also a funding aspect. The district's SPED (Special Education) Director was also involved and wanted to add Color-tuning functionality in all SPED rooms across the district.

We had some direction, so the next step was to capture the information with our site audits, or what we call our Lighting Energy Study. We collected utility bills, building layouts, and worked with the customer to capture accurate "burn hours", or the hours the lights are on annually.

Through the CPC contract we quoted the discounted \$0.04/sq. ft. for a total of 757,428 square feet. (\$30,297.12) This was for all (8) buildings in the school district. Red Wing High School, Middle School, Covill, Burnside, and Sunnyside Elementary schools, Prairie Island Ice Arena, the district maintenance shop, and River Bluff Educations Center. In May of 2021, we mobilized a team of project developers to capture existing fixtures counts, types, wattage, ceiling type, ceiling height, and light levels. They also all had a clear direction to specify consistent LED fixture solutions across all buildings.

For each building we provided a full scope of work, product material list and specification sheets, and a savings analysis. This analysis included the current annual lighting costs, current kW usage, current kWh usage, as well as the proposed usage for each. This calculated the expected energy savings dollars, kW, and kWh. We also provided the estimated utility

rebates for each, based on the current utility programs available. Total investment pricing, net investment, payback period and ROI were also provided for each building.

With the scope of work details, the financial investment numbers, and savings estimates in-hand, Kevin had what he needed to approach the Business Manager and School board with this project.

We determined at that time that the project needed to be implemented over the summer months, so the project was put on hold over the school year. In March of 2022 we refreshed the proposal with current rebate incentives and Kevin started his approval process. I attended multiple school board meetings with Kevin Johnson and his team to discuss the project and in May of 2022, the school board approved the project. They separated one school out as its own project since it was technically its own district (River Bluff Education Center) which was also approved by its board. That amount was \$73,500.00. The total sell price of the other (7) buildings was \$2,089,933.13. We reimbursed the Lighting Energy Study Fee, and we captured \$254,617.43 in Xcel Energy utility rebates. The total net investment for the district was \$1,805,018.58.

With approval, we immediately ordered the project material and had staff onsite the first week of June, when school got out. We hired three different subcontractors to perform the installation of the project to ensure all were completed by Labor Day, and the start of school. One of the three subcontractors was the district's local contractor. Once Labor Day came, we were about 95% completed with a small punch list of items to address. We all mutually felt the project installation went very well.

At the end of the project, we walked every building to make sure that all was completed and met the expectations of Kevin and his team. We coordinated a training for the SPED staff to learn how to program and use the color-tuning lights and provide video training resources for them to reference. We also did a customer testimonial with them to highlight the project results and the district's investment in energy-efficient technology and special color-tuning lighting for SPED students.

Here is a link to the case study for the entire district - <u>https://retrofitcompanies.com/maintenance-savings-red-wing-schools/</u>

Prairie Island Ice Arena was part of the project, so we also highlighted that portion of the project in a video: https://retrofitcompanies.com/prairie-island-ice-arena-lighting-upgrade-video/

15a. Uploaded as a separate PDF document titled "7 - Project Deliverables" provide the supporting documentation for the project described above in #15. Supporting documentation and deliverables must include the following:

- (i) Lighting audit and results
- (ii) Proposed project scope, pricing costs and calculations, any applicable fees
- (iii) Installation/Project Management plan
- (iv) Final report and rebate summary

*Because this project included (8) different buildings, I have provided the audit and results, and project details for Burnside Elementary as an example.

* I have also included the Lighting Energy Study quote, for all sites, and the Combined Project Proposal mentioned above, combining all the buildings.

12. Describe any "added value" attributes being offered to participating agencies when purchasing services and products through your company. Describe any "value-adds" that are <u>exclusive</u> to the potential contract.

Our value-added attributes are our experience, reputation, and lighting project knowledge through 31 years in the lighting industry. We have been doing turnkey projects for a long time, through all the technological changes and ever-changing market conditions. Through it all, we have retained a talented team that continues to deliver projects that meet our customers' goals, always putting them first. We also have a great marketing team that promotes us, our projects, and collaborates with the organizations we are a part of.

I don't know whether I can claim any of the above as exclusive to this potential contract. I will add though, that we have held multiple CPC contracts through the years, going back to 10+ years on our recycling contract. I think this knowledge of the CPC contracts and how they work are exclusive value-adds that we bring to members, to help them understand and utilize the contract(s).

Warranty

1. Describe your warranty program, including any conditions and requirements to qualify claims procedure and overall structure.

We honor and facilitate all manufacturers' warranties on products. Most are a term of 5 years; however, we support whatever term they offer. If a customer has any issue with material failing, they call us, then we facilitate replacement material.

Our labor warranty is 30 days after install; all is covered, no questions asked. At the end of our projects, we walk the facility with our customer to ensure all is completed and functioning correctly. In our experience, if an LED is going to fail, it is typically going to happen right away, so we cover everything for that 30-day period. If failure happens after that 30 day, we help diagnose the issue through our support team and manage the material claim. If labor is needed, we can provide the services, for a fee or we can send them the material.

2. Do all warranties cover all products/equipment parts and labor?

_____ Yes ____ No

If NO, describe the exceptions to coverage.

As stated above, we support and facilitate the manufacturers' material warranty and labor for a period of 30days past installation completion. We continue to be a resource for them as issues arise. For larger warranty issues, we have pushed our vendors to cover all labor costs and materials, successfully.

3. Do warranties cover the expense of a technician's travel time and mileage to perform warranty repairs?

X Yes No

If NO, describe why travel and mileage are not covered.

If within the 30-day window of project completion, all travel and mileage is covered in the warranty. If after the 30-day window technician's time and travel is billable.

4. List any additional limitations or circumstances that would not be covered under your warranty?

The manufacturer's warranty coverage is determined by the manufacturer. We support and facilitate the claim for our customers.

5. List any geographic areas for which your organization cannot provide a certified technician to perform warranty repairs. How will participating agencies in these areas be provided service for warranty repair? N/A

Financials & Level of Support

1. Describe the percentage of your company's revenue, by category (city/county/government, K12 education, higher education) that is derived from lighting audit services and LED sales on an annual basis.

In a normal year, education and city/county government project sales make up over 50% of our annual lighting revenue.

2. Describe how your company works with agencies to determine payment terms, progress payments, etc.

We ask for 50% of the gross amount down, then the remaining amount upon completion. Usually there is a rebate involved and, in most cases, we can take that for the customer, so they do not need to come out of pocket on that amount. We also

understand that the fiscal years, for education anyway, start in July, so we can work with each customer, as needed on payment terms.

3. Describe your company's allowed methods for payment and if any fees are assessed for those methods. Check and ACH. Credit Cards accepted with a 3% fee added.

4. Indicate the level of support your company will offer on this contract category.

- X Pricing is better than what is offered to individual educational agencies.
 - Pricing is better than what is offered to cooperative educational agencies.
 - _____ Other, please describe

If OTHER, describe how the pricing submitted differs from individual entities or other purchasing consortiums: Click or tap here to enter text.

5. Describe any self-audit process/program you plan to employ to verify compliance with an anticipated contract award.

We have a process in place to double check all projects being developed for accuracy and notify our project development team that the project being developed is CPC-eligible. This includes pricing discounts and when bonding is needed on a project. We review projects being developed and projects/studies being proposed weekly through our CRM and a shared Smartsheet, and in weekly meetings, to ensure that all are accurate and moving through the process.

Marketing & Partnership

1. Describe how your company will position and propose to support CPC and its participating agencies regarding program growth.

In my experience, educating the customer on the value of the CPC contract is the most difficult and important part.

The people that I have engaged with that have used CPC contracts in the past have jumped at the opportunity to do a lighting project this way. Many though have not used a CPC contract before and are hesitant to approach a project without multiple bids.

Our marketing team will develop an online resource for the contract that can be shared by our team through direct outreach and campaigns.

I think we could be better at utilizing the CPC's Marketing team, bringing them into our conversations early on so that the agency can better understand what they are getting by utilizing the CPC and this contract.

2. Describe and submit a marketing plan that would describe, at a minimum, the following: process on how the contract will be launched to current and potential agencies, the ability to produce and maintain full-color print advertisements in camera-ready electronic format, including company logos and contact information, anticipated contract announcements, planned advertisements, industry periodicals, other direct, or indirect marketing activities promoting the awarded contract, and how the contract award will be displayed/linked on your organization's website. You can submit any support materials as Exhibit A – Marketing Plan.

SEE Exhibit A – Marketing Plan

3. Describe how your company will position this contract to CPC's participating agencies if awarded.

Discounts and simplicity - better pricing, vetted partner, simple purchasing process.

4. Describe how you plan to inform and train company personnel on the contract terms and conditions, details, and promotion of the contract. Describe how your organization plans to utilize your marketing and sales staff with this anticipated contract.

If awarded, we train all staff on the contract details and coordinate a kick-off call with CPC's Marketing team, as well as contacts in the newly added areas (AEA and CESA).

- **1.** List any additional stipulations and/or requirements your company requests that are not covered in the RFP. N/A
- 2. List any exceptions your company is requesting to the terms outlined in the Technical Specifications. Respondents must include the following when requesting exceptions:
 - RFP section number and page number
 - Describe the exception
 - Explanation of why this is an issue
 - A proposed alternative to meet the needs of participating agencies and the cooperative

N/A

References

Provide three (3) references that have purchased Lighting Audit and LED Solutions <u>from your company within the last two (2) years</u>. References from the proposed service area are preferred. A contact name, phone number and email will be required. *Note, ensure your references are prepared to communicate with a representative from CPC. <u>Failure to confirm reference of past work may affect your evaluation.</u>

| Reference #1 – Company Name | ISD #256 Red Wing School District |
|-----------------------------|---------------------------------------------------------|
| Service/Product Purchased | District-wide turnkey lighting upgrade |
| Year of Purchase | 2022 |
| Reference Contact | Kevin Johnson |
| Phone | (651) 764-2685 |
| Email | jmailbag@gmail.com |
| Reference #2 – Company Name | ISD #656 Faribault School District |
| Service/Product Purchased | Elementary School Media Center turnkey lighting upgrade |
| Year of Purchase | 2022 |
| Reference Contact | Kain Smith |
| Phone | (507) 333-6027 |
| Email | ksmith@faribault.k12.mn.us |
| Reference #3 – Company Name | Boys & Girls Clubs of the Twin Cities |
| Service/Purchase Purchased | Eastside Club Gymnasium turnkey lighting upgrade |
| Year of Purchase | 2023 |
| Reference Contact | Doug Shellum |
| Phone | (612) 282-1857 |
| Email | dshellum@bgc-tc.org |





JOIN FORCES, SUCCEED TOGETHER.

HEREBY GRANTS Woman owned small business (wosb) certification to

The Retrofit Companies, Inc. DBA Retrofit Lighting & Design, Retrofit Electric, & Retrofit Environmental

The identified small business is an eligible WOSB for the WOSB Program, as set forth in 13 C.F.R. part 127 and has been certified as such by an SBA approved Third Party Certifier pursuant to the Third Party Agreement, dated June 30, 2011, and available at www.sba.gov/wosb.

that makes the WOSB ineligible. If either occurs, this WOSB Certification is immediately invalid. The WOSB must not misrepresent its certification status to any other The WOSB Certification expires on the date herein unless there is a change to the SBA's regulation that makes the WOSB ineligible or there is a change in the WOSB party, including any local or State government or contracting official or the Federal government or any of its contracting officials.

Majority Female Owner: Wendy Fry

NAICS: 238990, 238210, 423610, 541330, 541420, 541690, 561790, 562712, 562114, 562211, 562211, 562219 UNSPSC: 24102400, 39000000, 39101600, 39101628, 39101700, 39101901, 39101907, 39110500, 39111501, 39111502, 39111503, 39111531, 39111501, 39111503, 39111532, 39111533, 39111534, 39111536, 39111532, 39111532, 39111533, 39111534, 39111612, 39111616, 39111619, 39111619, 391111522, 39111534, 39111612, 39111616, 39111619, 39111500, 39111536, 39111537, 39111537, 39111532, 39111533, 39111534, 39111612, 39111616, 39111619, 39111500, 39111534, 39111612, 39111616, 39111619, 39111619, 391111612, 39111616, 39111619, 39111534, 39111612, 39111616, 39111619, 39111619, 391111612, 39111616, 39111619, 3911116100, 39111821, 39111827, 39111828, 391111530, 39111612, 39111616, 39111619, 39111619, 391111612, 39111616, 39111619, 39111610, 39111821, 39111827, 39111828, 391111612, 39111536, 39111619, 39111619, 39111612, 39111616, 39111612, 39111610, 39111612, 39112403, 39121107, 42191601, 42191602, 76121103, 72121103, 72121400, 72151500, 72151500, 76122101, 72151202, 76122100, 76122102, 76122102, 761221002, 761221002, 761221002, 761221002, 76122100, 76122200, 76122203, 76122203, 76122203, 76122203, 76122203, 76122203, 76122203, 76122203, 76132300, 76132301, 76122303, 76122303, 76122304, 76122303, 76122304, 76122202, 76131602, 76131602, 76131700, 76132301, 76122302, 76122303, 76122304, 76122303, 76122303, 76122304, 76122304, 76122303, 76132304, 76122304, 76122302, 76131602, 76131700, 76132304, 76122303, 76122303, 76132304, 76122303, 76132304, 76122304, 76122303, 76132304, 76122304, 76122304, 76122304, 76131602, 76131602, 76131700, 76132304, 76122302, 76122303, 76122304, 76122303, 76122303, 76122304, 76122304, 76122304, 76131700, 76131700, 76132304, 76122303, 76122303, 76122304, 76122303, 76122303, 76122304, 76122303, 76122303, 76122304, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122303, 76122304, 7612

Certification Number: WOSB190162

Renewal Date: January 31, 2024

WOSB Regulation Expiration Date: 1/31/2026



Emlin Si Meneo

Emilia DiMenco, Women's Business Development Center - Midwest President &

Rund a. Rinco Labor CEO

Pamela Prince-Easton, WBENC President & CEO

-aKesha White, Vice President, Certification

DEPARTMENT OF ADMINISTRATION EQUITY IN PROCUREMENT

January 29, 2019

Ms. Wendy Fry Retrofit Environmental - AND - Retrofit Lighting & Design 1010 Hoffman Drive Ste A AND 2960 Yorkton Blvd Little Canada MN 55117 Owatonna, MN 55060

Dear Ms. Fry:

Your application for participation in the Minnesota Small Business Procurement Program has been approved. Your business is now listed in the directory of certified businesses as shown below. Your company was certified on January 29, 2019.

Retrofit Environmental - AND -Retrofit Lighting & Design 1010 Hoffman Drive Ste A AND 2960 Yorkton Blvd Little Canada MN 55117 Owatonna, MN 55060 State Vendor Number: 0000221066 www.retrofitcompanies.com Woman Owned Business (W) Wendy Fry Phone: (612) 756-0774 Fax: (507) 455-2192

Customize environmental solutions - lab packing, pre-demolition clean-up, removal and proper disposal of regulated waste. Customized energy-efficient lighting retrofit design and implementation services. Primary NAICS Code: 238210 Secondary NAICS Codes:

Preferences and subcontract opportunities are only valid for products or services as approved by and on file with this office, and are generally applied in accordance with the attached chart. The individual(s) in the Office of State Procurement who most often purchase the products or services you provide are listed on our website at http://www.mmd.admin.state.mn.us/mn06003a.asp.

You are required to notify this office in writing of any and all changes in your business which could affect your eligibility for this program within thirty days of such change. Please also notify this office of any changes in address, telephone number, product line or services, etc. Your certification is valid until rescinded by this office. You may be asked to verify and update information on file at any time.
You are also certified to participate in similar state-funded programs at the Minnesota Department of Transportation (highway construction-related) and several metropolitan agencies. The state certification does not apply to federal-funded programs administered by those agencies.

Your company is listed on the state's vendor list. If you have any questions about the state's purchasing process, please feel free to call our HelpLine at 651.296.2600. Be sure to keep your vendor information current through the Supplier Portal Online Vendor Registration (link can be found on our home page at www.mmd.admin.state.mn.us). There you will also find a link to Solicitation Announcements, where the state's purchasing opportunities are published.

If you have any questions or need any assistance regarding the Minnesota Small Business Procurement Program, please feel free to contact the Office of Equity in Procurement at 651.201.2402.

Sincerely,

Aaron Anderson Vendor Specialist Office of Equity in Procurement Minnesota Small Business Procurement Program

Enclosures



The Office of Equity in Procurement now offers certified Targeted Group, Economically Disadvantaged, and Veteran-Owned small businesses a logo for use on their websites, emails, etc. To find this certification logo, please go to this website: <u>https://mn.gov/admin/business/vendor-info/oep/sbcp/cert-logo/</u>



5/16/2023 Wendy Fry The Retrofit Companies Inc dba Retrofit Environmental and Retrofit Lighting & Design 1010 Hoffman Drive Suite A Owatonna, MN 55060

Dear Wendy Fry:

This letter confirms receipt of your 2022 annual Disadvantaged Business Enterprise No Change Affidavit and supporting documentation in accordance with 49 Code of Federal Regulations Part 26 (49 C.F.R. §26 et seq.).

I am pleased to inform you that the information has been reviewed and approved by the Minnesota Unified Certification Committee. Your firm's Disadvantaged Business Enterprise (DBE) certification will remain valid for another year.

The DBE directory, located at <u>https://mnucp.org/</u>, will continue to list your contact information and will include the following NAICS codes and description of services performed:

Please note: NAICS Codes are periodically updated by the US Census Bureau North American Industry Classification Systems. NAICS CODES 335122 which you were previously certified in has been updated to 335132 and 444190 has been updated to 444180 in accordance with these updates. The DBE directory has been updated to reflect this change

NAICS

238210 Electrical Contractors and Other Wiring Installation Contractors 335132 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing 444180 Other Building Material Dealers 541330 Engineering Services 562112 Hazardous Waste Collection

Business Description: 3 DIVISIONS TO PROVIDE EXCEPTIONAL SERVICE: RETROFIT ELECTRIC - CONSTRUCTION, RENOVATION, DESIGN BUILD, SERVICE & EV CHARGING. RETROFIT LIGHTING & DESIGN – LIGHTING RETROFITS, CONTROLS AND ENERGY-EFFICIENT LIGHTING DESIGN. RETROFIT ENVIRONMENTAL -ENVIRONMENTAL SERVICES, DELIVERING A STRESS FREE EXPERIENCE TO PROPERLY DISPOSE OF REGULATED HAZARDOUS AND NON-HAZARDOUS WASTE. Should any changes occur within your firm, or if you have any questions, please feel free to contact me at 651-564-5259

Sincerely,

Leigh Collier DBE Specialist MnDOT - Office of Civil Rights

| Minnesota Department of Transportation Office of Civil Rights Civil Rights | Metropolitan Airports Commission Office of Diversity | Metropolitan Council Office of Diversity | City of Minneapolis Department of |
|----------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|--------------------------------------|
| 395 John Ireland Blvd Mail Stop 170 #239 | 6040 28 th Avenue South | 560 6 th Avenue North | 350 S 5 th Street |
| St. Paul MN 55155-1899 55415 | Minneapolis, MN 55450 | Minneapolis, MN 55411 | Minneapolis, MN |
| Phone: 651-366-3073 3076 | Phone: 612-726-8193 | Phone: 612-349-7463 | Phone: 612-673- |

Л

Vendor Forms & Signatures RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein are forms and information required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

COOPERATIVE Purchasing

CONNECTION

To submit the <u>required forms</u>, follow these steps:

- 1. Read the document in its entirety.
- 2. Complete all questions and forms.
- 3. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Forms & Signatures Name of Company*".
- 4. Submit the forms in the required format with all necessary signatures in Public Purchase.

The following sections will need to be completed prior to submission and submitted as one single PDF titled "Vendor Forms & Signatures – Name of Company":

- 1. <u>Contract Offer & Award</u>
- 2. Uniform Guidance "EDGAR" Certification Form
- 3. <u>Subcontractor Utilization Form</u>

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part I will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | The Retrofit Companies, Inc. (dba Retrofit Lighting & Design) | Date | 8/31/2023 |
|-------------------------|---------------------------------------------------------------|------------------|--------------------|
| Address | 1010 Hoffman Drive Suite A | City, State, Zip | Owatonna, MN 55060 |
| Contact Person | Jake Andrist | Title | Director |
| | | | |
| Authorized Signature | Jake Andrist | Title | Director |
| Email | jandrist@retrofitcompanies.com | Phone | (507) 363-0656 |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | | Authorized Signature | |
|----------------|-------------------|----------------------|--|
| Name | | Title | |
| Awarded this | day of | Contract # | |
| Contract/Agree | ement to Commence | | |

EDGAR Certification Form 2 CRF Part 200

REQUIRED CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS – APPENDIX II TO 2 CFR 200

The following provisions are required and apply when federal funds are expended by participating agencies for any contract resulting from this procurement process.

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Vendor Violation or Breach of Contract Terms

Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. Provisions regarding vendor default and legal remedies are included in Sections I.K.18 and I.K.19 above. Any contract award will be subject to such provisions. The remedies under the contract are in addition to any other remedies that may be available under law or in equity.

(B) Termination for Cause and for Convenience

Pursuant to Federal Rule (B) above when federal funds are expended by participating agencies, the participating agency reserves all rights to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by the Vendor, in the event the vendor fails to" (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. The participating agency reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if the participation agency believes, in its sole discretion that it is in the best interest of the participating agency to do so. The vendor will be compensated for work perform and accepted and goods accepted by the participating agency. Any award made under this procurement process is not exclusive and the participating agency reserves the right to purchase goods and services from other vendors when it is in the best interest of the participating agency.

(C) Equal Employment Opportunity

Except as otherwise provided under 41 CFR Part 60, all participating agency purchases or contract that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR Part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

(D) Davis Bacon Act

When required by Federal program legislation, Vendor agrees that, for all participating agency contracts for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, in excess of \$2,000, Vendor shall comply with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the Vendor is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a

wage determinate made by the Secretary of Labor. In addition, the Vendor shall pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Vendor must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act

Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. The requirements of the 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions that are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies, materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Right to Inventions Made Under a Contract or Agreement

If the participating agency's Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance or experiments, developmental or research work under the "funding agreement," the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act and Federal Water Pollution Control Act

Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Order 12549 and 12689)

A contract award (see 2 CFR 180.222) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), "Debarment and Suspension." SAM exclusions contain the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Vendors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by participating agencies, the vendor certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, the vendor certifies that it is compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be include in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriated tiers and that all subrecipients shall certify and disclose accordingly.

(J) Procurement of Recovered Materials

For participating agency purchases utilizing Federal funds, Vendor agrees to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act where applicable and provide such information and certifications as a participating agency may require to confirm estimates and otherwise comply. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery, and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

(K) Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment

A participating agency is prohibited from obligating or expending funds to:

- (1) Procure or obtain.
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou

Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

- (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
- (iii)Telecommunications or video surveillance equipment or services products or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(L) Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.

For the purpose of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

PROFIT AS A SEPARATE ELEMENT OF PRICE

For purchases using federal funds in excess of \$250,000, a participating agency may be required to negotiate profit as a separate element of the price. See 2 CFRR 200.323(b). When required by a participating agency, the vendor agrees to provide information and negotiate with the participating agency regarding profit as a separate element of the price for a particular purchase. However, vendor agrees that the total price, including profit, charged by the vendor to the participating agency shall not exceed the awarded pricing.

RECORD RETENTION REQUIREMENTS FOR CONTRACTS PAID FOR WITH FEDERAL FUNDS – 2 CFR § 200.333

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The vendor further certified that vendor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending maters are closed.

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that the vendor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conversation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18; Pub. L. 94- 163, 89 Stat. 871).

CERTIFICATION OF NON-COLLUSION STATEMENT

Vendor certifies under penalty of perjury that its responsible to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Pursuant to Federal Ruling, when federal funds are expended by participating agencies, the vendor hereby certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, vendor certifies compliance will all provisions, laws, acts, regulations as specifically noted above. The vendor agrees to comply with all federal, state, and local laws, rules, regulations, and ordinances, as applicable.

| Business Name | The Retrofit Companies, Inc. (dba Retrofit Lighting & Design) | Authorized Jake Andrist |
|---------------|---------------------------------------------------------------|-------------------------|
| Full Name | Jake Andrist | Title Director |

Subcontractor Utilization Form

Instructions: List all subcontractors to be used during the performance of this contract. Submit additional forms if needed.

| Solicitation Name: | Lighting Audit Services & LED Solutions |
|---------------------------|-------------------------------------------------------------------------------------|
| Solicitation Number: | RFP #24.5 |
| Vendor Name: | The Retrofit Companies, Inc. (dba Retrofit Lighting & Design) |
| If a subcontractor will r | not be used, check this box: |
| Company Name: | *Please see "Subcontractor Utilization Process Plan – The Retrofit Companies, Inc." |
| Street Address: | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| Email Address of Cont | act: |
| Services to be provide | d: |
| | |
| Company Name: | |
| Street Address: | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| Email Address of Cont | act: |
| Services to be provide | d: |
| | |
| Company Name | |
| Street Address: | |
| City State 7in | |
| City, State, Zip: | |
| reiepnone: | |
| Primary Contact: | |
| Email Address of Cont | act: |
| Services to be provide | d: |
| | |

| TWIN CITIES, MINNESOTA | TRC | EST, 1992 |
|------------------------|----------------|-----------|
| | - | |
| | RETROFIT | |
| LIG | HTING & DESIGN | 1 |

Subcontractor Utilization Process Plan – The Retrofit Companies, Inc.

- 1. During the project development process, The Retrofit Companies, Inc. will note any existing contractor relationships or interest from the customer to source local labor on the projects.
- 2. At the time of sale, The Retrofit Companies, Inc. will assess their backlog of work for their own electricians, the geographic location of the project, any existing relationships or interest from the customer to source any particular labor option and determine if sub-contracted labor is needed.
- 3. If sub-contracted labor is needed, The Retrofit Companies, Inc. will reach out to at least (2) electrical contractors in the area to see if they are interested in the project installation.
- 4. All potential sub-contractors will be given a non-disclosure agreement (NDA) to review, sign and return.
- 5. After The Retrofit Companies, Inc. receives the executed NDAs, the scope of work is shared, along with a bid document to fill out and submit for review.
- 6. Upon receiving all the subcontractor bids, The Retrofit Companies, Inc. will select the appropriate subcontractor for that job.
- 7. The Retrofit Companies, Inc. will then submit the sub-contractor information via the Sub-Contractor Utilization Form, to the Cooperative Purchasing Connection (CPC) for review.
- 8. If approved, a contract will be drafted and sent to the sub-contractor to execute the project.
- 9. If not approved by the CPC we will submit alternate options for installation utilizing the same process.

800-795-1230 info@retrofitcompanies.com www.retrofitcompanies.com



| Instructions. Complete the tables below for the services your c | ompany is orierring. | Please note this is | s an kEQUII | KEU IOFM. | | |
|------------------------------------------------------------------------|--------------------------|----------------------------|-------------------------|------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Responding Company's Name: | | The Retrofit (| <mark>lompanies,</mark> | Inc. (dba Retrofit) | lighting & Design) | REQUIRED |
| Lighting Assessment & Design | | | | | | |
| Description | Standard Price & Rate | Discounted Price & Rate | & Member Savings | Per Diem Charges (daily rate, if any) | Mileage Charges (per mile, if any) | Notes/Comments |
| Lighting Audit & Assessment (per square foot) | \$0.07 | \$0.04 | 42.86% | \$ 125.00 | Current IRS Tax Rate | Mileage and Per Diem is applicable case by case |
| Design Services | N/A | N/A | N/A | | | Design services included in deliverable of the Lighting Audit & Assessment. |
| Project Management | \$ 200.00 | \$ 125.00 | 37.50% | \$ 125.00 | Current IRS Tax Rate | Project Management, from concept to completion is included in all turnkey projects. |
| - - | | | | | | |
| | | | | | | |
| Installation [Labor] **Prevailing wage projects/inst | alls are subject to | higher hourly rat | es/charges | . Prevailing wage | ates change by MN county. Participatin | g agencies are required to notify the Vendor if prevailing |
| wages are required (state/federal funding as part or all of t | he project). | | | | | |
| Description | Standard Price & Rate | Discounted Price & Rate | & Member Savings | Per Diem Charges (daily rate, if any) | Mileage Charges (per mile, if anv) | Notes/Comments |
| Hourly Rate - Regular Hours | \$ 150.00 | \$ 135.00 | 10.00% | \$ 125.00 | Current IRS Tax Rate | |
| Hourly Rate - Evening | \$ 175.00 | \$ 160.00 | 8.57% | \$ 125.00 | Current IRS Tax Rate | |
| Hourly Rate - Weekend/Holidays | \$ 200.00 | \$ 185.00 | 7.50% | \$ 125.00 | Current IRS Tax Rate | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Other Services | | | | | | |
| Description | Standard Price & Rate | Discounted Price & Rate | & Member Savings | Per Diem Charges (daily rate, if any) | Mileage Charges (per mile, if any) | Notes/Comments |
| Rebate Fulfillment | \$ 200.00 | \$ 125.00 | 37.50% | \$ 125.00 | Current IRS Tax Rate | Rebate fulfilment included in turnkey project |
| Recycling Services | N/A | A/N | N/A | | | Recycling rates dependant on waste types and packaging needed on the Job, CPC Recycling Services Contract is recommended. All recycling services included in turnkey project |
| Training (Lighting Controls Commissioning and Training) | \$ 200.00 | \$ 125.00 | 37.50% | \$ 125.00 | Current IRS Tax Rate | Lighting Controls training and commissioning included in turnkey project |
| 5 | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

1-Lighting Audit Services

*Please note this workbook has multiple tabs.

2.1 - LED Category Discount *Please note this workbook has multiple tabs.

Instructions. Complete the following schedule for all categories of product offered (by catalog, category, and/or by manufacturer) which can include sub-categories (specific lines from manufacturers) and the discount associated with that category. The form should be completed by the standards listed in the Technical Specifications. Additional rows may be added. This is a required form **if proposing** lighting solutions.

| Responding Company's Name: | | The Retrofit Companies, Inc. (dba Retrofit Lighting & Design) |
|----------------------------------------|------------------|---------------------------------------------------------------|
| | | REQUIRED FORM |
| Catalog/Category/Manufacturer Grouping | Discount Offered | Comments |
| ACUITY Brands | 15% | All Acuity Brands (Lithonia, SensorSwitch, Etc.) |
| AFX | 15% | |
| COOPER LIGHTING SOLUTIONS | 15% | All Cooper Lighting Brands (Metalux, Lumark, Etc.) |
| CURRENT | 15% | All Current Brands (GE, Columbia, Prescolite, Beacon, Etc.) |
| ENERGY SOLUTIONS INTERNATIONAL (ESI) | 15% | |
| ESPEN TECHNOLOGY | 15% | |
| GREEN CREATIVE | 15% | |
| KEYSTONE | 15% | |
| LEDVANCE/SYLVANIA | 15% | |
| LINMORE LED | 15% | |
| LSI INDUSTRIES | 15% | Does not include graphics or sinage products. |
| LUTRON | 15% | |
| SENSORWORX | 15% | |
| SIGNIFY | 15% | All Signify Brands (Philips, Day-Bright, Lightolier, Etc.) |
| SPRING LIGHTING GROUP (SLG) | 15% | |
| FSC LIGHTING | 15% | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| - |
|--------------|
| |
| |
| |
| Ĩ |
| |
| \mathbf{O} |
| U U |
| S |
| |
| |
| |
| Ð |
| Ξ |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

*Please note this workbook has multiple tabs.

Instructions. Complete the form below if your company is offering additional discounts for a one time purchase, size of project, or a group of local agencies in a geographic area combining requirements (estimate annual spend). Please note this is an optional form.

Responding Company's Name:

OPTIONAL FORM

| ollar Amount From | Dollar Amount To | Catalog/Product/Manufacturer | Additional Discount Offered |
|-------------------|------------------|------------------------------|-----------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



PROPOSED BY: Jake Andrist

LIGHTING ENERGY STUDY PROPOSAL

ISD #256 Red Wing Public Schools District-wide Lighting Energy Study

| INCLUDE | TRC WILL PROVIDE THE FOLLOWING | DESIGN FEE |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| х | DETAILED SCOPE OF WORK: includes location, existing system details, and full proposed details, including part #s and installation instructions | |
| X | SAVINGS ANALYSIS: includes existing and proposed kW, kWh, estimated utility rebates, and energy costs, condensed by technology. | 10.44 |
| x | PROJECT SUMMARY: snapshot of existing, proposed, and savings figures, simple payback, total investment, and return on investment TOTAL LIGHTING DESIGN FEE | \$30,297.12 |

AREA(S) INCLUDED IN DESIGN Audit and develop turnkey projects for the interior and exterior spaces of the following sites. Fee per square foot, at the CPC discounted rate of \$0.04/sq. ft. to include the following areas:

> Red Wing High School 269,824 SF Twin Bluff Middle School 179,224 SF Burnside Elementary 88,353 SF \$ Sunnyside Elementary 74,416 SF Colvill 23,535 SF Prairie Island Arena 50,066 SF River Bluff Education Center 66,710 SF Maintenance Shop 5,300 SF TOTALLING 757,428 SF

TERMS INVOICE UPON COMPLETION

DETAILS

All project areas developed, as stated above, will be allowed (1) rework to ensure that the project technology specifications, pricing, and utility rebate are current at time of implementation.

This Lighting Energy Study is utilizing the Cooperative Purchasing Connection contract: #20.6 - RLD Lighting Audit and Solutions

| | COOPERATIVE | |
|---|--------------------------|--|
| _ | Purchasing CONNECTION | |
| | | |

SIGNATURE

DATE

www.retrofitcompanies.com



ISD #256 Red Wing Public Schools

Burnside Elementary - Fixture/Kit Option

September 07, 2021





Prepared By:

Jake Andrist Sales and Marketing Manager (507) 363-0656 jandrist@retrofitcompanies.com

*** Data is proprietary and confidential ***



Executive Summary

Since 1992, The Retrofit Companies, Inc. has offered thousands of clients a premium solution to help them meet their energy-saving goals. Through our collaborative approach, sophisticated design capabilities, and thorough project management, we implement high-performance solutions that deliver quality results.

We are pleased to offer you a customized turn-key solution that includes: project material, labor, equipment, and utility rebates. We've included estimates for your current and proposed energy usage, as well as savings for the areas this project addresses. Additionally, you will find payback and R.O.I. information. Please keep in mind that the electrical rate and hours of operation will affect the accuracy of these figures.

After reviewing this proposal, please sign and send back to get your lighting upgrade started. We look forward to working with you!

Jake Andrist Sales and Marketing Manager (507) 363-0656 jandrist@retrofitcompanies.com



Improved LED lighting can provide increased funding to your school.

Some states are seeing funding cut by 10% every year.

Improving lighting and other systems to become more energy-efficient directly affects student performance, student absenteeism, and teacher retention while offering additional opportunities for funding to be allocated towards other projects for student materials and resources.

Improved lighting design leads to increased attendance, improved learning conditions, and improved health of students and staff:

- A typical energy budget equates to roughly \$205.00 per student, per year. \$1.40 per square foot spent on energy costs in the education sector; 17% typically goes towards lighting.
- A 2004 study found that facility condition and quality was an important predictor of the decisions of teachers to leave their positions and that as the perceived quality of school facility improves, the probability of retention increases.
- With the increased attention put on the quality and care of meals being served in schools, the implementation of better equipment and LED lighting has allowed kitchen staff to notice an improvement in food color and flavor, as well as reductions in the amount of time it takes to prepare meals.

Lighting quality plays a significant role in student achievement.

- LED lighting technologies have the potential to significantly reduce energy consumption while increasing student performance.
- Tunable LED lighting offers the ability to tune lighting levels and color temperature, optimizing performance on tasks.
- A recent study found that students achieved a significantly higher percentage increase in oral reading fluency performance when working in a room equipped with LED lights set to a "focus" setting of 1000 lux and 6500K, compared to fluorescent T8 lamps with 500 lux and 3500K.

With a potential decrease every year in federal, state and local funding for public schools it is vital that districts pay close attention to student attendance and performance. Improved learning environments have proven to increase math and reading test scores and have shown an improvement in student health, reducing student absenteeism, resulting in better grades in general.

Teacher's also benefit from a more productive classroom and improved health due to their environment. This improves teacher retention, in turn reducing the substitute teacher budget and attracts new talented, qualified teachers.

ISD #256 Red Wing Public Schools Burnside Elementary - Fixture/Kit Option



Cash Flow Analysis

| | 10.00% | 10.00% | 10 |
|-----------|----------------------|------------------|----------------|
| sumptions | Discount Rate | tility Rates +/- | Analysis Years |

| | Year | Year | Year | Year | Year | Year | Year | Year | Year | Year | Year |
|----------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Cash Outflows | 0 | - | 2 | ო | 4 | ß | 9 | 7 | œ | 6 | 10 |
| Investment | \$235,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Down Payment | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Financed Investment | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| SUBTOTAL OUTFLOWS | \$235,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Cash Inflows | | | | | | | | | | | |
| Energy | \$0 | \$12,074 | \$13,281 | \$14,610 | \$16,071 | \$17,678 | \$19,445 | \$21,390 | \$23,529 | \$25,882 | \$28,470 |
| HVAC | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Maintenance | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Rebates | \$20,233 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | | | | | | | |
| SUBTOTAL INFLOWS | \$20,233 | \$12,074 | \$13,281 | \$14,610 | \$16,071 | \$17,678 | \$19,445 | \$21,390 | \$23,529 | \$25,882 | \$28,470 |
| TOTAL CASH FLOWS | -\$215,267 | \$12,074 | \$13,281 | \$14,610 | \$16,071 | \$17,678 | \$19,445 | \$21,390 | \$23,529 | \$25,882 | \$28,470 |
| Present Value (PV) | -\$215,267 | \$10,976 | \$10,976 | \$10,977 | \$10,977 | \$10,977 | \$10,976 | \$10,976 | \$10,976 | \$10,976 | \$10,976 |
| Net Present Value (NPV) | -\$10 | 5,502.92 | | | | | | | | | |
| Return on Investment (ROI) | | 13.23% | | | | | | | | | |
| Internal Return Rate (IRR) | | -1.75% | | | | | | | | | |

0.51

Savings to Investment Ratio (SIR)



ISD #256 Red Wing Public Schools

Burnside Elementary - Fixture/Kit Option

Customized Energy-Efficient Lighting Solution Summary

TRC will supply materials and the installation for conversion of your existing lighting systems. All equipment meets necessary requirements to qualify for the lighting rebates. Disposal costs are included in proposal price.

ENERGY SAVINGS

| Current Annual lighting cost | | \$22,916.00 |
|-------------------------------|-----------------------------------------------|-------------|
| Current KW | | 75.412 |
| Current KWH | | 199,614 |
| Proposed Annual lighting cost | | \$10,842.00 |
| Proposed KW | | 36.551 |
| Proposed KWH | | 94,440 |
| KW Saved | | 38.861 |
| KWH Saved | | 105,175 |
| Annual Energy Cost Savings | | \$12,074.05 |
| • MONTHLY | | \$1,006.17 |
| • DAILY | (cost per business day of not doing retrofit) | \$50.31 |

| Total Project Investment | \$235,500.00 |
|---------------------------------------------------------------------------------|--------------|
| Estimated Utility Rebate | \$20,232.61 |
| Total Net Project Investment | \$215,267.39 |
| Project Simple Payback (based on energy-excluding Maintenance savings) in years | 17.83 |
| Return on Investment Excluding Maintenance Savings | 5.61% |
| ENVIRONMENTAL IMPACT* (ANNUALLY) | |
| Total greenhouse gas reduction (Metric Tons of CO2) | 78.2 |
| Passenger cars not driven for one year | 16.5 |
| Gallons of gasoline | 8,805.0 |
| Acres of forest preserved from deforestation | 73.82 |
| Tons of waste recycled instead of landfilled | 100.32 |

*SOURCE: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

The Cost of Waiting



Project Cost & Savings Summary

The following graphs and tables show the annual project costs and savings expected with the proposed design, based on annual usage hours and a utility rate of \$0.1148 per kWh.

| Financial Costs | and Saving | S |
|----------------------------|------------|----------|
| | Costs | Savings |
| Cost of Project | \$235,500 | |
| Rebates | | \$20,233 |
| Annual Energy Savings | | \$12,074 |
| Annual HVAC Savings | | \$0 |
| Annual Maintenance Savings | | \$0 |



Energy (\$12,074) Rebates (\$20,233)



Cumulative Costs Over 18 Year Lifecycle (\$)

(Graph based on Single Investment project data)

\$120,740.46 **Estimated Lifecycle Savings**



Maintenance Savings Detail

Existing Maintenance

| Annual Cost | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$61.83 | \$19.67 | \$28.15 | \$29.71 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.48 | \$10.03 | \$825.25 | \$1.96 | \$0.00 | \$0.00 | \$27.17 | \$0.52 |
|-------------------|--------------------------------------------|-------------------------------------|-------------------------|----------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|--------------|---------------------|---------------|---------------|------------------------|------------------------|------------------------|------------------------|------------|---------|----------------------------------------------|--------------------------------------------|
| Fail Factor | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Avg Burn | 2,400 | 508 | 3,675 | 250 | 4,368 | 4,368 | 2,735 | 1,683 | 2,160 | 3,900 | 4,368 | 4,368 | 2,160 | 2,636 | 2,613 | 250 | 4,160 | 508 | 3,900 | 2,160 |
| Warranty Years | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rated Life | 0 | 0 | 0 | 0 | 24,000 | 24,000 | 24,000 | 1,000 | 0 | 0 | 0 | 0 | 36,000 | 36,000 | 36,000 | 36,000 | 0 | 0 | 60,000 | 60,000 |
| Labor Cost | \$5.00 | \$5.00 | \$5.00 | \$5.00 | \$0.00 | \$0.00 | \$0.00 | \$5.00 | \$5.00 | \$5.00 | \$0.00 | \$0.00 | \$5.00 | \$5.00 | \$5.00 | \$5.00 | \$5.00 | \$10.00 | \$10.00 | \$10.00 |
| Material Cost | \$9.72 | \$0.00 | \$0.00 | \$0.00 | \$25.88 | \$25.88 | \$25.88 | \$0.88 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$3.05 | \$3.05 | \$3.82 | \$2.64 | \$0.00 | \$0.00 | \$18.82 | \$18.82 |
| Qty | 7 | 12 | 16 | 7 | 52 | 7 | 16 | 9 | 9 | - | 41 | 21 | 7 | 34 | 2577 | 74 | 4 | 9 | 29 | - |
| SKU | 13W CFL SPRING LAMP 13W CFL SPRING LAMP | CFN DBL TUBE 4PIN N-I 26 (Trimmed1) | CFN SGL TUBE 2PIN N-I 7 | CFS-M Triple Tube 23 | HPS MED BASE HID 100 HPS MED BASE HID 100 | HPS MED BASE HID 70 HPS MED BASE HID 70 | HPS MOG BASE HID 400 HPS MOG BASE HID 400 | INCS-M A19 60 60W A19 Incardescent Lamp | INCS-M PAR38 | LED Linear Board 40 | LEDS-M A19 12 | LEDS-M COB 22 | LF2 T8 17 LF2 T8 17 | LF3 T8 25 LF3 T8 25 | LF4 T8 25 LF4 T8 25 | LF4 T8 32 LF4 T8 32 | LL4A T8 15 | ELE CFN | ELE T8 DIM NP LF4 2L ELE T8 DIM NP LF4 2L | ELE T8 IS NP LF2 2L ELE T8 IS NP LF2 2L |
| Part Type | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | LAMP | BALLAST | BALLAST | BALLAST |

| | ; |
|--------|---|
| S | (|
| School | |
| 0 | |
| Publi | i |
| Wing | , |
| Red | i |
| 9 | |
| #25 | • |
| Δ | |
| S | (|



| BALLAST | ELE T8 IS NP LF3 2L ELE T8 IS NP LF3 2L ELE T8 IS NP LF3 2L ELE T8 IS NP LF4 10L | | | | τ <u></u> α | \$ \$ | 8.82 | \$10.00 | | 50,000 50,000 | | 0 0 | 2,636 | | | 0.50 | 0.50 |
|--------------|------------------------------------------------------------------------------------------------------|-----|------------------|---------------|---------------|-------------------|-------------|------------------|----------------|------------------|--------------|------------------|-------|------------|--------------------|----------------------------|-------------------------------|
| BALLAST | ELE 18 IS NP LF4 10L ELE T8 IS NP LF4 10L ELE T8 IS ND I E4 21 | | | | 9 | \$2 | 1.17 | \$10.00 | 9 | 30,000 | | 0 | | 2,160 | 2,160 | 2,160 0.50 | 2,160 0.50 |
| BALLAST | ELE 1815 NP LF4 2L ELE T81S NP LF4 2L | | | | 32 | \$1 | 8.82 | \$10.00 | U | 30,000 | | 0 | | 2,838 | 2,838 | 2,838 0.50 | 2,838 0.50 |
| BALLAST | ELE T8 IS NP LF4 3L ELE T8 IS NP LF4 3L | | | | 109 | 96 \$2 | 1.17 | \$10.00 | Û | 30,000 | | 0 | | 2,379 | 2,379 | 2,379 0.50 | 2,379 0.50 |
| BALLAST | ELE T8 IS NP LF4 4L ELE T8 IS NP LF4 4L | | | | - | \$2 | 1.17 | \$10.00 | U | 30,000 | | 0 | | 250 | 250 | 250 0.50 | 250 0.50 |
| BALLAST | ELE T8 IS NP LF4 6L ELE T8 IS NP LF4 6L | | | | 4 | \$2 | 1.17 | \$10.00 | 9 | 30,000 | | 0 | | 3,120 | 3,120 | 3,120 0.50 | 3,120 0.50 |
| BALLAST | HID HPS 100 HID HPS 100 | | | | 5 | \$13 | 22.35 | \$0.00 | 9 | 30,000 | | 0 | | 4,368 | 4,368 | 4,368 0.50 | 4,368 0.50 |
| BALLAST | HID HPS 400 HID HPS 400 | | | | 16 | \$12 | 29.41 | \$0.00 | Q | 000'00 | | 0 | | 2,73 | 2,735 | 2,735 0.50 | 2,735 0.50 |
| BALLAST | HID HPS 70 | | | | 7 | \$8 | 8.23 | \$0.00 | 9 | 30,000 | | 0 | | 4,368 | 4,368 | 4,368 0.50 | 4,368 0.50 |
| BALLAST | LED DRIVER | | | | - | \$ | 00.0 | \$10.00 | | 0 | | 0 | | 3,900 | 3,900 | 3,900 0.50 | 3,900 0.50 |
| BALLAST | MAGES | | | | 80 | \$0 | 00.0 | \$10.00 | | 0 | | 0 | | 3,675 | 3,675 | 3,675 0.50 | 3,675 0.50 |
| Total Exis | sting Maintenance | | | | | | | | | | | | | | | | \$ |
| Propo | sed Maintenance | | | | | | | | | | | | | | | | |
| Part Type | SKU | Qty | Material Cost | Labor Cost | Rated Life | Warranty Years | Avg Burn | Fail / Factor | Annual Cost | Y1 Cost (| Y2 Sost C | r3 Y4 ost Cos | ų | Υ5 Cost | Y5 Y6 Cost Cost | Y5 Y6 Y7 Cost Cost Cost | Y5 Y6 Y7 Y8 Cost Cost Cost |
| LAMP | 15.5PAR38DIM/940FL40 15.5W LED PAR38 E26 4000K Dimmable 90CRI - 120W Halogen Equivalent | Q | \$22.87 | \$5.00 | 50,000 | 5 | 2,160 | 0.10 | \$0.72 | \$0 | \$0 | 0 \$0 | | \$0 | \$0 \$1 | \$0 \$1 \$1 | \$0 \$1 \$1 \$1 |
| LAMP | 5.5PLS/840/HYB/GX23 5.5W LED Hybrid PLS GX23 4000K - 13W CFL Equivalent | 16 | \$12.99 | \$5.00 | 50,000 | 5 | 3,675 | 0.10 | \$2.12 | \$0 | \$0 | 0 \$0 | | \$0 | \$0 \$2 | \$0 \$2 \$2 | \$0 \$2 \$2 \$2 |
| LAMP | 9A19/840/277V 9W LED A19 E26 4000K 120-277V - 60W Incandescent Equivalent | 9 | \$4.31 | \$5.00 | 25,000 | с | 2,400 | 0.10 | \$0.54 | \$0 | \$0 | 0 \$1 | | \$1 | \$1 \$1 | \$1 \$1 \$1 | \$1 \$1 \$1 \$1 |
| LAMP | 9A19/940/277 9W LED A19 E26 4000K 120-277V 92CRI - 60W Incandescent Equivalent | 5 | \$4.31 | \$5.00 | 25,000 | 5 | 250 | 0.10 | \$0.02 | \$0 | \$0 | 0 \$0 | | \$0 | \$0 | 0\$ 0\$ 0\$ | \$0 \$0 \$0 |
| LAMP | 9PLO/840/HYBM 9W LED Hybrid PLO G24q & GX24q (4-pin) Based 40K - 26W CFL Equivalent | 10 | \$19.37 | \$5.00 | 50,000 | ъ | 250 | 0.10 | \$0.12 | \$0 | \$0 | 0 \$0 | | \$0 | \$0 \$0 | 0\$ 0\$ 0\$ | 0\$ 0\$ 0\$ 0\$ |

\$2

\$2

\$2

\$2

\$2

\$2

\$2

\$2

\$0

\$0

\$2.33

0.10

4,368

 \sim

15,000

\$0.00

\$1.95

4

KT-LED9.5A19-0-850 9.5W LED A19 E26 5000K Dimmable -60W Halogen Equivalent

LAMP

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0.09

0.10

2,160

ß

50,000

\$5.00

\$5.75

 \sim

T8LACD2F9/840B25EC

LAMP

ISD #256 Red Wing Public Schools Burnside Elementary - Fixture/Kit Option



| | LAMP | LAMP | КIТ | КIТ | KIT | КIТ | КТ | ЦХ | ТIХ | КТ | КЦ | КIТ | Ц | FIXTURE |
|--------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 9W 2' LED Type B T8 Lamp 4000K | T8LACD3F12/840B25EC 12W 3' LED Type B T8 Lamp 4000K | T8LACD4F12/840B25EC 12W 4' LED Type B T8 Lamp 4000K | EvoKit 2x2 31L 22W 840 UNV 0-10 G5 22W 2x2 LED Troffer Retrofit Kit, 4,000K, 3,100 Nominal Lumens, and 0-10V Dimming Driver | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 28W 2x4 LED Troffer Retrofit Kit, 4200 Lumens, 4000K | Evokit HE 2x4 30L 19W 840 UNV 0-10 G5 19W 2x4 HE Troffer Retrofit Kit, 4000K | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 28W 2x4 LED Troffer Retrofit Kit, 4200 Lumens, 4000K with Step Dimming Driver | K-24LT-F4N0-2S.40-FR-D 30W LED 2x4 lensed troffer retrofit kit, 4425 initial lumens, 4000K color temp, with frosted lens, Dimming | K-24LT-FAN6-2S-40-FR-SD 36W LED 2x4 lensed troffer retrofit kit, 5298 initial lumens, 4000K color temp, with frosted lens and 30/50/100 Step Dimming Driver | LBK 3FT 1 2000LMHE 80CRI 40K MIN10 ZT MVOLT 13.5W 3ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT 19.5W 4ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR8 07LM 40K AR LSS MWD MVOLT UGZ 9W LBR8 8" Recessed Can, 832 Nominal Lumens in 40K, Medium Distribution | F-24LX-L4H-RGBW-FR-CAS 38W 2x4 LX Series Fixture, 38W, 4635 |
| | 4 | 364 | ~ | 113 | 168 | 6 | 375 | 4 | 15 | 10 | 27 | ~ | - | 58 |
| | \$5.75 | \$5.75 | \$82.64 | \$105.80 | \$105.80 | \$123.45 | \$149.89 | \$95.17 | \$101.90 | \$44.60 | \$41.72 | \$64.66 | \$52.24 | \$316.44 |
| | \$5.00 | \$5.00 | \$10.00 | \$10.00 |) \$10.00 | \$10.00 | \$10.00 | \$10.00 | \$10.00 | \$10.00 | \$10.00 | \$0.00 | \$10.00 | \$10.00 |
| | 50,000 | 50,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 0 | 100,00 | 60,000 | 60,000 | 60,000 | 60,000 | 150.00 |
| | 5 | 5 | 2 D | 2 | 5 | 2 Q | 2 D | 2J | сл O | 2 D | 2 D | 2 D | 2 D | |
| | 3,3, | 2,59 | 3,90 | 3,73 | 2,3⁄ | 2,40 | 2,4(| 2,16 | 2,16 | 2,16 | 2,16 | 4,36 | 1,80 | 1 |
| | 17 0.10 | 96 0.10 | 00 0.10 | 38 0.10 | 18 0.10 | 0 0.10 | 0.10 | 0.10 | 0 0.10 | 0.10 | 0.10 | 38 0.10 | 0 0.10 | ç |
| | \$1.(| 0 \$20. | 0 \$0.ť | 0 \$69. | 0 \$65. |) \$4.° | 3 \$206 |).0 \$ C | 33.6 | \$1.5 | 0 \$5.(| \$3.5 | .0\$ | 610 019 |
| |)\$ 00 | 32 \$(| 52 \$(| 88 | 24 \$(| 12 \$(| .03 \$(| 00 | 8 33 | 97 \$(| 33 \$(| 30 \$(| 19 \$(| e L |
| | \$0 | \$0 | 0\$ 0 | 0\$ 0 | 0\$ 0 | \$0 | 0\$ 0 | 0\$ 0 | \$0 | \$0 | 0\$ 0 | \$0 | \$0 | é |
| | \$0 | \$0 | 0\$ | \$0 | \$0 | \$0 | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | : |
| | \$0 | \$0 | 0\$ | \$0 | \$0 | \$0 | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 3 |
| | \$0 | \$0 | 0\$ | 0\$ | \$0 | \$0 | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | \$0 | : |
| | \$1 | \$20 | \$1 | \$70 | \$65 | \$\$ | \$206 | \$0 | \$ | \$2 | \$5 | \$3 | \$0 | |
| | \$1 | \$20 | \$ | \$70 | \$65 | \$4 | \$206 | 0\$ | \$ | \$2 | \$5 | \$3 | \$0 | |
| | \$1 | \$20 | \$1 | \$70 | \$65 | \$4 | \$206 | 0\$ | \$ | \$2 | \$5 | \$3 | \$0 | |
| | \$1 | \$20 | \$1 | \$70 | \$65 | \$4 | \$206 | 0\$ | \$\$ | \$2 | \$5 | \$3 | \$0 | |
| | \$ | \$20 | \$ | \$70 | \$65 | \$4 | \$206 | 0\$ | \$4 | \$2 | \$5 | \$3 | \$0 | |

Burnside Flamentary - Fixture/Kit Ontion ISD #256 Red Wing Public Schools



\$3

\$3

\$3

\$3

\$3

| | \$0 | 0\$ | \$0 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| | 0\$ | \$ | \$0 |
| | 0 \$ | \$ | \$0 |
| | \$0 | \$ | \$0 |
| | 0\$ | 0\$ | 0\$ |
| | \$2.77 | \$29.12 | \$2.36 |
| | 0.10 | 0.10 | 0.10 |
| | 4,160 | 2,184 | 2,190 |
| | сı | Ŋ | ß |
| | 100,000 | 60,000 | 100,000 |
| | \$10.00 | \$10.00 | \$0.00 |
| | \$323.28 | \$323.28 | \$539.08 |
| | 7 | 24 | 7 |
| ізіце сіепіенцагу - гіхциге/мі Орцон | FEM L48 4000LM LPPFL WD MVOLT GZ10 40K 80CRI STSL E 24W LED 4' Vaportight - 4000K, wide distribution, polycarbonate low profile frosted lens, 0-10V Dimming | IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI NLTAIR2 RIO WGX DWH 105W IBG LED High Bay Fixture, 5000K, E 18000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device | RSX2 LED P3 50K R2 MVOLT SPA DDBXD E 147W RSX2 LED Area Light, Type 2 |
| Ing | FIXTUR | FIXTUR | FIXTUR |
| | | | |

| \$29 | \$2 | \$7 | \$ \$ | 6\$ | \$0 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--|
| \$29 | \$2 | \$7 | ŝ | 6\$ | \$0 | |
| \$29 | \$2 | \$7 | \$ \$ | 6\$ | \$0 | |
| \$29 | \$2 | 2\$ | \$2 | 6\$ | \$0 | |
| \$29 | \$2 | \$7 | \$2 | \$6 | \$0 | |
| 0\$ | 0\$ | 0\$ | 0\$ | \$0 | \$0 | |
| 0\$ | \$0 | 0\$ | \$0 | \$0 | \$0 | |
| 0\$ | 0\$ | 0\$ | 0\$ | \$0 | \$0 | |
| 0 \$ | \$0 | 0\$ | \$ | \$0 | 0\$ | |
| 0\$ | 0\$ | 0\$ | 0\$ | \$0 | \$0 | |
| \$29.12 | \$2.36 | \$7.16 | \$4.97 | \$9.31 | \$47.94 | |
| 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | |
| 2,184 | 2,190 | 2,190 | 2,190 | 2,589 | 4,368 | |
| Ŋ | сл | D | Ŋ | ณ | 10 | |
| 60,000 | 100,000 | 100,000 | 100,000 | 60,000 | 100,000 | |
| \$10.00 | \$0.00 | \$0.00 | \$0.00 | \$10.00 | \$0.00 | |
| \$323.28 | \$539.08 | \$544.83 | \$567.82 | \$229.66 | \$255.23 | |
| 24 | N | Q | 4 | ŋ | 43 | |
| IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI NLTAIR2 RIO WGX DWH 105W IBG LED High Bay Fixture, 5000K, 1800 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish – Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device | RSX2 LED P3 50K R2 MVOLT SPA DDBXD 147W RSX2 LED Area Light, Type 2 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P4 50K R4 MVOLT SPA DDBXD 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish Finish, 120-277V - Includes Square Pole Mounting | RSX2 LED P5 50K R5 MVOLT SPA DDBXD 210W RSX2 LED Area Light, Type 5 Wide Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | STL4-30L-EZ1-LP840 27W LED Surface Mount Volumetric Fixture 4000K | XSPW-B-WM-4ME-4L-50K-UL-BZ 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | |
| FIXTURE | FIXTURE | FIXTURE | FIXTURE | FIXTURE | FIXTURE | |

Estimated Average Yearly Savings \$<mark>.</mark>00



Energy Savings Summary

The following graphs and tables show the annual energy savings expected with the proposed design, based on annual usage hours and a utility rate of \$0.1148 per kWh.





Area Detail

| | Bu | rnside Elementary | 1 | |
|----------------------|-----------------------|-------------------------------|--------------------------|------------------------|
| Area | Energy Reduction % | Avg. Burn Hour Reduction % | Annual Energy Savings | Annual HVAC Savings |
| Exterior | 60% | 5% | \$2,795 | \$0 |
| Interior | 51% | 1% | \$9,240 | \$0 |
| Interior - Mezzanine | 60% | 0% | \$39 | \$0 |
| | Total N | umber of Fixtures: 1 | 1,240 | |



Fixture Summary



| Proposed | d Actions |
|------------|-----------|
| Retrofit | 1,004 |
| Do Nothing | 119 |
| Replace | 59 |
| Relamp | 58 |

Fixture Breakdown

| Existi | ng | | Propos | sed | | | Savings |
|--------------------------------------------|-----|-------|-----------------------------------------------|-----|-------|------------|---------|
| Fixture Name | Qty | Watts | Solution Name | Qty | Watts | Action | Watts |
| 10L 25W LF4 T8 [3x ELE T8 IS NP] | 2 | 426 | Lithonia-LBK 4FT 1 3000 40K (5) | 2 | 195 | Retrofit | 231 |
| 1L 100W HPS MED BASE HID [1x MAG] | 22 | 2,772 | CREE-XSPW-40W-50K-T4-DB | 22 | 880 | Replace | 1,892 |
| 1L 100W LED COB [1x LED DRIVER] | 2 | 200 | | 2 | 200 | Do Nothing | 0 |
| 1L 12W LEDS-M A19 [0x NULL] | 41 | 492 | KEYSTONE-9.5W-A19-50K-1L | 41 | 390 | Relamp | 103 |
| 1L 150W INCS-M PAR38 [0x NULL] | 6 | 900 | GC-17W-PAR38-40K-1L-277V | 6 | 102 | Relamp | 798 |
| 1L 16W LED COB [1x LED DRIVER] | 1 | 16 | | 1 | 16 | Do Nothing | 0 |
| 1L 20W LED Array [1x LED DRIVER] | 97 | 1,940 | | 97 | 1,940 | Do Nothing | 0 |
| 1L 20W LED COB [1x LED DRIVER] | 5 | 100 | | 5 | 100 | Do Nothing | 0 |
| 1L 22W LEDS-M COB [0x edit | 21 | 462 | CREE-XSPW-40W-50K-T4-DB | 21 | 840 | Replace | -378 |
| 1L 23W CFS-M Triple tube [0x Null | 2 | 46 | GC-16.5W-A21-40K-1L | 2 | 33 | Relamp | 13 |
| 1L 30W LED Linear Board [1x LED DRIVER] | 2 | 60 | | 2 | 60 | Do Nothing | 0 |
| 1L 400W HPS MOG BASE HID [1x MAG] | 2 | 914 | LITHONIA-RSX2-147W-50K-R2-MVOLT- SPA-DDBXD | 2 | 294 | Replace | 620 |
| | | | | | | | |

ISD #256 Red Wing Public Schools Burnside Elementary - Fixture/Kit Option



| 1L 400W HPS MOG BASE HID [1x MAG] | 6 | 2,742 | LITHONIA-RSX2-187W-50K-R4-MVOLT- SPA-DDBXD | 6 | 1,122 | Replace | 1,620 |
|--------------------------------------------|-----|-------|-----------------------------------------------|-----|-------|------------|-------|
| 1L 400W HPS MOG BASE HID [1x MAG] | 4 | 1,828 | LITHONIA-RSX2-210W-50K-R5-MVOLT- SPA-DDBXD | 4 | 840 | Replace | 988 |
| 1L 400W HPS MOG BASE HID [1x MAG] | 4 | 1,828 | Remove | 4 | 0 | Replace | 1,828 |
| 1L 40W LED Linear Board [1x LED DRIVER] | 1 | 40 | | 1 | 40 | Do Nothing | 0 |
| 1L 40W LED Linear Board [1x LED DRIVER] | 1 | 40 | PHILIPS-EVOKIT2X2-22W-40K-D | 1 | 40 | Do Nothing | 0 |
| 1L 44W LED COB [1x LED DRIVER] | 2 | 88 | | 2 | 88 | Do Nothing | 0 |
| 1L 60W INCS-M A19 [0x NULL] | 2 | 120 | GC-9W-A19-40K-1L | 2 | 18 | Relamp | 102 |
| 1L 63W LED Array [1x LED DRIVER] | 1 | 63 | | 1 | 63 | Do Nothing | 0 |
| 1L 70W HPS MED BASE HID [1x MAG] | 7 | 602 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 7 | 91 | Retrofit | 511 |
| 2L 13W CFS-M SPIRAL [0x NULL] | 1 | 26 | GC-9W-A19-40K-2L | 1 | 18 | Relamp | 8 |
| 2L 15W LL4A T8 [1x ELE T8 IS NP] | 2 | 68 | LITHONIA-FEM-24W-40K-LPPFL-STSL | 2 | 68 | Do Nothing | 0 |
| 2L 17W LF2 T8 [1x ELE T8 IS NP] | 1 | 31 | | 1 | 31 | Do Nothing | 0 |
| 2L 17W LF2 T8 [1x ELE T8 IS NP] | 1 | 31 | ULT-224-9W-40K-DE | 1 | 18 | Retrofit | 13 |
| 2L 25W LF3 T8 [1x ELE T8 IS NP] | 10 | 430 | Lithonia-LBK 3FT 1 2000 40K | 10 | 135 | Retrofit | 295 |
| 2L 25W LF3 T8 [1x ELE T8 IS NP] | 7 | 301 | ULT-236-12W-40-DE | 7 | 168 | Retrofit | 133 |
| 2L 25W LF4 T8 [1x ELE T8 DIM NP] | 8 | 344 | PHILLIPS-EVOKIT2X4-25W-40K | 8 | 200 | Retrofit | 144 |
| 2L 25W LF4 T8 [1x ELE T8 DIM NP] | 21 | 903 | ULT-248-12W-40K-DE | 21 | 504 | Retrofit | 399 |
| 2L 25W LF4 T8 [1x ELE T8 IS NP] | 17 | 731 | Lithonia-LBK 4FT 1 3000 40K | 17 | 332 | Retrofit | 400 |
| 2L 25W LF4 T8 [1x ELE T8 IS NP] | 42 | 1,806 | PHILIPS-EVOKIT2X4-28W-40K-D | 42 | 1,176 | Retrofit | 630 |
| 2L 25W LF4 T8 [1x ELE T8 IS NP] | 105 | 4,515 | PHILLIPS-EVOKIT2X4-25W-40K | 105 | 2,625 | Retrofit | 1,890 |
| 2L 25W LF4 T8 [1x ELE T8 IS NP] | 28 | 1,204 | ULT-248-12W-40K-DE | 28 | 672 | Retrofit | 532 |
| 2L 25W LF4 T8 [1x ELE T8 IS NP] | 88 | 3,784 | ULT-248-12W-40K-DE | 88 | 2,112 | Retrofit | 1,672 |

ISD #256 Red Wing Public Schools Burnside Elementary - Fixture/Kit Option



| 2L 25W LF4 T8 [1x ELE T8 IS NP] | 9 | 387 | LITHONIA-STL4-27W-40K | 9 | 243 | Retrofit | 144 |
|---------------------------------------------|-----|--------|-----------------------------------------------|-----|--------|------------|--------|
| 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | 4 | 208 | GC-9W-PLO-40K-2L | 4 | 72 | Retrofit | 136 |
| 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | 1 | 52 | LITHONIA-LBR8-9W-40K-MWD-MVOLT- UGZ | 1 | 9 | Retrofit | 43 |
| 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | 1 | 52 | GC-9W-PLO-40K-2L | 1 | 18 | Retrofit | 34 |
| 2L 32W LF4 T8 [1x ELE T8 IS NP] | 37 | 2,146 | ULT-248-12W-40K-DE | 37 | 888 | Retrofit | 1,258 |
| 2L 60W INCS-M A19 [0x NULL] | 2 | 240 | GC-9W-A19-40K-2L | 2 | 36 | Relamp | 204 |
| 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] | 4 | 56 | GC-5.5W-PLS-40K-2L | 4 | 56 | Do Nothing | 0 |
| 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] | 4 | 56 | GC-5.5W-PLS-40K-2L | 4 | 44 | Relamp | 12 |
| 3L 25W LF4 T8 [1x ELE T8 IS NP] | 2 | 126 | ESI-F-24LX-38W-RGBW-MC | 2 | 76 | Retrofit | 50 |
| 3L 25W LF4 T8 [1x ELE T8 IS NP] | 61 | 3,843 | PHILIPS-EVOKIT2X4-28W-40K-D | 61 | 1,708 | Retrofit | 2,135 |
| 3L 25W LF4 T8 [1x ELE T8 IS NP] | 4 | 252 | ULT-348-12W-40K-DE | 4 | 144 | Retrofit | 108 |
| 3L 25W LF4 T8 [1x ELE T8 IS NP] | 4 | 252 | ESI-K-24LT-F4N0-2S-40-FR-D | 4 | 120 | Retrofit | 132 |
| 3L 25W LF4 T8 [1x ELE T8 IS NP] | 15 | 945 | ESI-K-24LT-F4N6-2S-40-FR-SD | 15 | 540 | Retrofit | 405 |
| 3L 25W LF4 T8 [2x ELE T8 IS NP] | 52 | 3,484 | ESI-F-24LX-38W-RGBW-MC | 52 | 1,976 | Retrofit | 1,508 |
| 3L 25W LF4 T8 [2x ELE T8 IS NP] | 48 | 3,216 | PHILIPS-EVOKIT2X4-28W-40K-D | 48 | 1,344 | Retrofit | 1,872 |
| 3L 25W LF4 T8 [2x ELE T8 IS NP] | 375 | 25,125 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 375 | 10,500 | Retrofit | 14,625 |
| 3L 25W LF4 T8 [2x ELE T8 IS NP] | 4 | 268 | ESI-F-24LX-38W-RGBW-MC | 4 | 152 | Retrofit | 116 |
| 3L 25W LF4 T8 [2x ELE T8 IS NP] | 9 | 603 | PHILIPS-EVOKIT2x4-19W-40K-HE | 9 | 171 | Retrofit | 432 |
| 3L 25W LF4 T8 [2x ELE T8 IS NP] | 17 | 1,139 | PHILIPS-EVOKIT2X4-28W-40K-D | 17 | 476 | Retrofit | 663 |
| 4L 25W LF4 T8 [1x ELE T8 IS NP] | 1 | 85 | ULT-448-12W-40K-DE | 1 | 48 | Retrofit | 37 |
| 6L 25W LF4 T8 [2x ELE T8 IS NP] | 24 | 3,024 | LITHONIA-IBG-105W-50K-AFL-GND- RIO-WGX-DWH | 24 | 2,520 | Retrofit | 504 |



Fixture Detail

| \$0 | | Maintenance | | O\$ | \$0 | \$0 | \$0 | 0\$ | \$0 | \$0 | \$0 | 0\$ | 0\$ | 80 |
|----------|----------|-------------|--------------------|--------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------|
| \$0 | ßs | HVAC | | 0\$ | \$0 | 0 \$ | 0 \$ | \$0 | \$0 | 0\$ | 0 \$ | \$0 | 0\$ | 0\$ |
| \$12,074 | Savinç | Energy | | 0 \$ | \$18 | \$3 | \$3 | \$43 | 6\$- ' | \$43 | 6 \$ - | \$43 | \$43 | 837 |
| \$20,233 | l | Rebates | | 0\$ | \$0 | \$0 | \$0 | 0\$ | \$0 | 0\$ | \$0 | 0\$ | 0\$ | Ģ |
| | | Ctrl Qty | | o | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | c |
| 94,440 | | kWh | | 175 | 581 | 83 | 83 | 175 | 175 | 175 | 175 | 175 | 175 |] |
| | ition | Burn | | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 1 260 |
| | sed Solu | % Red. | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | c |
| 1240 | Propo | oty | | Ν | 14 | 7 | 7 | - | ~ | - | - | - | ~ | |
| | | Watts | | 20.0 | 9.5 | 9.5 | 9.5 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 0 |
| | | Proposed | | Do Nothing | KEYSTONE-9.5W- A19-50K-1L | KEYSTONE-9.5W- A19-50K-1L | KEYSTONE-9.5W- A19-50K-1L | CREE-XSPW-40W- 50K-T4-DB | CREE-XSPW-40W- 50K-T4-DB | CREE-XSPW-40W- 50K-T4-DB | CREE-XSPW-40W- 50K-T4-DB | CREE-XSPW-40W- 50K-T4-DB | CREE-XSPW-40W- 50K-T4-DB | LITHONIA-LBR6- |
| 199,614 | l | kWh | | 175 | 734 | 105 | 105 | 550 | 96 | 550 | 96 | 550 | 550 | |
| | | Burn | | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 4,368 | 0001 |
| 1240 | isting | Qty | | Ν | 4 | 7 | 7 | - | ~ | - | ~ | - | - | Ŧ |
| | Ex | Watts | | 20.0 | 12.0 | 12.0 | 12.0 | 126.0 | 22.0 | 126.0 | 22.0 | 126.0 | 126.0 | 000 |
| | | Existing | nentary / Exterior | 1L 20W LED COB [1x LED DRIVER]/ Recessed Can 6" Can Recessed | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 1L 70W HPS |
| Totals | Area | Room | Burnside Elen | Door 1 | Door 1 | Door 2 | Door 3 | WP 1 | WP 2 | WP 3 | WP 4 | WP 5 | WP 6 | |

Page 16 of 59

| ublic Schools | - Fixture/Kit Option |
|---------------|----------------------|
| Red Wing Pi | Elementary |
| ISD #256 | Burnside |



| Area | | Ē | isting | | | | | Propos | ed Soluti | on | | | | Savings | | |
|---------|----------------------------------------------------------------------------|-------|--------|-------|-----|---------------------------------------------------|-------|--------------|-----------|-------|-----|----------|---------|----------|---------|-------------|
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty | % Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC | Maintenance |
| | Recessed Can 6" Can Recessed | | | | | | | | | | | | | | | |
| Door 5 | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 12.0 | с | 4,368 | 157 | KEYSTONE-9.5W- A19-50K-1L | 9.5 | т | 0 | 4,368 | 124 | o | \$0 | \$ | \$0 | \$0 |
| WP 7 | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 22.0 | - | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | 0 \$- | \$0 | \$0 |
| WP 8 | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 22.0 | ~ | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | 0\$ | 0 \$- | \$0 | \$0 |
| 6 ЧМ | 1L 100W HPS MED BASE HID [1× MAG]/ walipack wall | 126.0 | ← | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | \$43 | 0 \$ | 0\$ |
| WP 10 | 1L 100W HPS MED BASE HID [1x MAG]/ Wallpack Wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | \$43 | 0 | 0\$ |
| WP 11 | 1L 100W HPS MED BASE HID [1× MAG]/ walipack wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | 0\$ | \$43 | 0 \$ | 0\$ |
| WP 12 | 1L 100W HPS MED BASE HID [1x MAG]/ Wallpack Wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | 0 | \$0 | \$43 | 0 \$ | Q\$ |
| WP 13 | 1L 100W HPS MED BASE HID [1× MAG]/ walipack wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | 0\$ | \$43 | 0 \$ | 0\$ |
| WP 14 | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 22.0 | ~ | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | 0 \$- | \$0 | \$0 |
| WP 15 | 1L 100W HPS MED BASE HID [1× MAG]/ walipack wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | . | 0 | 4,368 | 175 | 0 | 0\$ | \$43 | \$0 | 0\$ |
| Door 13 | 1L 70W HPS MED BASE HID [1× MAG]/ Recessed Can 6" Can Recessed | 86.0 | - | 4,368 | 376 | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | 13.0 | ~ | 0 | 4,368 | 57 | 0 | 0 \$ | \$37 | 0 | Q \$ |
| WP 16 | 1L 100W HPS MED BASE HID [1x MAG]/ wailpack wail | 126.0 | ~ | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | 0 | 0\$ | \$43 | 0\$ | 0\$ |

| | -14 |
|--------|-------|
| S | 0 |
| School | 4:20 |
| Public | 100 |
| Wing | |
| Red | Ē |
| #256 | opion |
| SD | |



н

| Burnside | Elementary - Fi | ixture/Ki | it Optio | n | | | | | | | | | | | | |
|----------|----------------------------------------------------------------------------|-----------|--------------|-------|-----|---------------------------------------------------|-------|--------------|-----------|-------|-----|----------|---------|---------------|------|-----------------|
| Area | | ú | kisting | | | | | Propose | d Solutic | n | | | | Savings | | |
| Room | Existing | Watts | oty | Burn | kWh | Proposed | Watts | Qty , | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC | Maintenance |
| WP 17 | 1L 100W HPS MED BASE HID [1x MAG]/ Wallpack Wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | o | 4,368 | 175 | o | 0\$ | \$43 | 0\$ | 0\$ |
| WP 18 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | - | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | රා ඉං - | 0\$ | \$0 |
| WP 19 | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | o | 0\$ | \$43 | 0\$ | 0\$ |
| WP 20 | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 22.0 | | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | 0 | 0\$ | ୦ ୫- | 0\$ | 0\$ |
| WP 21 | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 126.0 | | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | 0 | 0\$ | \$43 | 0\$ | 0\$ |
| Door 15 | 1L 70W HPS MED BASE HID [1x MAG]/ Recessed can 6" Can Recessed | 86.0 | - | 4,368 | 376 | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | 13.0 | - | 0 | 4,368 | 57 | o | 0 | \$37 | \$0 | 0 \$ |
| Door 15 | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 12.0 | б | 4,368 | 157 | KEYSTONE-9.5W- A19-50K-1L | 9.5 | с | 0 | 4,368 | 124 | 0 | \$0 | \$ | 0\$ | 0\$ |
| WP 22 | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 126.0 | | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | o | \$0 | \$43 | 0\$ | 0\$ |
| WP 23 | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 22.0 | . | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | ୦ ୫ - | \$0 | \$ |
| WP 24 | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 22.0 | . | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | 0\$- | 0\$ | \$ |
| WP 25 | 1L 100W HPS MED BASE HID [1x MAG]/ Wallpack Wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | \$43 | 0\$ | 0\$ |
| WP 26 | 1L 100W HPS MED BASE HID [1x MAG]/ wallpack wall | 126.0 | | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | o | 0\$ | \$43 | 0\$ | 0\$ |
| Door 17 | 1L 70W HPS MED BASE HID [1x MAG]/ Recessed Can 6" Can Recessed | 86.0 | - | 4,368 | 376 | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | 13.0 | ~ | 0 | 4,368 | 57 | o | 0\$ | \$37 | 0\$ | 0\$ |

ISD #256 Red Wing Public Schools Burnside Elementary - Fixture/Kit Option



| | | VIALOUN | | | | | | | | | | | | | | |
|---------|----------------------------------------------------------------------------|---------|-------------|-------|-----|---------------------------------------------------|-------|-------------|-----------|-------|-----|----------|---------|-----------|--------|-------------|
| Area | | Ex | isting | | | | | Propose | d Solutio | c | | | l | Savings | | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty % | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | Maintenance |
| WP 27 | 1L 100W HPS MED BASE HID [1x MAG]/ Wallpack Wall | 126.0 | | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | 0\$ | \$43 | 0\$ | 0\$ |
| WP 28 | 1L 100W HPS MED BASE HID [1x MAG/ Wallpack Wall | 126.0 | | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | | 0 | 4,368 | 175 | 0 | \$0 | \$43 | 0\$ | 0\$ |
| WP 29 | 1L 100W HPS MED BASE HID [1x MAG/ Wallpack wall | 126.0 | | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | | 0 | 4,368 | 175 | 0 | \$0 | \$43 | 0\$ | \$0 |
| WP 29 | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 12.0 | 0 | 4,368 | 105 | KEYSTONE-9.5W- A19-50K-1L | 9.5 | 5 | 0 | 4,368 | 83 | 0 | \$0 | \$3 | \$0 | 0\$ |
| WP 30 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | | 0 | 4,368 | 175 | 0 | \$0 | 0 \$- | \$0 | 0\$ |
| WP 31 | 1L 100W HPS MED BASE HID [1x MAG/ Wallpack Wall | 126.0 | | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | | 0 | 4,368 | 175 | 0 | \$0 | \$43 | 0\$ | 0\$ |
| WP 31 | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 12.0 | 0 | 4,368 | 105 | KEYSTONE-9.5W- A19-50K-1L | 9.5 | 5 | 0 | 4,368 | 83 | 0 | \$0 | \$3 | \$0 | 0\$ |
| WP 32 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | | 0 | 4,368 | 175 | 0 | \$0 | 0 \$- | \$0 | \$0 |
| WP 33 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | | 0 | 4,368 | 175 | 0 | \$0 | 0 \$- | \$0 | \$0 |
| WP 34 | 1L 22W LEDS-M COB [0x edit/ wallpack * wall | 22.0 | | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | 0 | \$0 | 0\$- - | \$0 | \$0 |
| WP 35 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | | 0 | 4,368 | 175 | 0 | \$0 | 0\$- - | \$0 | 0\$ |
| WP 36 | 1L 100W HPS MED BASE HID [1x MAG]/ Wallpack wall | 126.0 | - | 4,368 | 550 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | 0\$ | \$43 | 0 | 0\$ |
| Door 20 | 1L 70W HPS MED BASE HID [1x MAG]/ Recessed Can 6" Can Recessed | 86.0 | ~ | 4,368 | 376 | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | 13.0 | ~ | 0 | 4,368 | 57 | 0 | 0\$ | \$37 | 0\$ | 0\$ |
| FL 1 | 1L 63W LED Array [1× LED DRIVERJ | 63.0 | - | 4,368 | 275 | Do Nothing | 63.0 | ~ | 0 | 4,368 | 275 | 0 | 0\$ | \$0 | \$0 | \$0 |
| ing Public Schools | ntary - Fivtura/Kit Onti |
|--------------------|--------------------------|
| Red V | Flom |
| ISD #256 | Burneide |



| Burnside | Elementary - Fi | IXTUFe/NI | t Uptio | u | | | | | | | | | | | | |
|-------------|----------------------------------------------------------------------------|-----------|---------|-------|-------|---------------------------------------------------|-------|---------|-----------|-------|-----|----------|---------|--------------|--------|-------------|
| Area | | Ex | isting | | | | | Propose | d Solutic | u | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty % | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | laintenance |
| | Flood Wall | | | | | | | | | | | | | | | |
| WP 37 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | ~ | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | ୦୫ - | \$0 | \$0 |
| WP 38 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | ~ | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | ୦ ୫ | \$0 | \$0 |
| WP 39 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | - | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | 0 % | \$0 | \$0 |
| Door 21 | 1L 70W HPS MED BASE HID [1x MAG]/ Recessed Can 6" Can Recessed | 86.0 | - | 4,368 | 376 | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | 13.0 | - | 0 | 4,368 | 57 | o | O\$ | \$37 | \$0 | 0\$ |
| Door 21 | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount* Wall | 12.0 | с | 4,368 | 157 | KEYSTONE-9.5W- A19-50K-1L | 9.5 | ę | 0 | 4,368 | 124 | 0 | \$0 | 8 | \$0 | \$0 |
| WP 40 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | - | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | ୦ ୫' | \$0 | \$0 |
| WP 41 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | - | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | ୦ ୫ | \$0 | \$0 |
| WP 42 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | ~ | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | ~ | 0 | 4,368 | 175 | 0 | \$0 | 0 % ' | \$0 | \$0 |
| WP 43 | 1L 22W LEDS-M COB [0x edit/ Wallpack * Wall | 22.0 | - | 4,368 | 96 | CREE-XSPW-40W- 50K-T4-DB | 40.0 | - | 0 | 4,368 | 175 | 0 | \$0 | 0 % ' | \$0 | \$0 |
| Door 22 | 1L 70W HPS MED BASE HID [1x MAG]/ Recessed Can 6" Can Recessed | 86.0 | - | 4,368 | 376 | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | 13.0 | - | 0 | 4,368 | 57 | o | O S | \$37 | \$0 | \$0 |
| Door 22 | 1L 12W LEDS-M A19 [0x NULL]/ Wall Mount * Wall | 12.0 | 10 | 4,368 | 524 | KEYSTONE-9.5W- A19-50K-1L | 9.5 | 10 | 0 | 4,368 | 415 | 0 | \$0 | \$13 | \$0 | \$0 |
| Flag Pole 1 | 1L 16W LED COB [1x LED DRIVER]/ Flood Wall | 16.0 | ~ | 4,368 | 70 | Do Nothing | 16.0 | ← | 0 | 4,368 | 20 | 0 | 0\$ | \$ | 0\$ | \$0 |
| Pole 1 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | ← | 2,190 | 1,001 | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | 187.0 | ← | 0 | 2,190 | 410 | 0 | 0\$ | \$68 | 0\$ | \$0 |

| 10 | (|
|----------|-----|
| 0, | |
| _ | |
| 0 | |
| 0 | -2 |
| <u> </u> | - |
| | |
| C > | |
| | |
| 0) | |
| | |
| 0 | |
| | |
| _ | L |
| | |
| _ | |
| _ | |
| 0. | |
| _ | |
| 5 | |
| ~ | |
| | |
| | |
| ~ | |
| > | |
| | |
| 0 | |
| ā | |
| | ï |
| CC . | |
| | |
| 0 | |
| io. | |
| 147 | |
| 2 | |
| 225 | |
| 1.44 | |
| 0 | |
| | |
| 10 | |
| ~/ | - 1 |



| Burnside |) Elementary - F | ixture/Ki | it Optic | uc | | | | | | | | | | | NOTION . | |
|----------|-------------------------------------------------------------|-----------|----------|-------|-------|---------------------------------------------------|-------|-------------|-----------|-------|-----|----------|---------|-----------|----------|-------------|
| Area | | ú | kisting | | | | | Propose | d Solutio | uc | | | | Savings | | |
| Room | Existing | Watts | oty | Burn | kWh | Proposed | Watts | Qty . | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | laintenance |
| Pole 2 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | ~ | 2,190 | 1,001 | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | 187.0 | - | 0 | 2,190 | 410 | o | O\$ | \$0 \$ | 0\$ | Q \$ |
| Pole 3 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | - | 2,190 | 1,001 | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | 187.0 | ~ | 0 | 2,190 | 410 | o | \$ | \$68 | \$0 | \$0 |
| Pole 4 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | ~ | 2,190 | 1,001 | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | 187.0 | ~ | 0 | 2,190 | 410 | 0 | \$ | \$68 | \$0 | \$0 |
| Pole 5 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | - | 2,190 | 1,001 | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | 210.0 | | 0 | 2,190 | 460 | o | 0\$ | \$62 | \$0 | \$0 |
| Pole 5 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | - | 4,368 | 1,996 | Remove | O. | ~ | 100 | o | o | o | \$ | \$229 | \$0 | \$0 |
| Pole 6 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | - | 2,190 | 1,001 | LITHONIA-RSX2- 147W-50K-R2- MVOLT-SPA-DDBXD | 147.0 | ~ | 0 | 2,190 | 322 | o | \$ | \$78 | \$0 | \$0 |
| Pole 7 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | ~ | 2,190 | 1,001 | LITHONIA-RSX2- 147W-50K-R2- MVOLT-SPA-DDBXD | 147.0 | ~ | 0 | 2,190 | 322 | 0 | \$ | \$78 | \$0 | \$0 |
| Pole 8 | 1L 400W HPS MOG BASE HID [1× MAG]/ Pole Light Pole | 457.0 | - | 2,190 | 1,001 | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | 210.0 | - | 0 | 2,190 | 460 | 0 | 0\$ | \$62 | 0\$ | \$0 |
| Pole 8 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | - | 4,368 | 1,996 | Remove | O. | ~ | 100 | 0 | o | o | 0\$ | \$229 | \$0 | \$0 |
| Pole 9 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | - | 2,190 | 1,001 | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | 210.0 | ~ | 0 | 2,190 | 460 | o | \$ | \$62 | \$0 | \$0 |
| Pole 9 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | - | 4,368 | 1,996 | Remove | O. | ~ | 100 | o | o | 0 | 0\$ | \$229 | 0\$ | \$0 |
| Pole 10 | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 457.0 | ~ | 2,190 | 1,001 | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | 210.0 | ~ | 0 | 2,190 | 460 | 0 | 0\$ | \$62 | 0\$ | \$0 |

| | - (|
|----------|-----|
| 0) | - 1 |
| 0 | - 2 |
| × | . 1 |
| 2 | - |
| <u></u> | |
| O | |
| S | |
| | 1 |
| 0 | |
| _ | ï |
| <u> </u> | |
| | |
| 0 | |
| halos . | |
| 0 | |
| č | |
| | |
| > | |
| > | |
| 77 | |
| × | |
| ~ | ÷ |
| Ľ | |
| 10 | |
| 3 | |
| 21 | |
| 22 | |
| -11- | |
| \frown | |
| _ | |
| S | 1 |
| | |



| | | Maintenance | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | | O\$ | 0\$ | 0\$ | 0\$ |
|------------------|-----------|-------------|-------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------|
| INECTION | s | HVAC | 0\$ | \$0 | \$0 | \$0 | \$0 | \$0 | 0 \$ | | \$0 | 0 S | 0 Å | 0 |
| CON | Saving | Energy | \$229 | \$68 | 0\$ | \$68 | 0\$ | 0\$ | 0\$ | | O \$ | \$24 | \$56 | 0\$ |
| | | Rebates | 0\$ | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | O\$ | 0\$ | 0\$ | 0\$ |
| | | Ctrl Qty | 0 | 0 | o | o | o | o | o | | o | o | o | o |
| | | kWh | 0 | 410 | 300 | 410 | 300 | 192 | 192 | | 234 | 293 | 683 | 390 |
| | ion | Burn | 0 | 2,190 | 3,000 | 2,190 | 3,000 | 4,368 | 4,368 | | 3,900 | 3,900 | 3,900 | 3,900 |
| | ed Soluti | % Red. | 100 | 0 | 0 | o | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| | Propos | Qty | - | ~ | ~ | - | ~ | - | - | | с | с | 2 | 2 |
| | | Watts | O, | 187.0 | 100.0 | 187.0 | 100.0 | 44.0 | 44.0 | | 20.0 | 25.0 | 25.0 | 20.0 |
| | | Proposed | Remove | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | Do Nothing | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | Do Nothing | Do Nothing | Do Nothing | | Do Nothing | PHILLIPS- EVOKIT2X4-25W- 40K | PHILLIPS- EVOKIT2X4-25W- 40K | Do Nothing |
| | | kWh | 1,996 | 1,001 | 300 | 1,001 | 300 | 192 | 192 | | 234 | 503 | 1,174 | 390 |
| E | | Burn | 4,368 | 2,190 | 3,000 | 2,190 | 3,000 | 4,368 | 4,368 | | 3,900 | 3,900 | 3,900 | 3,900 |
| Option | isting | oty | - | - | . | . | - | . | ~ | | m | m | 7 | 2 |
| ture/Kit | Exi | Watts | 457.0 | 457.0 | 100.0 | 457.0 | 100.0 | 44.0 | 44.0 | | 20.0 | 43.0 | 43.0 | 20.0 |
| Elementary - Fix | | Existing | 1L 400W HPS MOG BASE HID [1x MAG]/ Pole Light Pole | 1L 400W HPS MOG BASE HID [1× MAG]/ Pole Light Pole | 1L 100W LED COB [1× LED DRIVER]/ Flood Yolk | 1L 400W HPS MOG BASE HID [1× MAG]/ Pole Light Pole | 1L 100W LED COB [1× LED DRIVER]/ Flood Yolk | 1L 44W LED COB [1× LED DRIVER]/ Flood Knuckle | 1L 44W LED COB [1× LED DRIVER]/ Flood Knuckle | nentary / Interior | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 2L 25W LF4 T8 [1× ELE T8 DIM NP]/ Lensed Troffer 2x4 Recessed | 2L 25W LF4 T8 [1× ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 1L 20W LED Array [1x LED DRIVER]/ canopy 10" x 10" Surface |
| Burnside | Area | Room | Pole 10 | Pole 11 | Pole 11 | Pole 12 | Pole 12 | FL 1 | FL 2 | Burnside Eler | Door 1 vestibule | Lobby | Lobby | Lobby |

Page 22 of 59

| Schools | 1/1/ O = 1/ |
|---------|-------------|
| Public | i L |
| Wing | |
| Red | Ē |
| #256 | |
| ISD | 6 |



| Burnside | Elementary - Fi | xture/Ki | t Optio | u | | | | | | | | | | | | |
|------------------------------------------|----------------------------------------------------------------------------------|----------|---------|-------|-------|-------------------------------------|-------|-------------|-----------|-------|-------|----------|---------|---------|--------|-------------|
| Area | | Exi | isting | | I | | | Propose | d Solutic | u | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty % | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | laintenance |
| obby | 2L 25W LF4 T8 [1x ELE T8 DIM NPJ/ Standard Strip 4' Surface | 43.0 | 17 | 3,900 | 2,851 | ULT-248-12W-40K- DE | 24.0 | 17 | o | 3,900 | 1,591 | 0 | Ş | \$145 | 0\$ | 0\$ |
| obby | 1L 20W LED COB [1x LED DRIVER]/ Recessed Can 6" Can Recessed | 20.0 | n | 3,900 | 234 | Do Nothing | 20.0 | n | 0 | 3,900 | 234 | 0 | © \$ | O \$ | 0\$ | 0\$ |
| Trophy Case | 2L 25W LF4 T8 [1x ELE T8 DIM NP]/ Standard Strip 4' Surface | 43.0 | 4 | 3,900 | 671 | ULT-248-12W-40K- DE | 24.0 | 4 | 0 | 3,900 | 374 | 0 | 0\$ | \$34 | 0\$ | 0\$ |
| Room 100 - Main Office | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Parabolic Troffer 2x4 Recessed | 67.0 | Q | 2,400 | 965 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | Q | 0 | 2,400 | 403 | 0 | 0\$ | \$64 | 0\$ | 0\$ |
| Room 100 - Main Office | 1L 20W LED Array [1x LED DRIVER/ Canopy 10" x 10" Surface | 20.0 | 7 | 2,400 | 96 | Do Nothing | 20.0 | 7 | 0 | 2,400 | 96 | 0 | 0\$ | O \$ | 0\$ | 0\$ |
| Room 101 - Principals Office | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Parabolic Troffer 2x4 Recessed | 67.0 | 4 | 2,400 | 643 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 4 | 0 | 2,400 | 269 | 0 | 0\$ | \$43 | \$0 | 0\$ |
| Room 102 - Health Services | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Parabolic Troffer 2x4 Recessed | 67.0 | ~ | 2,400 | 161 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | ~ | 0 | 2,400 | 67 | 0 | 0\$ | \$11 | 0\$ | 0\$ |
| Room 102 - Health Services | 2L 60W INCS-M A19 [0x NULL]/ Vanity Wall | 120.0 | 7 | 2,400 | 576 | GC-9W-A19-40K-2L | 18.0 | 2 | 0 | 2,400 | 86 | 0 | \$0 | \$56 | \$0 | \$0 |
| Room 102 - Health Services | 2L 13W CFS-M SPIRAL [0x NULL]/ Vanity wall | 26.0 | - | 2,400 | 62 | GC-9W-A19-40K-2L | 18.0 | | 0 | 2,400 | 43 | 0 | \$0 | \$2 | 0\$ | 0\$ |
| Room 102 - Health Services | 1L 40W LED Linear Board [1x LED DRIVER]/ Lensed Troffer 2x2 Recessed | 40.0 | ~ | 2,400 | 96 | Do Nothing | 40.0 | ~ | 0 | 2,400 | 96 | 0 | 0\$ | O \$ | 0\$ | 0\$ |
| Room 102A - nealth services office | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ | 67.0 | 7 | 2,400 | 322 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | N | 0 | 2,400 | 134 | 0 | 0\$ | \$21 | \$0 | 0\$ |

Page 23 of 59



| | • | | | | | | | | | | | | | | | |
|-----------------------------|-----------------------------------------------------------------------------|-------|-------------|-------|-------|-------------------------------------|-------|-------------|-----------|-------|-------|----------|---------|---------|------|-------------|
| Area | | Ű | kisting | | | | | Propose | d Solutio | u | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty % | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC | Maintenance |
| | Parabolic Troffer 2x4 Recessed | | | | | | | | | | | | | | | |
| Health Service Restroom | 2L 25W LF4 T8 s [1× ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | | 3,900 | 168 | LITHONIA-STL4- 27W-40K | 27.0 | | 0 | 3,900 | 105 | o | \$0 | \$7 | 0\$ | 0\$ |
| Room 103 | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Parabolic Troffer 2x4 Recessed | 67.0 | 4 | 2,400 | 643 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 4 | 0 | 2,400 | 269 | 0 | 80 | \$43 | 0\$ | 0\$ |
| Restroom 1 | 2L 25W LF4 T8 [1× ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | | 2,400 | 103 | LITHONIA-STL4- 27W-40K | 27.0 | | o | 2,400 | 65 | 0 | \$0 | \$ | 0\$ | 0\$ |
| Restroom 2 | 2L 25W LF4 T8 [1× ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | | 2,400 | 103 | LITHONIA-STL4- 27W-40K | 27.0 | | 0 | 2,400 | 65 | 0 | \$0 | \$4 | 0\$ | 0\$ |
| Room 104 - breakroom | 2L 25W LF4 T8 [1× ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 43.0 | 4 | 3,900 | 671 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 4 | 0 | 3,900 | 437 | 0 | 0 S | \$27 | 0\$ | 0 \$ |
| Room 104 - breakroom | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" × 10" Surface | 20.0 | ງນ | 3,900 | 1,170 | Do Nothing | 20.0 | 15 | 0 | 3,900 | 1,170 | 0 | 0 | 0\$ | 0\$ | 0\$ |
| Room 104A - copy room | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Parabolic Troffer 2x4 Recessed | 67.0 | Ø | 2,400 | 1,447 | PHILIPS-EVOKIT2x4- 19W-40K-HE | 19.0 | Ø | 0 | 2,400 | 410 | 0 | 80 | \$110 | 0\$ | 0\$ |
| Room 104B - Server Room | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 2 | 250 | 34 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | N | 0 | 250 | 14 | 0 | 0 S | \$ | 0\$ | 0\$ |
| Room 105 - Wellness Roon | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Parabolic Troffer 2x4 Recessed | 67.0 | 4 | 2,160 | 579 | ESI-F-24LX-38W- RGBW-MC | 38.0 | 4 | 30 | 1,512 | 230 | - | 80 | \$40 | 0\$ | 0\$ |
| Door 22 vestibule | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | ~ | 3,600 | 72 | Do Nothing | 20.0 | ~ | 0 | 3,600 | 72 | 0 | 0\$ | 0\$ | \$0 | 0\$ |

| | - |
|-------|---------|
| S | 0 |
| 00 | 21/11 |
| Sch | |
| ublic | 1 L |
| ٩ | 1 |
| Wing | |
| Red | ī |
| #256 | - loloo |
| ISD | 6 |



| Burnside | Elementary - Fi | ixture/Ki | it Optio | Ц | | | | | | | | | | | | |
|-----------------------------------|--------------------------------------------------------------------------|-----------|----------|-------|-------|---------------------------------------|-------|---------|-----------|-------|-------|----------|---------|-------------------|---------|-------------|
| Area | | ŵ | kisting | | | | | Propose | d Solutic | n | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty , | 6 Red. | Burn | кWh | Ctrl Qty | Rebates | Energy | HVAC | Maintenance |
| A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 43.0 | 35 | 3,600 | 5,418 | PHILLIPS- EVOKIT2X4-25W- 40K | 25.0 | 35 | o | 3,600 | 3,150 | o | 0\$ | \$260 | 0 \$ | 0\$ |
| A Wing Hallway B | 2L 7W CFN SGL TUBE 2PIN N-I [1× MAG ES]/ Decorative 9" Wall | 14.0 | 4 | 3,600 | 202 | Do Nothing | 14.0 | 4 | 0 | 3,600 | 202 | 0 | 0\$ | 0\$ | 0\$ | \$0 |
| A Wing Hallway B | 2L 25W LF4 T8 [1× ELE T8 IS NP]/ Standard Strip 4" Surface | 43.0 | б | 3,600 | 464 | ULT-248-12W-40K- DE | 24.0 | n | 0 | 3,600 | 259 | 0 | 80 | \$24 | 0\$ | 0\$ |
| A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | б | 3,600 | 464 | ULT-248-12W-40K- DE | 24.0 | с | 0 | 3,600 | 259 | 0 | 0\$ | \$24 | 0\$ | 0\$ |
| A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | Q | 3,600 | 929 | ULT-248-12W-40K- DE | 24.0 | Q | 0 | 3,600 | 518 | o | 0\$ | \$47 | \$0 | \$ |
| Room 106 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | Ν | 2,400 | 302 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | Ν | 0 | 2,400 | 134 | o | 0\$ | 8 0 | \$0 | 0\$ |
| Room 107 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | o | 0\$ | \$116 | 0 | 0\$ |
| Room 108 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | Ν | 1,800 | 227 | ULT-348-12W-40K- DE | 36.0 | Ν | 0 | 1,800 | 130 | o | 0 \$ | 8 1 | 0\$ | 8 |
| Room 109 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 2 | 1,800 | 227 | ULT-348-12W-40K- DE | 36.0 | р | 0 | 1,800 | 130 | o | 0 S | 8 1 | 0\$ | 8 |
| Room 110 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0\$ | \$116 | 0 | \$0 |

Page 25 of 59

| Schools | 11/11 |
|---------|-------|
| Public | 1111 |
| Wing | |
| Red | Ē |
| #256 | - 1-1 |
| ISD | 6 |



| Burnside | e Elementary - F | ixture/K | it Optic | u | | | | | | | | | | CONNEC | NOIL | |
|-------------------------|--------------------------------------------------------------------------|----------|----------|-------|-------|---------------------------------------|----------|--------|------------|-------|-----|----------|-----------------|-------------------|--------|------------|
| Area | | Û | kisting | | | | a | ropose | ed Solutio | u | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | кWh | Proposed | Watts | Qty % | % Red. | Burn | kWh | Ctrl Qty | Rebates | Energy H | VAC Ma | aintenance |
| Room 111 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0\$ | \$116 | 0\$ | 0\$ |
| Room 111 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | с | 2,160 | 434 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | e | 0 | 2,160 | 181 | o | 0 \$ | \$29 | 0\$ | 0\$ |
| Room 111 - classroom | 1L 150W INCS- M PAR38 [0x NULL]/ Track 6" Can Surface | 150.0 | Q | 2,160 | 1,944 | GC-17W-PAR38-40K- 1L-277V | 17.0 | 9 | 0 | 2,160 | 220 | o | \$0 | \$198 | 0\$ | \$0 |
| Room 111A | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 7 | 1,800 | 241 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 2 | 0 | 1,800 | 101 | o | 0\$ | 8 0 | \$0 | 0\$ |
| Room 112 - dassroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | o | 0\$ | \$116 | \$0 | 0\$ |
| Room 113 - dassroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | o | 2,160 | 726 | o | 0\$ | \$116 | \$0 | 0\$ |
| Room 114 - Supplies | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | n | 2,160 | 434 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | m | 0 | 2,160 | 181 | o | 0\$ | \$30 | \$0 | \$0 |
| Room 115 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | o | 0\$ | \$116 | \$0 | 0\$ |
| Door 21 vestibule | 1L 20W LED Array [1× LED DRIVER]/ Canopy 10" × 10" Surface | 20.0 | Ν | 3,900 | 156 | Do Nothing | 20.0 | N | 0 | 3,900 | 156 | o | 0\$ | © \$ | \$0 | 0\$ |
| Room 116 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | o | 0\$ | \$116 | \$0 | \$0 |

Page 26 of 59

| | 1 |
|----------|-----|
| 10 | - (|
| 07 | |
| _ | |
| 0 | |
| <u> </u> | - 6 |
| 0 | - 6 |
| <u> </u> | |
| _ | |
| 4.5 | |
| 0 | |
| 10 | |
| 0, | |
| | |
| (3) | |
| <u> </u> | |
| | - 2 |
| _ | - 1 |
| 0 | |
| _ | |
| | |
| - | |
| | |
| _ | |
| - | |
| 0, | |
| <u> </u> | |
| | |
| | |
| - | |
| ~ | |
| - | |
| _ | |
| | |
| <u> </u> | |
| 0 | |
| 01 | |
| LL. | |
| | |
| 10 | |
| <u> </u> | |
| LO | |
| | |
| 2 | |
| - Add | |
| 146 | |
| | |
| \frown | |
| _ | |
| 10 | |
| 0. | |
| _ | - 6 |
| | |



| Burnside | Elementary - Fi | ixture/Ki | t Optio | | | | | | | | | | | | | |
|-------------------------|--------------------------------------------------------------------------|-----------|---------|-------|-------|---------------------------------------|-------|--------------|------------|-------|-----|----------|---------|--------------|------|-------------|
| Area | | ĒX | tisting | | I | | | Propose | ed Solutio | on | l | l | l | Savings | l | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty , | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC | Maintenance |
| Room 117 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | o | 0\$ | \$116 | 0\$ | 0\$ |
| Room 118 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0\$ | \$116 | 0\$ | O\$ |
| Door 20 vestibule | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | ~ | 3,900 | 78 | Do Nothing | 20.0 | . | 0 | 3,900 | 78 | 0 | 0 S | 0 \$ | 0 | 0\$ |
| Room 119 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0 | \$116 | 0\$ | 0\$ |
| Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | 4 | 1,800 | 310 | ULT-248-12W-40K- DE | 24.0 | 4 | 0 | 1,800 | 173 | 0 | 0 | \$ 16 | 0\$ | 0\$ |
| Boys Restroom | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | 4 | 1,800 | 144 | Do Nothing | 20.0 | 4 | 0 | 1,800 | 144 | 0 | 0\$ | 0 \$ | 0\$ | 0\$ |
| Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | 4 | 1,800 | 310 | ULT-248-12W-40K- DE | 24.0 | 4 | 0 | 1,800 | 173 | 0 | 0 | \$16 | 0\$ | 0\$ |
| Girls Restroom | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | 4 | 1,800 | 144 | Do Nothing | 20.0 | 4 | 0 | 1,800 | 144 | 0 | 0 | 0 \$ | 0\$ | 0\$ |
| Room 120 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0\$ | \$116 | 0\$ | 0\$ |
| Room 124 | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | ~ | 250 | 5 | ULT-248-12W-40K- DE | 24.0 | ~ | 0 | 250 | Q | 0 | 0\$ | 6 | 0\$ | 0\$ |

Page 27 of 59

| | 1 |
|-----------|-----|
| ŝ | |
| | |
| 0 | |
| ×. | . 1 |
| 0 | |
| _ | |
| 7 | |
| | |
| S | |
| | |
| 0 | |
| | - |
| _ | 1 |
| <u> </u> | |
| | |
| 5 | |
| the state | |
| _ | |
| 0) | |
| | |
| | |
| > | |
| > | |
| - | |
| | |
| ă. | |
| ~ | ï |
| CC . | |
| | |
| S | |
| IO. | |
| 21 | |
| 5.9 | |
| 71: | |
| _ | |
| | |
| 10 | |
| U) | 1 |
| _ | - 1 |



| Burnsid | e Elementary - Fi | ixture/Ki | it Optio | ц | | | | | | | | | | CONNE | CITUN | |
|-----------------------------------|--------------------------------------------------------------------------------------------|-----------|------------------|-------|-------|---------------------------------------|-------|--------------|------------|-------|-----|----------|--------------|-------------------|---------|-------------|
| Area | | ú | kisting | | | | | Propose | ed Solutio | uo | | | | Savings | | |
| Room | Existing | Watts | Q _t y | Burn | kWh | Proposed | Watts | Qty . | % Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | laintenance |
| Room 121 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 5 | 0 | 2,160 | 726 | o | S | \$116 | 0 \$ | Ş |
| Room 122 - Student Services | 3L 25W LF4 T8 [1×ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | Ν | 1,800 | 227 | ESI-F-24LX-38W- RGBW-MC | 38.0 | Ν | 30 | 1,260 | 96 | - | O S | ୫ 1 ଅ | \$0 | \$ |
| Room 123 - student services | 3L 25W LF4 T8 [1× ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 1,800 | 227 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 1,800 | 101 | 0 | 0 S | \$12 | 0 \$ | \$ |
| Room 124 | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Square 137x13x Recessed | 52.0 | ~ | 250 | 5 | GC-9W-PLO 40K-2L | 18.0 | ~ | 0 | 250 | IJ | o | O S | 6 | 0\$ | Ş |
| Room 125 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | o | S S | \$116 | 0 | \$0 |
| Room 126 - Conference Room | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 2 | 2,160 | 289 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | 0 | 0 & | \$ 1 0 | 0\$ | \$ |
| Room 127 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 4 | 2,160 | 2,026 | ESI-F-24LX-38W- RGBW-MC | 38.0 | 4 | 30 | 1,512 | 804 | ~ | 0 X | \$140 | 0 | \$ |
| Room 127A | 3L 25W LF4 T8 [1× ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 2 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | 0 S | \$17 | \$0 | 0 \$ |
| Room 128 | 3L 25W LF4 T8 [1×ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 2 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | S S | \$17 | 0 | \$0 |
| Room 129 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 4 | 2,160 | 2,026 | ESI-F-24LX-38W- RGBW-MC | 38.0 | 4 | 30 | 1,512 | 804 | ۴ | 0\$ | \$140 | 0\$ | 0\$ |

Page 28 of 59

| chools | 11/10/11/11 |
|----------|-------------|
| Public S | |
| Red Wing | |
| #256 | |
| ISD | |



| Burnside | Elementary - Fi | ixture/Ki | it Optio | u | | | | | | | | | | CUMNE | CITON | |
|-------------------------|--------------------------------------------------------------------------|-----------|----------|-------|-------|--------------------------------------------|-------|--------------|------------|-------|-----|----------|---------|---------|--------|--------------|
| Area | | Ě | tisting | | | | | Propose | ed Solutic | u | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty . | % Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | laintenance |
| Women?s Restroom | 2L 25W LF4 T8 [1× ELE T8 IS NPJ/ Standard Strip 4' Surface | 43.0 | N | 1,800 | 155 | ULT-248-12W-40K- DE | 24.0 | N | 0 | 1,800 | 8 | 0 | O\$ | 88 | 0\$ | 80 |
| Women?s Restroom | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | n | 1,800 | 108 | Do Nothing | 20.0 | n | 0 | 1,800 | 108 | 0 | 0\$ | 0 | \$0 | 0\$ |
| Women?s Restroom | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | ~ | 1,800 | 36 | Do Nothing | 20.0 | ~ | 0 | 1,800 | 36 | 0 | 0 \$ | © \$ | 0\$ | Ş |
| Supply Room | 1L 30W LED Linear Board [1x LED DRIVER]/ Standard Strip 4' Wall | 30.0 | - | 250 | ω | Do Nothing | 30.0 | - | 0 | 250 | ω | 0 | 0\$ | 0\$ | \$0 | 0\$ |
| Mens Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | 2 | 1,800 | 155 | ULT-248-12W-40K- DE | 24.0 | Ν | 0 | 1,800 | 86 | 0 | 0 \$ | ŝ | 0\$ | Ş |
| Mens Restroom | 1L 20W LED Array [1x LED DRIVER/ Canopy 10" x 10" Surface | 20.0 | 4 | 1,800 | 144 | Do Nothing | 20.0 | 4 | 0 | 1,800 | 144 | 0 | 0\$ | 0 | \$0 | Q \$ |
| Room 130 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 9 | 2,160 | 2,316 | ESI-F-24LX-38W- RGBW-MC | 38.0 | 16 | 30 | 1,512 | 919 | ~ | 0 \$ | \$160 | 0\$ | Ş |
| Room 130 - classroom | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Can 8" | 52.0 | ~ | 1,800 | 99 | LITHONIA-LBR8-9W- 40K-MWD-MVOLT- UGZ | 0.0 | ~ | 0 | 1,800 | 9 | 0 | 0 \$ | о, Ю | 0\$ | Q |
| A Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 43.0 | ~ | 3,900 | 1,174 | PHILLIPS- EVOKIT2X4-25W- 40K | 25.0 | 7 | 0 | 3,900 | 683 | 0 | 0\$ | \$56 | \$0 | Ş |
| A Wing Hallway A | 1L 20W LED Array [1×LED DRIVER] Canopy 10"×10" Surface | 20.0 | Ν | 3,900 | 156 | Do Nothing | 20.0 | Ν | 0 | 3,900 | 156 | 0 | 0\$ | 0\$ | \$0 | \$0 |

| Public Schools | |
|----------------|---|
| Wing | |
| Red | ī |
| #256 | |
| ISD | 6 |



1

| Burnside |) Elementary - F | ixture/Ki | it Optio | u | | | | | | | | | | | | |
|---------------------------------------|--------------------------------------------------------------------------|-----------|----------|-------|-------|-------------------------------------|-------|---------|-----------|-------|-------|----------|---------|--------------|---------|-------------|
| Area | | ũ | kisting | | | | | Propose | d Solutic | n | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | кWh | Proposed | Watts | Qty % | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | laintenance |
| A Wing Hallwa) A | 2L 25W LF4 T8 [1x ELE T8 IS NPJ/ Standard Strip 4" Surface | 43.0 | 4 | 3,900 | 2,348 | ULT-248-12W-40K- DE | 24.0 | 4 | o | 3,900 | 1,310 | o | O\$ | \$ 119 | O \$ | 0\$ |
| A Wing Hallwa) A | 2L 25W LF3 T8 [1x ELE T8 IS NP]/ standard Strip 3' Surface | 43.0 | 2 | 3,900 | 335 | ULT-236-12W-40-DE | 24.0 | N | 0 | 3,900 | 187 | o | 0\$ | \$17 | 0\$ | 0\$ |
| Media Center | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 43.0 | 31 | 2,160 | 2,879 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 31 | 0 | 2,160 | 1,875 | o | 0\$ | \$115 | 0 | 0\$ |
| Media Center | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | 27 | 2,160 | 1,166 | Do Nothing | 20.0 | 27 | 0 | 2,160 | 1,166 | o | 0\$ | O \$ | 0\$ | 0\$ |
| Media Center | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | 4 | 2,160 | 372 | ULT-248-12W-40K- DE | 24.0 | 4 | o | 2,160 | 207 | o | 0\$ | \$10 | 0 | 0\$ |
| Media Center | 2L 25W LF3 T8 [1x ELE T8 IS NP]/ Standard Strip 3' Surface | 43.0 | 7 | 2,160 | 186 | ULT-236-12W-40-DE | 24.0 | 7 | 0 | 2,160 | 104 | o | 0\$ | 0 9 | 0\$ | 0\$ |
| Media Center | 2L 17W LF2 T8 [1x ELE T8 IS NP]/ Standard Strip 2' Surface | 31.0 | - | 2,160 | 67 | ULT-224-9W-40K-DE | 18.0 | - | o | 2,160 | 30 | o | 0\$ | 8 | 0\$ | 80 |
| Room 131A - Media Center Office | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | 0\$ | \$17 | 0\$ | 0\$ |
| Room 131B - Copy Room | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 5 | 0 | 2,160 | 121 | 0 | 0\$ | \$17 | 0\$ | 0\$ |
| Room 132 | 3L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 63.0 | Q | 2,160 | 816 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | Q | 0 | 2,160 | 363 | 0 | 0\$ | \$52 | 0\$ | 0\$ |

Page 30 of 59

| | 1 |
|-----------|-----|
| ŝ | |
| | |
| 0 | |
| ×. | . 1 |
| 0 | |
| _ | |
| 7 | |
| | |
| S | |
| | |
| 0 | |
| | - |
| _ | 1 |
| <u> </u> | |
| - | |
| 5 | |
| the state | |
| _ | |
| 0) | |
| | |
| | |
| > | |
| > | |
| - | |
| | |
| ă. | |
| ~ | ï |
| CC . | |
| | |
| S | |
| IO. | |
| 21 | |
| 5.9 | |
| 71: | |
| _ | |
| | |
| 10 | |
| U) | 1 |
| _ | - 1 |



| CONNECTION | vings | HVAC Mainten | 09 OS | 09 SO | OS S | 09 09 | 09 09 | OS OS | 09 09 | 09 09 | O\$ O\$ | O\$ O\$ | |
|----------------------------|---------------|--------------|--------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------|
| / | Sar | Energy | ດ ບ | \$0 | \$30 | \$12 | \$37 | \$30 | \$87 | \$37 | \$ \$ 343 | \$2Q | |
| | | / Rebates | 0\$ | 0\$ | 0\$ | \$0 | \$0 | 80 | \$0 | \$0 | 0\$ | 0\$ | |
| | | /h Ctrl Qt | 0 | 0 | 0 | 0 | Q | 0 | 0 | Q | 0 | 0 | |
| | Ę | Burn kM | 2,160 24 | 2,160 13 | 2,160 21 | 2,160 8⁄ | 2,160 14 | 2,160 21 | 2,160 63 | 2,160 14 | 2,160 30 | 3,900 68 | |
| | posed Solutio | y % Red. | o | o | o | o | o | o | 0 | o | o | o | |
| | Pro | Watts Qt | 28.0 | 20.0 | 97.5 | 19.5 2 | 13.5 5 | 97.5 | 19.5 15 | 13.5 5 | 28.0 | 25.0 7 | |
| | | Proposed | PHILIPS- EVOKIT2X4-28W- 40K-D | Do Nothing | Lithonia-LBK 4FT 1 3000 40K (5) | Lithonia-LBK 4FT 1 3000 40K | Lithonia-LBK 3FT 1 2000 40K | Lithonia-LBK 4FT 1 3000 40K (5) | Lithonia-LBK 4FT 1 3000 40K | Lithonia-LBK 3FT 1 2000 40K | PHILIPS- EVOKIT2X4-28W- 40K-D | PHILLIPS- EVOKIT2X4-25W- 40K | |
| | | kWh | 372 | 130 | 460 | 186 | 464 | 460 | 1,393 | 464 | 680 | 1,174 | |
| ption | бu | ty Burn | 2,160 | 3 2,160 | 2,160 | 2,160 | 2,160 | 2,160 | 5 2,160 | 5 2,160 | 2,160 | 3,900 | |
| ic scnools ixture/Kit O | Existi | Watts Q | 43.0 | 20.0 | 213.0 | 43.0 | 43.0 | 213.0 | 43.0 1 | 43.0 | 63.0 | 43.0 | |
| Elementary - Fi | | Existing | 2L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 1L 20W LED Array [1× LED DRIVER]/ Canopy 10" × 10" Surface | 10L 25W LF4 T8 [3x ELE T8 IS NP]/ Indirect 20? Suspended | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Indirect 4' Wall | 2L 25W LF3 T8 [1x ELE T8 IS NP]/ Indirect 3' Wall | 10L 25W LF4 T8 [3x ELE T8 IS NP]/ Indirect 20? Suspended | 2L 25W LF4 T8 [1× ELE T8 IS NP]/ Indirect 4 Wall | 2L 25W LF3 T8 [1× ELE T8 IS NPJ/ Indirect 3' Wall | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 2L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 01 17M 1C2 T0 |
| Burnside | Area | Room | Room 132A | 300m 132A | Room 133 | Room 133 | Room 133 | 200m 136 | 300m 136 | Room 136 | 200m 135 | 3 Wing Hallway | |

| ublic Schools | Physical New Octable |
|---------------|----------------------|
| Wing P | |
| Red | Ē |
| #256 | opion |
| ISD | 2 |



| Area | : | EX | cisting. | (| | - | | ^o ropose | d Solutio | E C | | ā | - | Savings | | |
|---------------------------------------|-------------------------------------------------------------------------------|-------|----------|-------|-------|---------------------------------------|-------|---------------------|-----------|-------|-------|----------|---------|---------|------|-------------|
| Room | Existing Standard Strin 2 | Watts | offy | Burn | кwh | Proposed | Watts | aty | . Red. | Burn | КWh | ctrl aty | Rebates | Energy | HVAC | laintenance |
| | Surface | | | | | | | | | | | | | | | |
| B Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | 16 | 3,900 | 2,683 | ULT-248-12W-40K- DE | 24.0 | 16 | 0 | 3,900 | 1,498 | 0 | 0\$ | \$136 | 0\$ | \$0 |
| B Wing Hallway A | 2L 25/V LF3 T8 [1× ELE T8 IS NP]/ Standard Strip 3' Surface | 43.0 | ~ | 3,900 | 168 | ULT-236-12W-40-DE | 24.0 | ~ | 0 | 3,900 | 94 | o | 0\$ | o Ø | 0 | 80 |
| Room 134 - Classroom | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | Q | 2,160 | 816 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | Q | 0 | 2,160 | 363 | 0 | 0\$ | \$52 | 0\$ | 80 |
| Room 137 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 15 | 2,160 | 2,171 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 15 | 0 | 2,160 | 206 | o | 0\$ | \$145 | 0 | 80 |
| Room 137A | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | 0 | 0\$ | \$17 | 0\$ | 80 |
| Room 137B | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | 0\$ | \$17 | 0 | 80 |
| Room 137C | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | 0\$ | \$17 | 0 | 80 |
| Room 138/139 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | ى ا | 1,800 | 567 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | £ | 0 | 1,800 | 252 | 0 | 0\$ | \$36 | 0\$ | 80 |
| Door 17 vestibule | 1L 20W LED Array [1x LED DRIVER <i>]</i> Canopy 10" x 10" Surface | 20.0 | ~ | 3,900 | 78 | Do Nothing | 20.0 | ~ | 0 | 3,900 | 78 | 0 | 0\$ | 0 | 0 | 80 |
| B Wing Hallway B | 2L 25W LF4 T8 [1× ELE T8 IS NPJ/ | 43.0 | 26 | 3,600 | 4,025 | PHILLIPS- EVOKIT2X4-25W- 40K | 25.0 | 26 | 0 | 3,600 | 2,340 | 0 | \$0 | \$193 | \$0 | \$0 |

| | - 1 |
|-----------------------|-----|
| () | |
| | |
| _ | |
| 0 | |
| ō | |
| <u> </u> | - 5 |
| | |
| and the second second | |
| 0 | |
| 10 | |
| 0.0 | |
| | |
| () | |
| <u> </u> | |
| | - 2 |
| - | - 1 |
| <u> </u> | |
| _ | |
| _ | |
| n | |
| lades. | |
| _ | |
| 0 | |
| <u> </u> | |
| | |
| | |
| > | |
| | |
| - | |
| - | |
| 0 | |
| - | |
| ~ | - 2 |
| \sim | - 1 |
| index. | |
| | |
| G | |
| iñ | |
| 147 | |
| 2 | |
| 44 | |
| -144 | |
| | |
| 0 | |
| | |
| 10 | |
| v) | - 1 |
| _ | |



| CONNECTION | Savings | Qty Rebates Energy HVAC Mainter | | \$0 \$2 \$0 | \$0 \$39 \$0 | \$0 \$16 \$0 \$0 | \$0 \$22 \$0 \$6 | \$0 \$67 \$0 \$C | \$0 \$24 \$0 \$C | \$0 \$17 \$0 \$C | \$0 \$116 \$0 | \$0 \$1 \$0 \$C | |
|----------------|-----------|---------------------------------|--------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------|--|
| | | kWh Ctrl | | 0 | 432 0 | 0 821 | 151 0 | 383 | 151 0 | 121 0 | 726 0 | 12 0 | |
| | ution | Burn | | 3,600 | 3,600 | 3,600 | 1,800 | 1,260 | 1,800 | 2,160 | 2,160 | 250 | |
| | osed Soli | % Red. | | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | |
| | Prop | aty | | 7 | Ŋ | N | б | ω | б | 7 | 12 | - | |
| | | Watts | | 11.0 | 24.0 | JE 24.0 | 28.0 | 38.0 | 28.0 | 28.0 | 28.0 | . 48.0 | |
| | | Proposed | | GC-5.5W-PLS-40k 2L | ULT-248-12W-40K DE | ULT-236-12W-40-E | PHILIPS- EVOKIT2X4-28W- 40K-D | ESI-F-24LX-38W- RGBW-MC | PHILIPS- EVOKIT2X4-28W- 40K-D | PHILIPS- EVOKIT2X4-28W- 40K-D | PHILLIPS- EVOKIT2X4-28W- 40K-SD | ULT-448-12W-40K DE | |
| | | kWh | | 101 | 774 | 310 | 340 | 965 | 362 | 272 | 1,737 | 5 | |
| uc | | Burn | | 3,600 | 3,600 | 3,600 | 1,800 | 1,800 | 1,800 | 2,160 | 2,160 | 250 | |
| it Opti | xisting | Qty | | Ν | Ŋ | N | б | ω | б | 2 | 5 | - | |
| ixture/K | Û | Watts | | 14.0 | 43.0 | 43.0 | 63.0 | 67.0 | 67.0 | 63.0 | 67.0 | 85.0 | |
| Elementary - F | | Existing | Lensed Troffer 2x4 Recessed | 2L 7W CFN SGL TUBE 2PIN N-I [1X MAG ES]/ Decorative 9" Wall | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4" Surface | 2L 25W LF3 T8 [1x ELE T8 IS NP]/ Standard Srip 3' Surface | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 4L 25W LF4 T8 [1x ELE T8 IS NPJ/ Standard Strip 8' Surface | |
| Burnside | Area | Room | | B Wing Hallway B | B Wing Hallway B | B Wing Hallway B | Room 140 | Room 141 - classroom | Room 141 - classroom | Room 141A | Room 142 - classroom | Server Room | |

| nools | 11/10 11/11 |
|--------|-------------|
| Scl | |
| Jublic | i |
| Wing F | |
| Red | Ē |
| #256 | |
| SD | |



| Burnside | Elementary - F. | ixture/Ki | it Optio | u | | | | | | | | | | NNDO | NOTOT | |
|-------------------------|--------------------------------------------------------------------------|-----------|----------|-------|-------|---------------------------------------|-------|---------|-----------|-------|-----|----------|---------|---------|--------|-------------|
| Area | | Ű | kisting | | | | | Propose | d Solutio | uo | | | | Savings | | |
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty % | 6 Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC N | Maintenance |
| | Lensed Troffer 2x4 Recessed | | | | | | | | | | | | | | | |
| Room 144 | 3L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 63.0 | Ν | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | Ν | 0 | 2,160 | 121 | 0 | O\$ | \$17 | 0\$ | \$0 |
| Room 145 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0 \$ | \$ 116 | 0 | \$ |
| Door 15 vestibule | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | 7 | 3,900 | 156 | Do Nothing | 20.0 | 7 | 0 | 3,900 | 156 | 0 | 0\$ | 0\$ | 0\$ | \$ |
| Room 146 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0 \$ | \$ 116 | 0\$ | \$ |
| Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | ო | 1,800 | 232 | ULT-248-12W-40K- DE | 24.0 | n | 0 | 1,800 | 130 | 0 | 0\$ | \$12 | 0\$ | \$ |
| Boys Restroom | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | б | 1,800 | 108 | Do Nothing | 20.0 | n | 0 | 1,800 | 108 | 0 | 0 \$ | 0 \$ | 0 | \$ |
| Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | б | 1,800 | 232 | ULT-248-12W-40K- DE | 24.0 | с | 0 | 1,800 | 130 | 0 | 0\$ | \$12 | 0\$ | 0\$ |
| Girls Restroom | 1L 20W LED Array [1x LED DRIVER]/ Canopy 10" x 10" Surface | 20.0 | ო | 1,800 | 108 | Do Nothing | 20.0 | n | 0 | 1,800 | 108 | 0 | 0\$ | 0\$ | 0 | \$ |
| Room 147 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0\$ | \$116 | 0\$ | 0\$ |
| Room 148 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ | 67.0 | 5 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 | 2,160 | 726 | 0 | 0\$ | \$116 | 0\$ | \$0 |
| | | | | | | | | | | | | | | | | |

| | 1 |
|--------|-------|
| S | Ċ |
| Ιοοι | 11/11 |
| Sch | |
| ublic | i. |
| Wing F | |
| Red | ī |
| #256 | |
| ISD | 2 |



| Area Existing Room Existing Room Evisting Door 14 Lensed Troffer 2x4 Recessed 1L 20W LED Door 14 Drav [Tx ED Vestibule Surface Surface 3L 25W LF4 T8 Room 149 Canopy 10° x 10° Canopy 10° x 10° Surface Surface 3L 25W LF4 T8 Room 150 Canopy 10° x 10° Cassroom Surface Surface 3L 25W LF4 T8 Room 150 NPJ/ Recessed CWing Hallway I's ELE T8 IS CWing Hallway Chier 244 Recessed Torres CWing Hallway Chier 244 Recessed Confer 244 Recessed <th></th> | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|-------|-------|---------------------------------------|-------|---------|----------|-----|-------|--------|----------|---------|---------|------------|
| RoomExistingBoor 14Lensed Troffer 2x4Boor 14Lensed Troffer 2x4Recessed1L 20W LEDVestibule1L 20W LEDNaray (1x LEDArray (1x LEDRecomption28 LELE T8 ISRecomption28 LELE T8 ISRecomption28 LELE T8 ISCanopy 10° x 10°28 LELE T8 ISRecomption28 LELE T8 ISCanopy 10° x 10°28 LELE T8 ISRecomption28 LEW LET T8 ISCassroom13 L 25W LF4 T8Recessed13 L 25W LF4 T8RecessedNPJCassroomLensed Troffer 2x4RecessedNPJCassroom21 L 25W LF4 T8C Wing Hallway17 KELE T8 ISArray (11 KELE T8 ISC Wing Hallway21 Z 25W LF4 T8C Wing Hallway21 Z 25W LF4 T8C Wing Hallway10° Lensed Troffer 2x4Recessed21 Z 25W LF4 T8C Wing Hallway10° KENArray (11 KELE T8 IS21 Z 25W LF4 T8C Wing HallwayNP7C Wing Hallway21 Z 25W LF4 T8C Wing HallwayNP7C Wing Hallway21 Z 25W LF4 T8Array (11 KELE T8 IS21 Z 25W LEDC Wing HallwayNP7Array (11 KELE21 Array (11 KELEC MORT13Array (11 KELEC MORT13Array (11 KELEC M C CFN21 Array (11 KELEC | Exist | ting | | | | Ľ | roposed | Solution | | | | | Savings | | |
| Lensed Torfier 2x4 Recessed Door 14 Door 14 Vestibule Pray [1x LED Array [1x LED Array [1x LED Dray [1x LED Convey 10* x 10* Surface Surface Bassroom 14 25W LF4 T8 Surface Broom 149 21 25W LF4 T8 22 25W LF4 T8 22 25W LF4 T8 Recessed 21 25W LF4 T8 Cwing Hallway NPJ Lensed Torfier 2x4 Recessed Cwing Hallway NPJ | Watts (| Qty | Burn | kWh | Proposed | Watts | Qty % | Red. Bur | n k | Wh Ct | ri Qty | Rebates | Energy | HVAC Mi | aintenance |
| Door 14 1L 20W LED bror 14 Array [1x LED vestibule Surface 10* 10* 10* vestibule Surface 10* 10* Room 149 Surface 10* 10* dassroom 12.5W LF4 T8 Room 150 NPJ/ Lensed Toffer 244 Researd 12.5W LF4 T8 Room 150 22.5W LF4 T8 CWing Hallway 12.5W LF4 T8 NPJ/ Lensed Toffer 244 Recessed Recessed CWing Hallway NPJ/ NPJ/ Lensed Troffer 244 Recessed Recessed CWing Hallway NPJ/ NPJ/ Lensed Troffer 244 Recessed Recessed CWing Hallway NPJ/ NPJ/ Lensed Troffer 244 Recessed Recessed A UTT 20W LED A T1 20W LED A NPJ/ Door 13 NPJ/ Door 13 Door 13 Door 13 Door 13 | | | | | | | | | | | | | | | |
| Broom 149 - Insert Carle T 8 IS Classroom IzselLe T 8 IS classroom NPJ/ Recessed 225W LF4 T 8 Recessed 3L 25W LF4 T 8 Cassroom 12 25W LF4 T 8 Recessed 12 25W LF4 T 8 Cassroom 12 25W LF4 T 8 Color 150 - Lensed Troffer 2x4 Recessed C Wing Hallway 12 25W LF4 T 8 C Wing Hallway 17 8 LE T 8 IS C Wing Hallway 17 8 LE T 8 IS C Wing Hallway 17 8 LE T 8 IS C Wing Hallway 17 8 LE T 8 IS A Wing Hallway 17 8 LE T 8 IS A State T 10 8 C 12 17 8 LE T 8 IS A State T 10 8 C 12 11 200 LED A Maray I 14 LED 11 200 LED Door 13 11 200 LED Meastibule 11 200 LED Meastibule 11 200 LED | 20.0 | N | 3,900 | 156 | Do Nothing | 20.0 | 2 | 3,90 | 0 | 56 | o | Q \$ | 0 \$ | 0 \$ | 0\$ |
| Broom 150- dassroom 3L 25W LF4 T8 [2x ELE T8 IS here] dassroom Izselle T8 IS here] dassroom NPJ/ Lensed Toffer 244 Recessed C Wing Hallway 11 x ELE T8 IS I 1 x ELE T8 IS Lense Toffer 244 Recessed C Wing Hallway 11 x ELE T8 IS I 1 x ELE T8 IS Lense Toffer 244 Recessed C Wing Hallway 2L 25W LF4 T8 I 1 x MAG ESI I 1 x MAG ESI I 1 x MAG ESI Pecorative 9' wall A 2L 25W LF4 T8 I 1 x ELE T8 IS Recorative 9' wall A 2L 25W LF4 T8 I 1 x ELE T8 IS Recorative 9' wall A 11 20W LED Straded Stript Door 13 Array (1 x LED Door 13 Door 13 DRIVERIJ | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 2,16 | 2 | 56 | o | 0 \$ | \$116 | 0 \$ | 0\$ |
| C Wing Hallway VNP/ A C Wing Hallway VNP/ Lensed Troffer 2x4 Lensested C Wing Hallway TUBE 2PIN N-I (1 X MAG ES)/ Decorative 9' Wall (1 X MAG ES)/ Decorative 9' Wall C Wing Hallway VDP/ A NP/ NP/ NP/ NP/ NP/ NP/ NP/ NP/ NP/ NP/ | 67.0 | 12 | 2,160 | 1,737 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 12 | 0 2,16 | 0 | 56 | o | O | \$116 | 0 \$ | 0\$ |
| C Wing Hallway TUBE 2PIN N-I A TUBE 2PIN N-I (1x MAG ESJ) Decorative 9" wall 2 L 25W LF4 T8 2 L 25W LF4 T8 1 T LEL T8 IS NPJ Surface Surface Surface Door 13 Door 13 Door 13 Door 13 Door 13 Door 13 Door 13 Door 13 Door 13 | 43.0 | 15 | 3,900 | 2,516 | PHILLIPS- EVOKIT2X4-25W- 40K | 25.0 | 15 | 3,90 | 0 | 463 | o | Q \$ | \$121 | 0 \$ | 0\$ |
| C Wing Hallway NPJ/ A Standard Strip 4' Surface Door 13 Driver 1'2 CW LED Array [1x LED Array [1x LED Array [1x LED Array [1x LED Array [1x LED Array [1x LED | 14.0 | 2 | 3,900 | 109 | GC-5.5W-PLS-40K- 2L | 11.0 | 7 | 0 3,90 | 00 | 36 | o | 80 | \$3 | 0 | \$0 |
| 1L 20W LED Door 13 Array [1x LED Vestibule | 43.0 | ° | 3,900 | 503 | ULT-248-12W-40K- DE | 24.0 | e | 3,90 | 00 | 81 | o | \$0 | \$26 | 0\$ | \$0 |
| Canopy 10" x 10" Surface | 20.0 | 5 | 3,900 | 156 | Do Nothing | 20.0 | 5 | 0 3,90 | 00 | 56 | 0 | \$0 | 0\$ | 0\$ | 0\$ |
| 3L 25W LF4 T8 Room 156 - [2x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 67.0 | 15 | 2,160 | 2,171 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 15 | 0 2,16 | 0 | 07 | o | 0\$ | \$145 | 0\$ | \$0 |
| 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | ~ | 2,160 | 136 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | - | 0 2,16 | 0 | 30 | 0 | 0\$ | 0 \$ | 0\$ | \$0 |
| 2L 25W LF4 T8 [1x ELE T8 IS NPJ/ Wrap 4' Surface | 43.0 | - | 2,160 | 93 | LITHONIA-STL4- 27W-40K | 27.0 | ← | 0 2,16 | 0 | 80 | 0 | \$ | \$4 | 0 \$ | \$0 |

| ublic Schools | - Fixture/Kit Option |
|---------------|----------------------|
| ked Wing Pr | Elementary |
| ISD #256 F | Burnside I |



| Area | | EX | isting | | | | | Propose | d Solution | L | l | l | l | Savings | l | |
|---------------------------|-------------------------------------------------------------------------------------|-------|-------------|-------|-------|---------------------------------------|-------|-------------|------------|-------|-----|----------|----------|---------|--------|-------------|
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | Qty % | 6 Red. | Burn | kWh | ctrl Qty | Rebates | Energy | HVAC N | laintenance |
| Room 156C | 3L 25W LF4 T8 [1× ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | - | 2,160 | 136 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | - | 0 | 2,160 | 80 | o | S | တမ္ | 0\$ | Ş |
| Room 170 - Supply Room | 1L 30W LED Linear Board [1x LED DRIVER]/ Standard Strip 4' Wall | 30.0 | | 250 | ω | Do Nothing | 30.0 | | 0 | 250 | ω | 0 | 80 | 0\$ | 0\$ | 0\$ |
| Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | 4 | 1,800 | 310 | ULT-248-12W-40K- DE | 24.0 | 4 | 0 | 1,800 | 173 | o | \$0 | \$16 | 0\$ | 0\$ |
| Boys Restroom | 1L 20W LED Array [1x LED DRIVER/ Canopy 10" × 10" Surface | 20.0 | б | 1,800 | 108 | Do Nothing | 20.0 | б | 0 | 1,800 | 108 | o | \$0 | 0\$ | 0\$ | 0\$ |
| Boys showers | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Can 13? Recessed | 52.0 | 7 | 250 | 26 | GC-9W-PLO-40K-2L | 18.0 | 0 | 0 | 250 | Ø | o | \$0 | \$2 | 0\$ | 80 |
| Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | e | 1,800 | 232 | ULT-248-12W-40K- DE | 24.0 | б | 0 | 1,800 | 130 | o | \$0 | \$12 | 0\$ | \$0 |
| Girls Restroom | 1L 20W LED Array [1x LED DRIVER/ Canopy 10" × 10" Surface | 20.0 | n | 1,800 | 108 | Do Nothing | 20.0 | ç | 0 | 1,800 | 108 | o | \$0 | 0 \$ | 0\$ | 0\$ |
| Girls Showers | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Can 13? Recessed | 52.0 | 0 | 250 | 56 | GC-9W-PLO-40K-2L | 18.0 | р | 0 | 250 | Ø | o | 8 | \$2 | 0\$ | 8 |
| Room 157 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 15 | 2,160 | 2,171 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 15 | 0 | 2,160 | 206 | o | \$0 | \$145 | 0\$ | 0\$ |
| Room 157A | 3L 25W LF4 T8 [1× ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 2 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | 0\$ | \$17 | 0\$ | 0\$ |

Page 36 of 59

| ublic Schools | - Fixture/Kit Option |
|---------------|----------------------|
| Red Wing Pu | Elementary |
| ISD #256 | Burnside |



| Area | | Ě | listing | | | | | Propose | ed Solutic | on | | | | Savings | | |
|--------------------------|--------------------------------------------------------------------------|-------|---------|-------|-------|---------------------------------------|-------|--------------|------------|-------|-------|----------|---------|-----------|------|-------------|
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | oty | % Red. | Burn | kWh | ctrl Qty | Rebates | Energy | HVAC | Maintenance |
| Room 157 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | - | 2,160 | 93 | LITHONIA-STL4- 27W-40K | 27.0 | - | 0 | 2,160 | 28 | o | 0\$ | \$4 | 0\$ | 0\$ |
| Room 158 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 15 | 2,160 | 2,171 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 15 | 0 | 2,160 | 206 | o | 0\$ | \$145 | 0\$ | 0\$ |
| Room 158A | 3L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | 0\$ | \$17 | 0\$ | 0\$ |
| Room 158 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | ~ | 2,160 | 93 | LITHONIA-STL4- 27W-40K | 27.0 | ~ | 0 | 2,160 | 58 | 0 | 0\$ | \$ | 0\$ | 0\$ |
| Room 160 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 67.0 | 17 | 2,160 | 2,460 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 17 | 0 | 2,160 | 1,028 | o | 0\$ | \$ 164 | 0\$ | 0\$ |
| Room 160A | 3L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 63.0 | ~ | 2,160 | 136 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | . | 0 | 2,160 | 60 | o | 0\$ | တ မာ | 0\$ | 0\$ |
| Room 160B | 3L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | р | 0 | 2,160 | 121 | o | 0\$ | \$17 | 0\$ | 0\$ |
| Room 160 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | - | 2,160 | 93 | LITHONIA-STL4- 27W-40K | 27.0 | - | 0 | 2,160 | 28 | o | 0\$ | \$4 | 0\$ | 0\$ |
| Room 160D | 3L 25W LF4 T8 [1x ELE T8 IS NPJ/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 2,160 | 272 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 2,160 | 121 | o | 0\$ | \$17 | 0\$ | 0\$ |
| Room 160E | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | ~ | 2,160 | 136 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | | 0 | 2,160 | 60 | o | 0\$ | တ မာ | 0\$ | 0\$ |
| Room 163A - Receiving | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ | 43.0 | 16 | 4,160 | 2,862 | ULT-248-12W-40K- DE | 24.0 | 16 | 0 | 4,160 | 1,597 | 0 | 0\$ | \$145 | 0\$ | 0\$ |

Page 37 of 59

| ublic Schools | - Fixture/Kit Option |
|---------------|----------------------|
| Red Wing Pu | e Elementary |
| ISD #256 | Burnside |



| Area | | Ex | isting | l | l | | | Propose | ed Soluti | on | l | l | l | Savings | l | l |
|----------------------------|----------------------------------------------------------------------------|-------|--------|-------|-------|-------------------------------------|-------|---------|-----------|-------|-------|----------|---------|----------|---------|------------|
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | aty . | % Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC M | aintenance |
| | Standard Strip 4' Chain/Cable | | | | | | | | | | | | | | | |
| Room 161B - Maintenance | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 63.0 | 7 | 4,160 | 524 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 7 | 0 | 4,160 | 233 | 0 | 0\$ | \$33 | 0 & | \$0 |
| Room 163B - Boiler | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Chain/Cable | 43.0 | 12 | 4,160 | 2,147 | ULT-248-12W-40K- DE | 24.0 | 12 | 0 | 4,160 | 1,198 | 0 | 0\$ | \$109 | \$0 | 0\$ |
| Room 163C - Garage | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 43.0 | Ν | 4,160 | 358 | ULT-248-12W-40K- DE | 24.0 | N | 0 | 4,160 | 200 | 0 | 0\$ | \$ 28 | \$0 | 0\$ |
| Restroom | 2L 25W LF4 T8 [1× ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | - | 4,160 | 179 | LITHONIA-STL4- 27W-40K | 27.0 | - | 0 | 4,160 | 112 | o | 0\$ | 89 | 0\$ | 0\$ |
| Freezer | 2L 15W LL4A T8 [1× ELE T8 IS NP]/ Vaportight 4' Surface | 34.0 | - | 4,160 | 141 | Do Nothing | 34.0 | - | 0 | 4,160 | 141 | o | \$ | 0\$ | 0\$ | 0\$ |
| Refrigerator | 2L 15W LL4A T8 [1× ELE T8 IS NPJ/ Vaportight 4' Surface | 34.0 | ~ | 4,160 | 141 | Do Nothing | 34.0 | ~ | 0 | 4,160 | 141 | 0 | 0\$ | 0 \$ | 0\$ | 0\$ |
| Room 162 - Kitchen | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 17 | 4,160 | 4,738 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | 17 | 0 | 4,160 | 1,980 | 0 | 0\$ | \$317 | 0 \$ | \$0 |
| Room 162A | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | б | 4,160 | 836 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | б | 0 | 4,160 | 349 | 0 | 0\$ | \$56 | 0 \$ | 0\$ |
| Room 162B - Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Wrap 4' Surface | 43.0 | ~ | 1,800 | 77 | LITHONIA-STL4- 27W-40K | 27.0 | - | 0 | 1,800 | 49 | 0 | 0\$ | 89 8 | 0\$ | 0\$ |
| Room 162E - Storage | 2L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 43.0 | б | 250 | 32 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | n | 0 | 250 | 21 | 0 | 0\$ | \$ | 0\$ | 0\$ |

| | 1 |
|-----------|-----|
| ŝ | |
| | |
| 0 | |
| ×. | . 1 |
| 0 | |
| _ | |
| 7 | |
| | |
| S | |
| | |
| 0 | |
| | - |
| _ | 1 |
| <u> </u> | |
| - | |
| 5 | |
| the state | |
| _ | |
| 0) | |
| | |
| | |
| > | |
| > | |
| - | |
| | |
| ă. | |
| ~ | ï |
| CC . | |
| | |
| S | |
| IO. | |
| 21 | |
| 5.9 | |
| 71: | |
| _ | |
| | |
| 10 | |
| U) | 1 |
| _ | - 1 |



| Duriiside | a Elementary - r | IXIII E | | | | | | | | | | | | | | |
|--------------------------------------|--------------------------------------------------------------------------|---------|------------|-------|--------|---------------------------------------|-------|-----------------|----------------------|------------|-------|----------|---------|-------------------|------|-------------|
| Area Room | Existing | Watts | ating Caty | Burn | kWh | Proposed | Watts | ropose Oty 9 | ed Solutio % Red. | on Burn | kWh | Ctrl Qty | Rebates | Savings Energy | HVAC | Maintenance |
| Room 154 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 36 | 4,160 | 10,034 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 36 | 0 | 4,160 | 4,193 | 0 | 0\$ | \$671 | 0\$ | 0\$ |
| Room 159 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 10 | 4,160 | 2,787 | PHILLIPS- EVOKIT2X4-28W- 40K-SD | 28.0 | 10 | 0 | 4,160 | 1,165 | o | 0\$ | \$186 | 0\$ | 0\$ |
| Room 159C - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | - | 250 | 17 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | - | 0 | 250 | ~ | 0 | 0 \$ | \$ | 0 | 8 |
| Room 159B - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | - | 250 | 17 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | ~ | 0 | 250 | ۲ | 0 | 80 | \$ | 0\$ | 8 |
| Room 159A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | - | 250 | 17 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | ~ | 0 | 250 | ~ | o | O S | 6 | 0\$ | 8 |
| Room 154A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | m | 250 | 20 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | n | 0 | 250 | 5 | 0 | 0 S | ŝ | 0\$ | 8 |
| Music Room Hallway | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 2 | 3,900 | 523 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | Ν | 0 | 3,900 | 218 | 0 | 0 S | 43 43 | 0\$ | 8 |
| Room 153C - Music Room Storage | 3L 25W LF4 T8 [1×ELE T8 IS NP]/ Lensed Troffer 2x4 Surface | 63.0 | 4 | 2,160 | 544 | ESI-K-24LT-F4N0-2S- 40-FR-D | 30.0 | 4 | 0 | 2,160 | 259 | 0 | 0 \$ | \$33 \$ | 0\$ | 8 |
| Room 153B | 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 67.0 | 2 | 2,160 | 289 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | N | 0 | 2,160 | 121 | 0 | 0 & | භ ර | 0\$ | 8 |
| Room 153 - Music Room | 3L 25W LF4 T8 [1x ELE T8 IS NP]/ Lensed Troffer 2x4 Surface | 63.0 | 15 | 2,160 | 2,041 | ESI-K-24LT-F4N6-2S- 40-FR-SD | 36.0 | 15 | 0 | 2,160 | 1,166 | 0 | 0 \$ | \$100 | \$0 | \$0 |

Page 39 of 59

| | , |
|--------|---------------|
| S | (|
| School | 1 1 1 1 1 1 1 |
| ~ | , |
| Public | i |
| Wing | , |
| Red | i |
| #256 | |
| SD | |



| | elementary - F | ixture/K | it Optic | u | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------|-------------------|-----------|----------------|-------|-------|---------------------------------------------------|-------|---------------|---------------------|-------|-------|----------|---------|-------------------|------|-------------|
| Existing | | Watts | xisting Oty | Burn | kWh | Proposed | Watts | Propos Qty | ed Soluti % Red. | Burn | kWh | Ctrl Qty | Rebates | Savings Energy | HVAC | Maintenance |
| 6L 25W LF4 T8 [2x ELE T8 IS NP]/ Highbay 1x8 Surface | 1 | 126.0 | 12 | 3,120 | 4,717 | LITHONIA-IBG- 105W-50K-AFL-GND- RIO-WGX-DWH | 105.0 | 12 | 30 | 2,184 | 2,752 | ~ | 0\$ | \$226 | 0\$ | Q\$ |
| 6L 25W LF4 T8 [2x ELE T8 IS NP]/ Highbay 1x8 Surfact | | 126.0 | 12 | 3,120 | 4,717 | LITHONIA-IBG- 105W-50K-AFL-GND- RIO-WGX-DWH | 105.0 | 5 | 30 | 2,184 | 2,752 | - | 0\$ | \$226 | 0\$ | \$0 |
| 3L 25W LF4 T8 [2x ELE T8 IS NP]/ Lensed Troffer 2x4 Recessed | 0 | 67.0 | б | 1,800 | 362 | PHILIPS- EVOKIT2X4-28W- 40K-D | 28.0 | с | 0 | 1,800 | 151 | o | 0\$ | \$24 | 0 | 0 \$ |
| 2L 25W LF4 T [1x ELE T8 IS NP]/ Standard Strip 4' Surface | œ | 43.0 | б | 250 | 32 | ULT-248-12W-40K- DE | 24.0 | с | 0 | 250 | 8 | o | 0\$ | \$ | 0\$ | 0 \$ |
| 2L 25W LF4 1 [1× ELE T8 IS NP]/ Standard Strip 4' Surface | 8 | 43.0 | б | 250 | 32 | ULT-248-12W-40K- DE | 24.0 | n | 0 | 250 | 8 | o | 0\$ | \$ | 0\$ | 8 |
| 2L 25W LF4 ⁻ [1x ELE T8 D NP]/ Lensed Troffer 2 ³ Recessed | T8 | 43.0 | ى ا | 3,900 | 839 | PHILLIPS- EVOKIT2X4-25W- 40K | 25.0 | ß | 0 | 3,900 | 488 | o | 0\$ | \$40 | 0\$ | 0\$ |
| 2L 25W LF4 [1x ELE T8 I NP]/ Lensed Troffer 2 Recessed | 5 0 ⁴ | 43.0 | ω | 3,900 | 1,342 | PHILLIPS- EVOKIT2X4-25W- 40K | 25.0 | ω | 0 | 3,900 | 780 | o | 0\$ | \$64 | 0\$ | 0 \$\$ |
| 1L 40W LED Linear Board LED DRIVEF Lensed Troffer 2: Recessed | 2]/ 2]/ 2]/ | 40.0 | ~ | 3,900 | 156 | Do Nothing | 40.0 | - | 0 | 3,900 | 156 | o | 0\$ | 0 \$ | 0\$ | 0\$ |
| 1L 20W LED Array [1x LEE DRIVER/ Canopy 10" x 10' Surface | 0 | 20.0 | ~ | 3,900 | 78 | Do Nothing | 20.0 | ~ | 0 | 3,900 | 78 | o | 0\$ | 0 \$ | 0\$ | 0\$ |
| 1L 23W CFS Triple tube [0 Null/ Jelly Jar Surface | ≥ × | 23.0 | 7 | 250 | 12 | GC-16.5W-A21-40K- 1L | 16.5 | 5 | 0 | 250 | ω | 0 | \$0 | 0\$ | 0\$ | \$0 |
| entary / Inte | rior | - Mezzani | ine | | | | | | | | | | | | | |

| ublic Schools | - Fixture/Kit Option |
|---------------------|----------------------|
| ISD #256 Red Wing P | Burnside Elementary |



| Area | | Û | xisting | | | | | ropose | ed Solutio | u | | | | Savings | | |
|----------------------------|------------------------------------------------------------------------|-------|---------|------|---------|------------------------|-------|-------------|------------|------|--------|----------|----------|----------|-----------|-------------|
| Room | Existing | Watts | Qty | Burn | kWh | Proposed | Watts | oty | % Red. | Burn | kWh | Ctrl Qty | Rebates | Energy | HVAC | Maintenance |
| Room 200 | 2L 32W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 58.0 | a | 250 | 73 | ULT-248-12W-40K- DE | 24.0 | വ | o | 250 | 90 | o | Ş | 8 2 | \$0 \$ | O\$ |
| Room 200A - crawl space | 1L 60W INCS-M A19 [0x NULL]/ Porcelain Socket Wall | 60.0 | - | 250 | 15 | GC-9W-A19-40K-1L | 0.0 | | 0 | 250 | 7 | 0 | 0\$ | \$1 | 0\$ | \$0 |
| Room 201 | 2L 32W LF4 T8 [1× ELE T8 IS NP]/ Standard Strip 4' Surface | 58.0 | 10 | 250 | 145 | ULT-248-12W-40K- DE | 24.0 | 10 | 0 | 250 | 00 | o | 0\$ | \$10 | 0 \$ | 0 S |
| Room 201A | 2L 32W LF4 T8 [1x ELE T8 IS NP]/ Standard Strip 4' Surface | 58.0 | 10 | 250 | 145 | ULT-248-12W-40K- DE | 24.0 | 10 | 0 | 250 | 00 | o | 0\$ | \$10 | 0 \$ | 80 |
| Room 202 | 2L 32W LF4 T8 [1× ELE T8 IS NP]/ Standard Strip 4' Surface | 58.0 | Q | 250 | 73 | ULT-248-12W-40K- DE | 24.0 | 5 | 0 | 250 | 30 | 0 | \$0 | су С | \$0 | 0 |
| Room 200B - crawl space | 1L 60W INCS-M A19 [0x NULL]/ Porcelain Socket Wall | 60.0 | ~ | 250 | 15 | GC-9W-A19-40K-1L | 0.0 | | 0 | 250 | 5 | 0 | 0\$ | \$1 | 0\$ | \$0 |
| Room 203 | 2L 32W LF4 T8 [1× ELE T8 IS NP]/ Standard Strip 4' Surface | 58.0 | 7 | 250 | 102 | ULT-248-12W-40K- DE | 24.0 | 2 | 0 | 250 | 42 | o | 0\$ | 2\$ | 0 \$ | 0 S |
| Totals | | | 1240 | | 199,614 | | | 1240 | | | 94,440 | | \$20,233 | \$12,074 | \$0 | \$0 |



Lighting Control Benefits



Over 4% increase in energy savings!



| Lighting Only Savings | | Lighting + Control Savings |
|-----------------------|---------------------|----------------------------|
| \$232,548 | Project Cost | \$235,500 |
| \$11,644 | Energy Savings | \$12,074 |
| \$0 | Maintenance Savings | \$0 |
| \$0 | HVAC Savings | \$0 |
| \$20,233 | Rebates | \$20,233 |
| 18.2 yrs | Payback | 17.8 yrs |

10 Year Savings Comparison



\$6,855.00 Estimated 10 Year Opportunity Lost



Area Floor Plan

Burnside Elementary / Exterior





| ID# | Room | Existing | Action | Existing Qty | Proposed | Proposed Qty | Control |
|-----|---------|-----------------------------------------|----------|-----------------|-----------------------------------------------|-----------------|---------|
| 2 | Door 1 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 14 | KEYSTONE-9.5W-A19-50K-1L | 14 | |
| 3 | Door 2 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 2 | KEYSTONE-9.5W-A19-50K-1L | 2 | |
| 4 | Door 3 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 2 | KEYSTONE-9.5W-A19-50K-1L | 2 | |
| 5 | WP 1 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 6 | WP 2 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 7 | WP 3 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 8 | WP 4 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 9 | WP 5 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 10 | WP 6 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 11 | Door 5 | 1L 70W HPS MED BASE HID [1x MAG] | Retrofit | 1 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 1 | |
| 12 | Door 5 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 3 | KEYSTONE-9.5W-A19-50K-1L | 3 | |
| 13 | WP 7 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 14 | WP 8 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 15 | WP 9 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 16 | WP 10 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 17 | WP 11 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 18 | WP 12 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 19 | WP 13 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 20 | WP 14 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 21 | WP 15 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 22 | Door 13 | 1L 70W HPS MED BASE HID [1x MAG] | Retrofit | 1 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 1 | |
| 23 | WP 16 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 24 | WP 17 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 25 | WP 18 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 26 | WP 19 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 27 | WP 20 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 28 | WP 21 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 | |
| 29 | Door 15 | 1L 70W HPS MED BASE HID [1x MAG] | Retrofit | 1 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 1 | |
| 30 | Door 15 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 3 | KEYSTONE-9.5W-A19-50K-1L | 3 | |





| 31 | WP 22 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
|----|---------|-----------------------------------------|----------|----|-----------------------------------------------|----|
| 32 | WP 23 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 33 | WP 24 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 34 | WP 25 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 35 | WP 26 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 36 | Door 17 | 1L 70W HPS MED BASE HID [1x MAG] | Retrofit | 1 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 1 |
| 37 | WP 27 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 38 | WP 28 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 39 | WP 29 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 40 | WP 29 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 2 | KEYSTONE-9.5W-A19-50K-1L | 2 |
| 41 | WP 30 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 42 | WP 31 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 43 | WP 31 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 2 | KEYSTONE-9.5W-A19-50K-1L | 2 |
| 44 | WP 32 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 45 | WP 33 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 46 | WP 34 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 47 | WP 35 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 48 | WP 36 | 1L 100W HPS MED BASE HID [1x MAG] | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 49 | Door 20 | 1L 70W HPS MED BASE HID [1x MAG] | Retrofit | 1 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 1 |
| 51 | WP 37 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 52 | WP 38 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 53 | WP 39 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 54 | Door 21 | 1L 70W HPS MED BASE HID [1x MAG] | Retrofit | 1 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 1 |
| 55 | Door 21 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 3 | KEYSTONE-9.5W-A19-50K-1L | 3 |
| 56 | WP 40 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 57 | WP 41 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 58 | WP 42 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 59 | WP 43 | 1L 22W LEDS-M COB [0x edit | Replace | 1 | CREE-XSPW-40W-50K-T4-DB | 1 |
| 60 | Door 22 | 1L 70W HPS MED BASE HID [1x MAG] | Retrofit | 1 | LITHONIA-LBR6-13W-50K-MWD-MVOLT- UGZ-AT-WL | 1 |
| 61 | Door 22 | 1L 12W LEDS-M A19 [0x NULL] | Relamp | 10 | KEYSTONE-9.5W-A19-50K-1L | 10 |
| 63 | Pole 1 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-187W-50K-R4-MVOLT- SPA-DDBXD | 1 |
| 64 | Pole 2 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-187W-50K-R4-MVOLT- SPA-DDBXD | 1 |



| 65 | Pole 3 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-187W-50K-R4-MVOLT- SPA-DDBXD | 1 |
|----|---------|-----------------------------------------|---------|---|-----------------------------------------------|---|
| 66 | Pole 4 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-187W-50K-R4-MVOLT- SPA-DDBXD | 1 |
| 67 | Pole 5 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-210W-50K-R5-MVOLT- SPA-DDBXD | 1 |
| 67 | Pole 5 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | | 1 |
| 68 | Pole 6 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-147W-50K-R2-MVOLT- SPA-DDBXD | 1 |
| 69 | Pole 7 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-147W-50K-R2-MVOLT- SPA-DDBXD | 1 |
| 70 | Pole 8 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-210W-50K-R5-MVOLT- SPA-DDBXD | 1 |
| 70 | Pole 8 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | | 1 |
| 71 | Pole 9 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-210W-50K-R5-MVOLT- SPA-DDBXD | 1 |
| 71 | Pole 9 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | | 1 |
| 72 | Pole 10 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-210W-50K-R5-MVOLT- SPA-DDBXD | 1 |
| 72 | Pole 10 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | | 1 |
| 73 | Pole 11 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-187W-50K-R4-MVOLT- SPA-DDBXD | 1 |
| 75 | Pole 12 | 1L 400W HPS MOG BASE HID [1x MAG] | Replace | 1 | LITHONIA-RSX2-187W-50K-R4-MVOLT- SPA-DDBXD | 1 |



Burnside Elementary / Interior





| ID# | Room | Existing | Action | Existing Qty | Proposed | Proposed Qty | Control |
|-----|------------------------------------|-----------------------------------------------|------------|-----------------|-------------------------------|-----------------|-----------------|
| 78 | Lobby | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Retrofit | 3 | PHILLIPS-EVOKIT2X4-25W-40K | 3 | |
| 79 | Lobby | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 7 | PHILLIPS-EVOKIT2X4-25W-40K | 7 | |
| 81 | Lobby | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Retrofit | 17 | ULT-248-12W-40K-DE | 17 | |
| 83 | Trophy Case | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Retrofit | 4 | ULT-248-12W-40K-DE | 4 | |
| 85 | Room 100 - Main Office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 6 | PHILIPS-EVOKIT2X4-28W-40K-D | 6 | |
| 87 | Room 101 - Principals Office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 4 | PHILIPS-EVOKIT2X4-28W-40K-D | 4 | |
| 88 | Room 102 - Health Services | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 | |
| 89 | Room 102 - Health Services | 2L 60W INCS-M A19 [0x NULL] | Relamp | 2 | GC-9W-A19-40K-2L | 2 | |
| 90 | Room 102 - Health Services | 2L 13W CFS-M SPIRAL [0x NULL] | Relamp | 1 | GC-9W-A19-40K-2L | 1 | |
| 92 | Room 102A - health services office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 93 | Health Services Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 | |
| 94 | Room 103 | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 4 | PHILIPS-EVOKIT2X4-28W-40K-D | 4 | |
| 95 | Restroom 1 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 | |
| 96 | Restroom 2 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 | |
| 97 | Room 104 - breakroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 4 | PHILIPS-EVOKIT2X4-28W-40K-D | 4 | |
| 99 | Room 104A - copy room | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 9 | PHILIPS-EVOKIT2x4-19W-40K-HE | 9 | |
| 100 | Room 104B - Server Room | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 101 | Room 105 - Wellness Room | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 4 | ESI-F-24LX-38W-RGBW-MC | 4 | ENOCEAN-ESRPB-W |
| 103 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 35 | PHILLIPS-EVOKIT2X4-25W-40K | 35 | |
| 104 | A Wing Hallway B | 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] | Do Nothing | 4 | GC-5.5W-PLS-40K-2L | 4 | |
| 105 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 3 | ULT-248-12W-40K-DE | 3 | |
| 106 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 3 | ULT-248-12W-40K-DE | 3 | |
| 107 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 6 | ULT-248-12W-40K-DE | 6 | |
| 108 | Room 106 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 109 | Room 107 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 110 | Room 108 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-348-12W-40K-DE | 2 | |
| 111 | Room 109 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-348-12W-40K-DE | 2 | |
| 112 | Room 110 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 113 | Room 111 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 114 | Room 111 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 3 | PHILIPS-EVOKIT2X4-28W-40K-D | 3 | |
| 115 | Room 111 - classroom | 1L 150W INCS-M PAR38 [0x NULL] | Relamp | 6 | GC-17W-PAR38-40K-1L-277V | 6 | |
| 116 | Room 111A | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 117 | Room 112 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 118 | Room 113 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 119 | Room 114 - Supplies | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 3 | PHILIPS-EVOKIT2X4-28W-40K-D | 3 | |



| 120 | Room 115 - classroom | 3L 25W LF4 18 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
|-----|------------------------------------|------------------------------------------------|----------|----|----------------------------------------|----|-----------------|
| 122 | Room 116 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 123 | Room 117 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 124 | Room 118 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 126 | Room 119 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 127 | Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 4 | ULT-248-12W-40K-DE | 4 | |
| 129 | Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 4 | ULT-248-12W-40K-DE | 4 | |
| 131 | Room 120 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 132 | Room 124 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | ULT-248-12W-40K-DE | 1 | |
| 133 | Room 121 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 134 | Room 122 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ESI-F-24LX-38W-RGBW-MC | 2 | ENOCEAN-ESRPB-W |
| 135 | Room 123 - student services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 136 | Room 124 | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Retrofit | 1 | GC-9W-PLO-40K-2L | 1 | |
| 137 | Room 125 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 12 | |
| 138 | Room 126 - Conference Room | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 139 | Room 127 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 14 | ESI-F-24LX-38W-RGBW-MC | 14 | ENOCEAN-ESRPB-W |
| 140 | Room 127A | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 141 | Room 128 | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 142 | Room 129 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 14 | ESI-F-24LX-38W-RGBW-MC | 14 | ENOCEAN-ESRPB-W |
| 143 | Women?s Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-248-12W-40K-DE | 2 | |
| 147 | Mens Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-248-12W-40K-DE | 2 | |
| 149 | Room 130 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 16 | ESI-F-24LX-38W-RGBW-MC | 16 | ENOCEAN-ESRPB-W |
| 150 | Room 130 - classroom | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Retrofit | 1 | LITHONIA-LBR8-9W-40K-MWD-MVOLT- UGZ | 1 | |
| 151 | A Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 7 | PHILLIPS-EVOKIT2X4-25W-40K | 7 | |
| 153 | A Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 14 | ULT-248-12W-40K-DE | 14 | |
| 154 | A Wing Hallway A | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-236-12W-40-DE | 2 | |
| 155 | Media Center | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 31 | PHILIPS-EVOKIT2X4-28W-40K-D | 31 | |
| 157 | Media Center | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 4 | ULT-248-12W-40K-DE | 4 | |
| 158 | Media Center | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-236-12W-40-DE | 2 | |
| 159 | Media Center | 2L 17W LF2 T8 [1x ELE T8 IS NP] | Retrofit | 1 | ULT-224-9W-40K-DE | 1 | |
| 160 | Room 131A - Media Center Office | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 161 | Room 131B - Copy Room | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 162 | Room 132 | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 6 | PHILIPS-EVOKIT2X4-28W-40K-D | 6 | |
| 163 | Room 132A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 4 | PHILIPS-EVOKIT2X4-28W-40K-D | 4 | |
| 165 | Room 133 | 10L 25W LF4 T8 [3x ELE T8 IS NP] | Retrofit | 1 | Lithonia-LBK 4FT 1 3000 40K (5) | 1 | |
| 167 | Room 133 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | Lithonia-LBK 4FT 1 3000 40K | 2 | |
| 168 | Room 133 | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Retrofit | 5 | Lithonia-LBK 3FT 1 2000 40K | 5 | |



| 169 | Room 136 | 10L 25W LF4 T8 [3x ELE T8 IS NP] | Retrofit | 1 | Lithonia-LBK 4FT 1 3000 40K (5) | 1 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------|
| 170 | Room 136 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 15 | Lithonia-LBK 4FT 1 3000 40K | 15 | |
| 171 | Room 136 | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Retrofit | 5 | Lithonia-LBK 3FT 1 2000 40K | 5 | |
| 172 | Room 135 | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 5 | PHILIPS-EVOKIT2X4-28W-40K-D | 5 | |
| 173 | B Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 7 | PHILLIPS-EVOKIT2X4-25W-40K | 7 | |
| 175 | B Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 16 | ULT-248-12W-40K-DE | 16 | |
| 176 | B Wing Hallway A | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Retrofit | 1 | ULT-236-12W-40-DE | 1 | |
| 177 | Room 134 - Classroom | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 6 | PHILIPS-EVOKIT2X4-28W-40K-D | 6 | |
| 178 | Room 137 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 15 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 15 | |
| 179 | Room 137A | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 180 | Room 137B | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 181 | Room 137C | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 182 | Room 138/139 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 5 | PHILIPS-EVOKIT2X4-28W-40K-D | 5 | |
| 184 | B Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 26 | PHILLIPS-EVOKIT2X4-25W-40K | 26 | |
| 185 | B Wing Hallway B | 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] | Relamp | 2 | GC-5.5W-PLS-40K-2L | 2 | |
| 186 | B Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 5 | ULT-248-12W-40K-DE | 5 | |
| 187 | B Wing Hallway B | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-236-12W-40-DE | 2 | |
| 188 | Room 140 | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 3 | PHILIPS-EVOKIT2X4-28W-40K-D | 3 | |
| | Dears 111 also and an | 3L 25W LF4 T8 [2x | | | | • | |
| 189 | Room 141 - classroom | ELE T8 IS NP] | Retrofit | 8 | ESI-F-24LX-38W-RGBW-MC | 8 | ENOCEAN-ESRPB-W |
| 189 190 | Room 141 - classroom Room 141 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 3 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D | 3 | ENOCEAN-ESRPB-W |
| 189 190 191 | Room 141 - classroom Room 141 - classroom Room 141A | ELE T8 IS NP] 3L 25W LF4 T8 [2x ELE T8 IS NP] 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit Retrofit Retrofit | 8 3 2 | PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D | 8 3 2 | ENOCEAN-ESRPB-W |
| 189 190 191 192 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2x ELE T8 IS NP] 3L 25W LF4 T8 [1x ELE T8 IS NP] 3L 25W LF4 T8 [1x ELE T8 IS NP] 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 | PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE | 8 3 2 12 1 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 1 12 | PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 1 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 1 12 2 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILIPS-EVOKIT2X4-28W-40K-D | 8 3 2 12 1 1 12 2 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 1 12 2 12 | PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 1 12 2 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 193 194 195 196 198 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom Room 146 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 1 12 2 12 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 12 2 12 12 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 198 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom Room 146 - classroom Boys Restroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] SL 25W LF4 T8 [1X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 1 2 12 12 12 12 3 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE | 8 3 2 12 1 1 12 2 12 12 12 3 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 198 199 201 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom Room 146 - classroom Boys Restroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 12 12 12 12 12 3 3 3 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE | 8 3 2 12 1 12 12 12 12 12 3 3 3 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 198 199 201 203 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom Room 146 - classroom Girls Restroom Girls Restroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [2X ELE T8 IS NP] 2L 25W LF4 T8 [2X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 1 2 12 12 12 3 3 3 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 1 2 12 12 12 3 3 3 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 198 199 201 203 204 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom Room 146 - classroom Girls Restroom Room 147 - classroom Room 147 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 1 2 12 12 12 3 3 12 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 1 2 12 12 12 3 3 12 12 | ENOCEAN-ESRPB-W |
| 199 190 191 192 193 194 195 196 198 199 201 203 204 206 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 145 - classroom Room 146 - classroom Girls Restroom Girls Restroom Room 147 - classroom Room 148 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 4L 25W LF4 T8 [2X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 2 12 12 12 3 3 3 12 12 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 2 12 12 12 3 3 12 12 12 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 198 199 201 203 204 205 207 | Room 141 - classroomRoom 141 - classroomRoom 141ARoom 142 - classroomServer RoomRoom 143 - classroomRoom 144Room 145 - classroomRoom 146 - classroomGirls RestroomGirls RestroomRoom 147 - classroomRoom 148 - classroomRoom 148 - classroomRoom 149 - classroomRoom 140 - classroom | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] </td <td>Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit</td> <td>8 3 2 12 1 2 12 12 12 3 3 12 12 12 12 12</td> <td>ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD</td> <td>8 3 2 12 1 2 12 12 12 3 3 3 12 12 12 12 12</td> <td>ENOCEAN-ESRPB-W</td> | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 2 12 12 12 3 3 12 12 12 12 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 2 12 12 12 3 3 3 12 12 12 12 12 | ENOCEAN-ESRPB-W |
| 199 190 191 192 193 194 195 196 198 199 201 203 204 206 207 208 | Room 141 - classroomRoom 141 - classroomRoom 141ARoom 142 - classroomServer RoomRoom 143 - classroomRoom 144Room 145 - classroomRoom 146 - classroomGirls RestroomGirls RestroomRoom 147 - classroomRoom 148 - classroomRoom 148 - classroomRoom 149 - classroomCom 150 - classroomC Wing Hallway A | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] </td <td>Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit</td> <td>8 3 2 12 1 2 12 12 12 3 3 12 12 12 12 12 12 12 12</td> <td>ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD</td> <td>8 3 2 12 1 2 12 12 12 12 3 3 12 12 12 12 12 12 12 12</td> <td>ENOCEAN-ESRPB-W</td> | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 2 12 12 12 3 3 12 12 12 12 12 12 12 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 2 12 12 12 12 3 3 12 12 12 12 12 12 12 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 198 199 201 203 204 207 208 209 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom Girls Restroom Girls Restroom Girls Restroom Room 147 - classroom Room 148 - classroom Room 149 - classroom Cowing Hallway A | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] </td <td>Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit</td> <td>8 3 2 12 1 2 12 12 12 12 3 3 12 12 12 12 12 12 12 12 12 12 12 2</td> <td>ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD</td> <td>8 3 2 12 1 2 12 12 12 12 12 12 12 12 12 12</td> <td>ENOCEAN-ESRPB-W</td> | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 2 12 12 12 12 3 3 12 12 12 12 12 12 12 12 12 12 12 2 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 2 12 12 12 12 12 12 12 12 12 12 | ENOCEAN-ESRPB-W |
| 189 190 191 192 193 194 195 196 197 198 199 201 203 204 205 206 207 208 209 210 | Room 141 - classroom Room 141 - classroom Room 141A Room 142 - classroom Server Room Room 143 - classroom Room 144 Room 145 - classroom Room 146 - classroom Girls Restroom Girls Restroom Room 147 - classroom Room 148 - classroom Room 148 - classroom Cowing Hallway A C Wing Hallway A | ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 4L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 2L 25W LF4 T8 [1X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 3L 25W LF4 T8 [2X ELE T8 IS NP] 2L 25W LF4 T8 [2X ELE T8 IS NP] </td <td>Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit</td> <td>8 3 2 12 1 2 12 12 12 3 3 12 12 12 12 12 12 12 12 12 12 12 12 12</td> <td>ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD</td> <td>8 3 2 12 1 2 12 12 12 12 12 12 12 12 12 12</td> <td>ENOCEAN-ESRPB-W</td> | Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit Retrofit | 8 3 2 12 1 2 12 12 12 3 3 12 12 12 12 12 12 12 12 12 12 12 12 12 | ESI-F-24LX-38W-RGBW-MC PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-D PHILIPS-EVOKIT2X4-28W-40K-SD ULT-448-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD ULT-248-12W-40K-DE PHILLIPS-EVOKIT2X4-28W-40K-SD PHILLIPS-EVOKIT2X4-28W-40K-SD | 8 3 2 12 1 2 12 12 12 12 12 12 12 12 12 12 | ENOCEAN-ESRPB-W |



| 213 | Room 156B | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 |
|-----|-------------------------|------------------------------------------------|------------|----|---------------------------------|----|
| 214 | Room 156B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 |
| 215 | Room 156C | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 |
| 217 | Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 4 | ULT-248-12W-40K-DE | 4 |
| 219 | Boys showers | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Retrofit | 2 | GC-9W-PLO-40K-2L | 2 |
| 220 | Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 3 | ULT-248-12W-40K-DE | 3 |
| 222 | Girls Showers | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Retrofit | 2 | GC-9W-PLO-40K-2L | 2 |
| 223 | Room 157 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 15 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 15 |
| 224 | Room 157A | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 |
| 225 | Room 157 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 |
| 226 | Room 158 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 15 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 15 |
| 227 | Room 158A | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 |
| 228 | Room 158 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 |
| 229 | Room 160 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 17 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 17 |
| 230 | Room 160A | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 |
| 231 | Room 160B | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 |
| 232 | Room 160 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 |
| 233 | Room 160D | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 |
| 234 | Room 160E | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 |
| 235 | Room 163A - Receiving | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 16 | ULT-248-12W-40K-DE | 16 |
| 236 | Room 161B - Maintenance | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 |
| 237 | Room 163B - Boiler | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 12 | ULT-248-12W-40K-DE | 12 |
| 238 | Room 163C - Garage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 2 | ULT-248-12W-40K-DE | 2 |
| 239 | Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 |
| 240 | Freezer | 2L 15W LL4A T8 [1x ELE T8 IS NP] | Do Nothing | 1 | LITHONIA-FEM-24W-40K-LPPFL-STSL | 1 |
| 241 | Refrigerator | 2L 15W LL4A T8 [1x ELE T8 IS NP] | Do Nothing | 1 | LITHONIA-FEM-24W-40K-LPPFL-STSL | 1 |
| 242 | Room 162 - Kitchen | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 17 | PHILIPS-EVOKIT2X4-28W-40K-D | 17 |
| 243 | Room 162A | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 3 | PHILIPS-EVOKIT2X4-28W-40K-D | 3 |
| 244 | Room 162B - Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 1 | LITHONIA-STL4-27W-40K | 1 |
| 245 | Room 162E - Storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 3 | PHILIPS-EVOKIT2X4-28W-40K-D | 3 |
| 246 | Room 154 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 36 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 36 |
| 247 | Room 159 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 10 | PHILLIPS-EVOKIT2X4-28W-40K-SD | 10 |
| 248 | Room 159C - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 |
| 249 | Room 159B - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 |
| 250 | Room 159A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 1 | PHILIPS-EVOKIT2X4-28W-40K-D | 1 |
| 251 | Room 154A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 3 | PHILIPS-EVOKIT2X4-28W-40K-D | 3 |
| 252 | Music Room Hallway | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 |



| 253 | Room 153C - Music Room Storage | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 4 | ESI-K-24LT-F4N0-2S-40-FR-D | 4 | |
|-----|-----------------------------------|-----------------------------------------------|------------|----|-----------------------------------------------|----|-------------------------------------------------------|
| 254 | Room 153B | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 2 | PHILIPS-EVOKIT2X4-28W-40K-D | 2 | |
| 255 | Room 153 - Music Room | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 15 | ESI-K-24LT-F4N6-2S-40-FR-SD | 15 | |
| 256 | Room 151B - Gym | 6L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | LITHONIA-IBG-105W-50K-AFL-GND-RIO- WGX-DWH | 12 | NLIGHT- (1) RPODB-2S-DX-WH- G2 (1) 3G WP WH (2) SB |
| 257 | Room 151A - Gym | 6L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 12 | LITHONIA-IBG-105W-50K-AFL-GND-RIO- WGX-DWH | 12 | NLIGHT- (1) RPODB-2S-DX-WH- G2 (1) 3G WP WH (2) SB |
| 258 | Room 152 - gym office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Retrofit | 3 | PHILIPS-EVOKIT2X4-28W-40K-D | 3 | |
| 259 | Room 155A - gym storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 3 | ULT-248-12W-40K-DE | 3 | |
| 260 | Room 155B - gym storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 3 | ULT-248-12W-40K-DE | 3 | |
| 261 | Cafeteria hallway | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Retrofit | 5 | PHILLIPS-EVOKIT2X4-25W-40K | 5 | |
| 262 | Cafeteria hallway | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 8 | PHILLIPS-EVOKIT2X4-25W-40K | 8 | |
| 263 | Cafeteria hallway | 1L 40W LED Linear Board [1x LED DRIVER] | Do Nothing | 1 | PHILIPS-EVOKIT2X2-22W-40K-D | 1 | |
| 274 | Oil storage | 1L 23W CFS-M Triple tube [0x Null | Relamp | 2 | GC-16.5W-A21-40K-1L | 2 | |





Burnside Elementary / Interior - Mezzanine



| ID# | Room | Existing | Action | Existing Qty | Proposed | Proposed Qty | Control |
|-----|-------------------------|------------------------------------|----------|-----------------|--------------------|-----------------|---------|
| 264 | Room 200 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 5 | ULT-248-12W-40K-DE | 5 | |
| 265 | Room 200A - crawl space | 1L 60W INCS-M A19 [0x NULL] | Relamp | 1 | GC-9W-A19-40K-1L | 1 | |
| 266 | Room 201 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 10 | ULT-248-12W-40K-DE | 10 | |
| 267 | Room 201A | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 10 | ULT-248-12W-40K-DE | 10 | |
| 268 | Room 202 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 5 | ULT-248-12W-40K-DE | 5 | |
| 269 | Room 200B - crawl space | 1L 60W INCS-M A19 [0x NULL] | Relamp | 1 | GC-9W-A19-40K-1L | 1 | |
| 270 | Room 203 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Retrofit | 7 | ULT-248-12W-40K-DE | 7 | |



| PREPARED FOR: | | QUOTED BY: | | |
|---------------|----------------------------------|------------|----------------------------------|--|
| ACCOUNT | ISD #256 Red Wing Public Schools | TRC REP | Jake Andrist | |
| ADDRESS | ADDRESS 2451 Eagle Ridge Dr. | | jandrist@retrofitcompanies.com | |
| | Red Wing, MN 55066 | PHONE | (507) 363-0656 | |
| | | | The Retrofit Companies, Inc. | |
| ATTN | Alan Gaynor | | dba Retrofit Lighting and Design | |
| | | | 1010 Hoffman Drive Suite A | |
| | avgaylor@rwps.org | | Owatonna, MN 55060 | |
| DATE | 09/07/2021 | | RETROFITCOMPANIES.COM | |

Burnside Elementary - Fixture/Kit Option

| QTY | DESCRIPTION | UNIT PRICE | TOTAL |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| 1121 | Implement Customized Energy-Efficient Lighting Solutions utilizing the Cooperative Purchasing Connection (CPC) Contract: #20.6 - RLD - Lighting Audit and Solutions | | \$235,500.00 |
| | COOPERATIVE Purchasing CONNECTION | | |
| | Rebate payable to: Estimated Xcel Energy (CEE-One Stop) Rebate* | | \$20,232.61 |
| * For all i profile/m ** Visa | instances of PCB containing ballasts, generator must obtain EPA ID number and complete anifest paperwork to ensure proper off-site disposal upon completion of the project. & MasterCard are accepted and will be charged 3% for processing | | |

| This proposal is valid for 30 days* *Pricing is subject to change | Subtotal | \$215,267.39 |
|----------------------------------------------------------------------|-------------------------------|--------------|
| | Shipping & Handling Included | |
| Signature | Taxes n/a | |
| Title | TOTAL | \$215,267.39 |
| Date | | |
| | 1.5% FINANCE CHARGE APPLIED 1 | O ALL PAST |

Proposal Acknowledgement:

Your signature above, or PO for this proposal, indicates you have read and agree to the Terms and Conditions and Warranty information provided in the proposal.

Any changes in the above specifications shall be made in writing, and as evidence of agreement, shall be signed by both parties. TRC shall not be held responsible or liable for any loss, damage or delay due to causes beyond his control. If the purchaser disposes of the property by sale or otherwise before this contract has been

DUE ACCOUNTS


Terms and Conditions

Payment Terms: A down payment of 50% of the gross project value is due prior to project materials being ordered. The remaining balance is due upon project completion.

Incentives: The rebate figure provided is merely an estimate. Utilities reserve the right to adjust their rebate programs at any time, thus The Retrofit Companies, Inc. (TRC) will not be liable for unforseen adjustments to rebate programs and amounts.

Schedule Contingencies: Conditions or events beyond the control of TRC may jeopardize the proposed performance schedules. TRC shall not be responsible for delays in delivery beyond TRC's control. Examples of conditions or events beyond TRC's control include inability to access client's facility, extreme weather conditions, or force majeure.

Cancellation: Customer may choose to cancel prior to material shipment without additional restocking charge(s). Material orders that have been manufactured and/or shipped cannot be canceled and returned. All order cancellations must be in writing. All costs for warehousing and freight on orders canceled after shipment and/or refused at destination will be charged to the customer.

Maintenance of Material: Customer acknowledges and agrees that customer shall operate and maintain the material in accordance with the manufacturer's recommendations.

Publicity of Customer Participation: The customer grants TRC the right to use and reference, for promotional purposes, the customer's partnership with TRC.

Indemnification and Limitation of Company's Liability: Customer shall indemnify, defend and hold harmless TRC, its affiliates and their respective contractors, officers, directors, employees, agents, representatives from and against any and all claims, damages, losses and expenses, including reasonable attorneys' fees and costs incurred to enforce this indemnity, arising out of, resulting from, or related to the project or the performance of any services or other work in connection with the project's ("Damages"), caused or alleged to be caused in whole or in part by any actual or alleged act or omission of the customer, any subcontractor, agent, or third party, or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. To the fullest extent allowed by law, TRC's aggregate liability, regardless of the number of claims, shall be limited to paying approved incentives in accordance with these Terms and Conditions. TRC and its affiliates and their respective contractors, officers, directors, employees, agents, representatives shall not be liable to the customer or any other party for any other obligation. To the fullest extent allowed by law and as part of the consideration for participation in the project, the customer waives and releases TRC and its affiliates from all obligation, and for any liability or claim associated with the material, the performance of the material, or these Terms and Conditions.

Contractor Selection: Customer acknowledges that TRC reserves the right to select a vendor or contractor to install the materials and equipment at the customer's facility.

Removal of Equipment: The customer agrees to allow TRC to properly remove and dispose of, or recycle, the equipment, lamps and components in accordance with all applicable laws, and regulations and codes. The customer agrees not to reinstall any of removed equipment. Customer may be responsible for securing an EPA ID #, if they don't currently have one, in the instance of PCB ballast being found on-site.

Energy Benefits: Other than the energy cost savings projected to the customer, TRC is not held liable for unforeseen factors that could alter the projected savings outlined in this proposal.

ASHRAE or IECC Energy Codes: Unless explicitly stated otherwise on the quote page, all lighting projects developed by TRC do not comply with the ASHRAE or IECC energy codes. Adjustments to project pricing resulting from adhering to these codes, should the project be flagged during the electrical permitting process, are the sole responsibility of the customer.

PLEASE TAKE NOTICE:

(A) ANY PERSON OR COMPANY SUPPLYING LABOR OR MATERIALS FOR THIS IMPROVEMENT TO YOUR PROPERTY MAY FILE A LIEN AGAINST YOUR PROPERTY IF THAT PERSON OR COMPANY IS NOT PAID FOR THE CONTRIBUTIONS

(B) UNDER MINNESOTA LAW YOU HAVE THE RIGHT TO PAY PERSONS WHO SUPPLIED LABOR OR MATERIALS FOR THIS AMOUNT FROM OUR CONTRACT PRICE, OR WITHHOLD THE AMOUNTS DUE THEM FROM US UNTIL 120 DAYS AFTER COMPLETION OF THE IMPROVEMENT UNLESS WE GIVE YOU A LIEN WAIVER SIGNED BY PERSONS WHO SUPPLIED ANY LABOR OR MATERIAL FOR THE IMPROVEMENT AND WHO GAVE YOU TIMELY NOTICE.

(C) IF AT ANY TIME DURING INSTALLATION OR INSPECTION IT IS FOUND THAT THE FACILITY'S EXISTING ELECTRICAL DOES NOT MEET CURRENT CODE, THE RETROFIT COMPANIES, INC. IS NOT RESPONSIBLE FOR THE WORK REQUIRED TO BRING



Warranty

The Retrofit Companies, Inc. (TRC) warrants that its labor for all Turn-Key Retrofit projects is consistent with applicable industry standards. If you believe that TRC's labor did not comply with this warranty, then for a period of 30 days, TRC will have its laborers work with you to cure any alleged deficiencies in the labor performed pursuant to the parties' agreement. This limited warranty period starts upon substantial completion.

TRC's limited warranty is strictly limited, and only applies, to TRC's labor provided on the project. You understand that TRC's warranty does not cover, and TRC does not have any responsibility for, the design, manufacture, operation, maintenance, or performance of the products and equipment used in your project. The applicable manufacturers' warranties are owned by you, and you may pursue any warranty-related claims for the products with the manufacturers. Your TRC representative can, and will, help coordinate your warranty claims with the manufacturer as needed.

WHAT IS NOT INCLUDED IN THE WARRANTY

Labor and Equipment

TRC will leave your facility with lights and equipment in full working order. If products should fail, TRC will assist you in making a warranty claim to the manufacturer, free of charge. At your option, TRC will offer repair at our hourly rate, or offer to ship product to you for your own installation. If lifts or other specialty equipment is required to access the defective product, those fees will also be charged at the time of service.

Shipping and Delivery

TRC will invoice for shipping fees associated with return & delivery of replacement products.

LIMITATION OF DAMAGES

Regardless of the type of claim or damages, you agree that TRC's aggregate liability for all claims will not exceed the fee paid for our labor services or \$25,000, whichever is greater. If you are unwilling to accept this allocation of risk, we will increase our aggregate liability to \$50,000 provided that, within 10 days of the date of our Agreement, you provide payment in an amount that will increase our fees by 10%, but not less than \$500, to compensate us for the greater risk undertaken. This increased fee is not the purchase of insurance.

WARRANTY LIMITATIONS

THIS LIMITED WARRANTY CONSTITUTES THE SOLE WARRANTY MADE BY TRC, AND REPLACES ALL OTHER ORAL OR WRITTEN WARRANTIES, LIABILITIES OR OBLIGATIONS OF TRC. THE OBLIGATIONS CONTAINED IN THIS LIMITED WARRANTY CONSTITUTE THE EXCLUSIVE REMEDY AND ARE EXPRESSLY PROVIDED IN LIEU OF, AND REPLACE, ANY AND ALL OTHER OBLIGATIONS, GUARANTEES, AND WARRANTIES. THIS LIMITED WARRANY IS NON-TRANSFERABLE AND THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED WHICH EXTEND BEYOND THE FACE HEREOF, HEREIN, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. TRC'S OBLIGATIONS, RESPONSIBILITIES AND/OR LIABILITY SHALL BE LIMITED AS STATED ABOVE.

IN NO EVENT SHALL TRC BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING ECONOMIC LOSS AND DAMAGE TO ANY PERSONS OR PROPERTY.



Area Scope of Work

Exterior



| | Room | Details | | | | | | | | | |
|----|--------|--------------------------------------------------------------------------------|-------|------------|---------------------------------------------------|---------|-------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 1 | Door 1 | 1L 20W LED COB [1x LED DRIVER] / Recessed Can 6" Can Recessed | | Do Nothing | | | 9 | | | 2 | - |
| 2 | Door 1 | 1L 12W LEDS- M A19 [0x NULL] / Wall Mount * Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 14 | |
| 3 | Door 2 | 1L 12W LEDS- M A19 [0x NULL] / Wall Mount * Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 2 | |
| 4 | Door 3 | 1L 12W LEDS- M A19 [0x NULL] / Wall Mount * Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 2 | |
| 5 | WP 1 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 6 | WP 2 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 7 | WP 3 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 8 | WP 4 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 9 | WP 5 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 10 | WP 6 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 11 | Door 5 | 1L 70W HPS MED BASE HID [1x MAG] / Recessed Can 6" Can Recessed | | Retrofit | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | | 9 | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL (MFG: LITH) (Qty:1) | 1 | |
| 12 | Door 5 | 1L 12W LEDS- M A19 [0x NULL] / Wall Mount * Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 3 | |



| | Room | Details | | | | | | | | | |
|----|---------|------------------------------------------------------------------|-------|----------|---------------------------------------------------|---------|-------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 13 | WP 7 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 14 | WP 8 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 15 | WP 9 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 16 | WP 10 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 17 | WP 11 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 18 | WP 12 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 19 | WP 13 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 20 | WP 14 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 21 | WP 15 | MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 22 | Door 13 | MED BASE HID [1x MAG] / Recessed Can 6" Can Recessed | | Retrofit | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | | 9 | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL (MFG: LITH) (Qty:1) | 1 | |
| 23 | WP 16 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 24 | WP 17 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 25 | WP 18 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 26 | WP 19 | MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 27 | WP 20 | M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 28 | WP 21 | MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 29 | Door 15 | MED BASE HID [1x MAG] / Recessed Can 6" Can Recessed | | Retrofit | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | | 9 | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL (MFG: LITH) (Qty:1) | 1 | |
| 30 | Door 15 | 1L 12W LEDS- M A19 [0x NULL] / Wall Mount * Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 3 | |
| 31 | WP 22 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 32 | WP 23 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 33 | WP 24 | M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 34 | WP 25 | MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 35 | WP 26 | MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 36 | Door 17 | MED BASE HID [1x MAG] / Recessed Can 6" Can Recessed | | Retrofit | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | | 9 | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL (MFG: LITH) (Qty:1) | 1 | |
| 37 | WP 27 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 38 | WP 28 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 39 | WP 29 | 1L 100W HPS MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 40 | WP 29 | 1L 12W LEDS- M A19 [0x | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 2 | |



| | Room | Details | | | | | | | | | |
|----|-------------|--------------------------------------------------------------------------------|-------|------------|---------------------------------------------------|---------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| | | NULL] / Wall Mount * Wall | | | | | | Dimmable - 60W Halogen Equivalent | | | |
| 41 | WP 30 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 42 | WP 31 | MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 43 | WP 31 | 1L 12W LEDS- M A19 [0x NULL] / Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 2 | |
| 44 | WP 32 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 45 | WP 33 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 46 | WP 34 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 47 | WP 35 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 48 | WP 36 | MED BASE HID [1x MAG] / Wallpack Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 49 | Door 20 | 1L 70W HPS MED BASE HID [1x MAG] / Recessed Can 6" Can Recessed | | Retrofit | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | | 9 | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL (MFG: LITH) (Qty:1) | 1 | |
| 50 | FL 1 | 1L 63W LED Array [1x LED DRIVER] / Flood Wall | | Do Nothing | | | 14 | | | 1 | - |
| 51 | WP 37 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 52 | WP 38 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 53 | WP 39 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 54 | Door 21 | 1L 70W HPS MED BASE HID [1x MAG] / Recessed Can 6" Can Recessed | | Retrofit | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | | 9 | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL (MFG: LITH) (Qty:1) | 1 | |
| 55 | Door 21 | 1L 12W LEDS- M A19 [0x NULL] / Wall Mount * Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 3 | |
| 56 | WP 40 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 57 | WP 41 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 58 | WP 42 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 59 | WP 43 | 1L 22W LEDS- M COB [0x edit / Wallpack * Wall | | Replace | CREE-XSPW-40W- 50K-T4-DB | | 14 | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | XSPW-B-WM-4ME-4L-50K- UL-BZ (MFG: CREE) (Qty:1) | 1 | |
| 60 | Door 22 | MED BASE HID [1x MAG] / Recessed Can 6" Can Recessed | | Retrofit | LITHONIA-LBR6- 13W-50K-MWD- MVOLT-UGZ-AT-WL | | 9 | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | LBR6 10LM 50K AR LSS MWD MVOLT UGZ AT WL (MFG: LITH) (Qty:1) | 1 | |
| 61 | Door 22 | 1L 12W LEDS- M A19 [0x NULL] / Wall Mount * Wall | | Relamp | KEYSTONE-9.5W- A19-50K-1L | | 7 | Relamp Fixture Using (1) 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | KT-LED9.5A19-O-850 (MFG: KEY) (Qty:1) | 10 | |
| 62 | Flag Pole 1 | 1L 16W LED COB [1x LED DRIVER] / Flood Wall | | Do Nothing | | | 11 | | | 1 | - |
| 63 | Pole 1 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | | 25 | 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 64 | Pole 2 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | | 25 | 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 65 | Pole 3 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | | 25 | 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 66 | Pole 4 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | | 25 | 18/W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 67 | Pole 5 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | | 25 | 210W RSX2 LED Area Light, Type 5 Wide Optics, 5000K, Dark Bronze Finish, 120-277V - Includes Square Pole Mounting | RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |





| | Room | Details | | | | | | | | | |
|-----|---------|--------------------------------------------------------------|-------|------------|---------------------------------------------------|---------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 67 | Pole 5 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | | | 25 | Remove Fixtures | | 1 | |
| 68 | Pole 6 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 147W-50K-R2- MVOLT-SPA-DDBXD | | 25 | 147W RSX2 LED Area Light, Type 2 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P3 50K R2 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 69 | Pole 7 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 147W-50K-R2- MVOLT-SPA-DDBXD | | 25 | 147W RSX2 LED Area Light, Type 2 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P3 50K R2 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 70 | Pole 8 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | | 25 | 210W RSX2 LED Area Light, Type 5 Wide Optics, 5000K, Dark Bronze Finish, 120-277V - Includes Square Pole Mounting | RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 70 | Pole 8 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | | | 25 | Remove Fixtures | | 1 | |
| 71 | Pole 9 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | | 25 | 210W RSX2 LED Area Light, Type 5 Wide Optics, 5000K, Dark Bronze Finish, 120-277V - Includes Square Pole Mounting | RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 71 | Pole 9 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | | | 25 | Remove Fixtures | | 1 | |
| 72 | Pole 10 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 210W-50K-R5- MVOLT-SPA-DDBXD | | 25 | 210W RSX2 LED Area Light, Type 5 Wide Optics, 5000K, Dark Bronze Finish, 120-277V - Includes Square Pole Mounting | RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 72 | Pole 10 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | | | 25 | Remove Fixtures | | 1 | |
| 73 | Pole 11 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | | 25 | 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 74 | Pole 11 | 1L 100W LED COB [1x LED DRIVER] / Flood Yolk | | Do Nothing | | | 25 | | | 1 | - |
| 75 | Pole 12 | 1L 400W HPS MOG BASE HID [1x MAG] / Pole Light Pole | | Replace | LITHONIA-RSX2- 187W-50K-R4- MVOLT-SPA-DDBXD | | 26 | 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) (Qty:1) | 1 | |
| 76 | Pole 12 | 1L 100W LED COB [1x LED DRIVER] / Flood Yolk | | Do Nothing | | | 25 | | | 1 | - |
| 271 | FL 1 | 1L 44W LED COB [1x LED DRIVER] / Flood Knuckle | | Do Nothing | | | | | | 1 | - |
| 272 | FL 2 | 1L 44W LED COB [1x LED DRIVER] / Flood Knuckle | | Do Nothing | | | | | | 1 | - |





| Into | rior |
|------|------|
| IIIC | |
| | |

| | Room | Details | | | | | | | | | |
|----|------------------------------------|------------------------------------------------------------------------------|-------|------------|-------------------------------------|---------|-------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 77 | Door 1 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 3 | - |
| 78 | Lobby | 2L 25W LF4 T8 [1x ELE T8 DIM NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 79 | Lobby | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 7 | |
| 80 | Lobby | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 5 | - |
| 81 | Lobby | 2L 25W LF4 T8 [1x ELE T8 DIM NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 17 | |
| 82 | Lobby | 1L 20W LED COB [1x LED DRIVER] / Recessed Can 6" Can Recessed | | Do Nothing | | | 9 | | | 3 | - |
| 83 | Trophy Case | 2L 25W LF4 T8 [1x ELE T8 DIM NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 10 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 4 | |
| 85 | Room 100 - Main Office | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Parabolic Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 6 | |
| 86 | Room 100 - Main Office | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 2 | - |
| 87 | Room 101 - Principals Office | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Parabolic Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 4 | |



| | Room | Details | | | | | | | | | |
|-----|------------------------------------------|-----------------------------------------------------------------------------------|-------|------------|--------------------------------------|---------------------|-------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 88 | Room 102 - Health Services | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Parabolic Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 89 | Room 102 - Health Services | 2L 60W INCS-M A19 [0x NULL] / Vanity Wall | | Relamp | GC-VS-9W-A19-40K- 2L | | 8 | Relamp Fixture w/ (2) x 9W LED Value Select A19 E26 4000K Dimmable - 60W Incandescent Equivalent | 9A19DIM/840/R (MFG: GC) (Qty:2) | 2 | |
| 90 | Room 102 - Health Services | 2L 13W CFS-M SPIRAL [0x NULL] / Vanity Wall | | Relamp | GC-VS-9W-A19-40K- 2L | | 8 | Relamp Fixture w/ (2) x 9W LED Value Select A19 E26 4000K Dimmable - 60W Incandescent Equivalent | 9A19DIM/840/R (MFG: GC) (Qty:2) | 1 | |
| 91 | Room 102 - Health Services | 1L 40W LED Linear Board [1x LED DRIVER] / Lensed Troffer 2x2 Recessed | | Do Nothing | | | 9 | | | 1 | - |
| 92 | Room 102A - health services office | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Parabolic Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 93 | Health Services Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 94 | Room 103 | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Parabolic Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 4 | |
| 95 | Restroom 1 | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 96 | Restroom 2 | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 97 | Room 104 - breakroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 4 | |
| 98 | Room 104 - breakroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 15 | - |
| 99 | Room 104A - copy room | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Parabolic Troffer 2x4 Recessed | | Retrofit | PHILIPS-EVOKIT2x4- 19W-40K-HE | | 9 | 19W 2x4 HE Retrofit Kit, 4000K | Evokit HE 2x4 30L 19W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 9 | |
| 100 | Room 104B - Server Room | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 101 | Room 105 - Wellness Room | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Parabolic Troffer 2x4 Recessed | | Retrofit | ESI-F24LX-38W- RGBW | ENOCEAN- ESRPB-W | 9 | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul LED, RGBW, Frosted Lens, Casambi Wireless Control | F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) (Qty:1) | 4 | |
| 102 | Door 22 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 1 | - |
| 103 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 35 | |
| 104 | A Wing Hallway B | 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] / Decorative 9" Wall | | Do Nothing | | | 9 | 5.5W LED Hybrid PLS GX23 4000K - 13W CFL Equivalent | | 4 | - |
| 105 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 10 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 106 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 107 | A Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Ketrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 6 | |
| 108 | Room 106 - Student Services | JL 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 109 | Room 107 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 110 | Room 108 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | ULT-348-12W-40K- DE | | 9 | Retrofit Fixture w/ (3) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:3) | 2 | |
| 111 | Room 109 - Student | 3L 25W LF4 T8 [1x ELE T8 IS NP1 / Lensed | | Retrofit | ULT-348-12W-40K- DE | | 9 | Retrofit Fixture w/ (3) x 12W 4' LED Type 'B' Double- | T8LACD4F12/840B25EC (MFG: ULT) (Qty:3) | 2 | |



| | Room I | Details | | | | | | | | | |
|-----|-------------------------|---------------------------------------------------------------------------|-------|------------|--------------------------------------|---------------------|-------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| | | Troffer 2x4 Recessed | | | | | | Ended T8 Lamps 4000K - | | | |
| 112 | Room 110 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 113 | Room 111 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 12 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 114 | Room 111 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 12 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 115 | Room 111 - classroom | 1L 150W INCS- M PAR38 [0x NULL] / Track 6" Can Surface | | Relamp | GC-17W-PAR38-40K- 1L-277V | | 12 | Relamp Fixture w/ (1) x 17W LED PAR38 4000K (277V) - 75W Halogen Equivalent | 15.5PAR38DIM/940FL40 (MFG: GC) (Qty:1) | 6 | |
| 116 | Room 111A | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 117 | Room 112 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 118 | Room 113 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 119 | Room 114 - Supplies | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 120 | Room 115 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 121 | Door 21 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 2 | - |
| 122 | Room 116 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 123 | Room 117 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 124 | Room 118 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 125 | Door 20 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 1 | - |
| 126 | Room 119 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 127 | Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 4 | |
| 128 | Boys Restroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 4 | - |
| 129 | Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 4 | |
| 130 | Girls Restroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 4 | - |
| 131 | Room 120 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 132 | Room 124 | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 1 | |
| 133 | Room 121 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 134 | Room 122 - Student | 3L 25W LF4 T8 [1x ELE T8 IS NP1 / Lensed | | Retrofit | ESI-F24LX-38W- RGBW | ENOCEAN- ESRPB-W | 9 | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul | F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) (Qty:1) | 2 | |



| | Room I | Details | | | | | | | | | |
|-----|-----------------------------------|--------------------------------------------------------------------------------------------|-------|------------|--------------------------------------------|---------------------|-------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| | | Troffer 2x4 Recessed | | | | | | LED, RGBW, Frosted Lens, Casambi Wireless Control | | | |
| 135 | Room 123 - student services | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 136 | Room 124 | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Square 13?x13x Recessed | | Retrofit | GC-9W-PLO-40K-2L | | 9 | Retrofit Fixture w/ (2) 9W LED Hybrid PLO G24q & GX24q (4-pin) Based Type B 40K - 26W CFL Equivalent | 9PLO/840/HYBM (MFG: GC) (Qty:2) | 1 | |
| 137 | Room 125 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 138 | Room 126 - Conference Room | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 139 | Room 127 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | ESI-F24LX-38W- RGBW | ENOCEAN- ESRPB-W | 9 | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul LED, RGBW, Frosted Lens, Casambi Wireless Control | F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) (Qty:1) | 14 | |
| 140 | Room 127A | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 141 | Room 128 | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 142 | Room 129 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | ESI-F24LX-38W- RGBW | ENOCEAN- ESRPB-W | 9 | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul LED, RGBW, Frosted Lens, Casambi Wireless Control | F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) (Qty:1) | 14 | |
| 143 | Women?s Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 2 | |
| 144 | Women?s Restroom | Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 3 | - |
| 145 | Women?s Restroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | | | | 1 | - |
| 146 | Supply Room | 1L 30W LED Linear Board [1x LED DRIVER] / Standard Strip 4' Wall | | Do Nothing | | | 9 | | | 1 | - |
| 147 | Mens Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 2 | |
| 148 | Mens Restroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 4 | - |
| 149 | Room 130 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | ESI-F24LX-38W- RGBW | ENOCEAN- ESRPB-W | 9 | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul LED, RGBW, Frosted Lens, Casambi Wireless Control | F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) (Qty:1) | 16 | |
| 150 | Room 130 - classroom | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Can 8" Recessed | | Retrofit | LITHONIA-LBR8-9W- 40K-MWD-MVOLT- UGZ | | 9 | 9W LBR8 8" Recessed Can, 832 Nominal Lumens in 40K, Medium Distribution | LBR8 07LM 40K AR LSS MWD MVOLT UGZ (MFG: LITH) (Qty:1) | 1 | |
| 151 | A Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 7 | |
| 152 | A Wing Hallway A | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 8 | | | 2 | - |
| 153 | A Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 14 | |
| 154 | A Wing Hallway A | 2L 25W LF3 T8 [1x ELE T8 IS NP] / Standard Strip 3' Surface | | Retrofit | ULT-236-12W-40-DE | | 9 | Retrofit Fixture w/ (2) 12W 3' LED Type 'B' Double- Ended T8 Lamps 4000K | T8LACD3F12/840B25EC (MFG: ULT) (Qty:2) | 2 | |
| 155 | Media Center | 2L 25W LF4 18 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 31 | |
| 156 | Media Center | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 8 | | | 27 | - |
| 157 | Media Center | 2L 25W LF4 T8 [1x ELE T8 IS | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 4 | |



| | Room | Details | | | | | | | | | |
|-----|---------------------------------------|---------------------------------------------------------------------------|-------|------------|--------------------------------------|---------|-------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| | | NP] / Standard Strip 4' Surface | | | | | | Ended T8 Lamps 4000K - 1,800 Nominal Lumens | | | |
| 158 | Media Center | 2L 25W LF3 T8 [1x ELE T8 IS NP] / Standard Strip 3' Surface | | Retrofit | ULT-236-12W-40-DE | | 9 | Retrofit Fixture w/ (2) 12W 3' LED Type 'B' Double- Ended T8 Lamps 4000K | T8LACD3F12/840B25EC (MFG: ULT) (Qty:2) | 2 | |
| 159 | Media Center | 2L 17W LF2 T8 [1x ELE T8 IS NP] / Standard Strip 2' Surface | | Retrofit | ULT-224-9W-40K-DE | | 10 | Retrofit Fixture w/ (2) x 9W 2' LED Type 'B' Double- Ended T8 Lamps 4000K | T8LACD2F9/840B25EC (MFG: ULT) (Qty:2) | 1 | |
| 160 | Room 131A - Media Center Office | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 161 | Room 131B - Copy Room | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 162 | Room 132 | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 6 | |
| 163 | Room 132A | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 4 | |
| 164 | Room 132A | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 3 | - |
| 165 | Room 133 | 10L 25W LF4 T8 [3x ELE T8 IS NP] / Indirect 20? Suspended | | Retrofit | Lithonia-LBK 4FT 1 3000 40K (5) | | 10 | (5) 19.5W 4ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) (Qty:5) | 1 | |
| 167 | Room 133 | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Indirect 4' Wall | | Retrofit | Lithonia-LBK 4FT 1 3000 40K | | 9 | 19.5W 4ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) (Qty:1) | 2 | |
| 168 | Room 133 | 2L 25W LF3 T8 [1x ELE T8 IS NP] / Indirect 3' Wall | | Retrofit | Lithonia-LBK 3FT 1 2000 40K | | 9 | 13.5W 3ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBK 3FT 1 2000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) (Qty:1) | 5 | |
| 169 | Room 136 | 10L 25W LF4 T8 [3x ELE T8 IS NP] / Indirect 20? Suspended | | Retrofit | Lithonia-LBK 4FT 1 3000 40K (5) | | 10 | (5) 19.5W 4ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) (Qty:5) | 1 | |
| 170 | Room 136 | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Indirect 4' Wall | | Retrofit | Lithonia-LBK 4FT 1 3000 40K | | 9 | 19.5W 4ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) (Qty:1) | 15 | |
| 171 | Room 136 | 2L 25W LF3 T8 [1x ELE T8 IS NP] / Indirect 3' Wall | | Retrofit | Lithonia-LBK 3FT 1 2000 40K | | 9 | 13.5W 3ft Light Bar Retrofit Kit - 4000K, 1 Bar | LBK 3FT 1 2000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) (Qty:1) | 5 | |
| 172 | Room 135 | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 5 | |
| 173 | B Wing Hallway A | [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 7 | |
| 174 | B Wing Hallway A | 2L 17W LF2 T8 [1x ELE T8 IS NP] / Standard Strip 2' Surface | | Do Nothing | | | 8 | | | 1 | - |
| 175 | B Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 16 | |
| 176 | B Wing Hallway A | 2L 25W LF3 T8 [1x ELE T8 IS NP] / Standard Strip 3' Surface | | Retrofit | ULT-236-12W-40-DE | | 9 | Retrofit Fixture w/ (2) 12W 3' LED Type 'B' Double- Ended T8 Lamps 4000K | T8LACD3F12/840B25EC (MFG: ULT) (Qty:2) | 1 | |
| 177 | Room 134 - Classroom | 3L 25W LF4 18 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 6 | |
| 178 | Room 137 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 15 | |
| 179 | Room 137A | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 180 | Room 137B | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 181 | Room 137C | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 182 | Room 138/139 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 5 | |



| | Room | Details | | | | | | | | | |
|-----|-------------------------|-----------------------------------------------------------------------------|-------|------------|--------------------------------------|---------------------|-------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 183 | Door 17 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 1 | - |
| 184 | B Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 26 | |
| 185 | B Wing Hallway B | 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] / Decorative 9" Wall | | Relamp | GC-5.5W-PLS-40K- 2L | | 8 | 5.5W LED Hybrid PLS GX23 4000K - 13W CFL Equivalent | 5.5PLS/840/HYB/GX23 (MFG: GC) (Qty:2) | 2 | |
| 186 | B Wing Hallway B | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 5 | |
| 187 | B Wing Hallway B | 2L 25W LF3 T8 [1x ELE T8 IS NP] / Standard Strip 3' Surface | | Retrofit | ULT-236-12W-40-DE | | 10 | Retrofit Fixture w/ (2) 12W 3' LED Type 'B' Double- Ended T8 Lamps 4000K | T8LACD3F12/840B25EC (MFG: ULT) (Qty:2) | 2 | |
| 188 | Room 140 | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 189 | Room 141 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | ESI-F24LX-38W- RGBW | ENOCEAN- ESRPB-W | 12 | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul LED, RGBW, Frosted Lens, Casambi Wireless Control | F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) (Qty:1) | 8 | |
| 190 | Room 141 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 12 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 191 | Room 141A | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 192 | Room 142 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 193 | Server Room | 4L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 8' Surface | | Retrofit | ULT-448-12W-40K- DE | | 9 | Retrofit Fixture w/ (4) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:4) | 1 | |
| 194 | Room 143 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 195 | Room 144 | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 196 | Room 145 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 197 | Door 15 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 2 | - |
| 198 | Room 146 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 199 | Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 200 | Boys Restroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 3 | - |
| 201 | Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 202 | Girls Restroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 3 | - |
| 203 | Room 147 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 204 | Room 148 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 205 | Door 14 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 2 | - |



| | Room | Details | | | | | | | | | |
|-----|---------------------------|----------------------------------------------------------------------------------|-------|------------|--------------------------------------|---------|-------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 206 | Room 149 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 207 | Room 150 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 12 | |
| 208 | C Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 15 | |
| 209 | C Wing Hallway A | 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] / Decorative 9" Wall | | Relamp | GC-5.5W-PLS-40K- 2L | | 8 | 5.5W LED Hybrid PLS GX23 4000K - 13W CFL Equivalent | 5.5PLS/840/HYB/GX23 (MFG: GC) (Qty:2) | 2 | |
| 210 | C Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 211 | Door 13 vestibule | Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 2 | - |
| 212 | Room 156 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 15 | |
| 213 | Room 156B | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 214 | Room 156B | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 215 | Room 156C | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 216 | Room 170 - Supply Room | 1L 30W LED Linear Board [1x LED DRIVER] / Standard Strip 4' Wall | | Do Nothing | | | 9 | | | 1 | - |
| 217 | Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 4 | |
| 218 | Boys Restroom | Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 3 | - |
| 219 | Boys showers | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Can 13? Recessed | | Retrofit | GC-9W-PLO-40K-2L | | 9 | Retrofit Fixture w/ (2) 9W LED Hybrid PLO G24q & GX24q (4-pin) Based Type B 40K - 26W CFL Equivalent | 9PLO/840/HYBM (MFG: GC) (Qty:2) | 2 | |
| 220 | Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 221 | Girls Restroom | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 3 | - |
| 222 | Girls Showers | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] / Recessed Can 13? Recessed | | Retrofit | GC-9W-PLO-40K-2L | | 9 | Retrofit Fixture w/ (2) 9W LED Hybrid PLO G24q & GX24q (4-pin) Based Type B 40K - 26W CFL Equivalent | 9PLO/840/HYBM (MFG: GC) (Qty:2) | 2 | |
| 223 | Room 157 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 15 | |
| 224 | Room 157A | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 225 | Room 157 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 226 | Room 158 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 15 | |
| 227 | Room 158A | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 228 | Room 158 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |



| | Room I | Details | | | | | | | | | |
|-----|----------------------------|-----------------------------------------------------------------------------|-------|------------|--------------------------------------|---------|-------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 229 | Room 160 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 17 | |
| 230 | Room 160A | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 231 | Room 160B | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 232 | Room 160 -Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 233 | Room 160D | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 234 | Room 160E | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 235 | Room 163A - Receiving | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Chain/Cable | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 16 | |
| 236 | Room 161B - Maintenance | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 237 | Room 163B - Boiler | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Chain/Cable | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 12 | |
| 238 | Room 163C - Garage | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 2 | |
| 239 | Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 240 | Freezer | 2L 15W LL4A T8 [1x ELE T8 IS NP] / Vaportight 4' Surface | | Do Nothing | | | 8 | 24W LED 4' Vaportight - 4000K, wide distribution, polycarbonate low profile frosted lens, 0-10V Dimming | | 1 | - |
| 241 | Refrigerator | 2L 15W LL4A T8 [1x ELE T8 IS NP] / Vaportight 4' Surface | | Do Nothing | | | 8 | 24W LED 4' Vaportight - 4000K, wide distribution, polycarbonate low profile frosted lens, 0-10V Dimming | | 1 | - |
| 242 | Room 162 - Kitchen | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 17 | |
| 243 | Room 162A | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 244 | Room 162B - Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Wrap 4' Surface | | Retrofit | LITHONIA-STL4- 27W-40K | | 9 | 27W LED Surface Mount Volumetric Fixture 4000K | STL4-30L-EZ1-LP840 (MFG: LITH) (Qty:1) | 1 | |
| 245 | Room 162E - Storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 246 | Room 154 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 12 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 36 | |
| 247 | Room 159 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-SD | | 12 | 28W 2x4 LED Troffer Retrofit Kit, 4000K, 4200 Nominal Lumens, and Step- Dimming Driver | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) (Qty:1) | 10 | |
| 248 | Room 159C - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 249 | Room 159B - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 250 | Room 159A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 1 | |
| 251 | Room 154A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |



| | Room | Details | | | | | | | | | |
|-----|--------------------------------------|-----------------------------------------------------------------------------------|-------|------------|---------------------------------------------------|----------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 252 | Music Room Hallway | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 253 | Room 153C - Music Room Storage | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Surface | | Retrofit | ESI-K-24LT-F4N0-2S- 40-FR-D | | 9 | 30 W LED 2x4 lensed troffer retrofit kit, 4425 initial lumens, 4000K color temp, with frosted lens, Dimming | K-24LT-F4N0-2S-40-FR-D (MFG: ESI) (Qty:1) | 4 | |
| 254 | Room 153B | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 2 | |
| 255 | Room 153 - Music Room | 3L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Surface | | Retrofit | ESI-K-24LT-F4N6-2S- 40-FR-SD | | 9 | 36W LED 2x4 lensed troffer retrofit kit, 5298 initial lumens, 4000K color temp, with frosted lens, Step Dimming | K-24LT-F4N6-2S-40-FR-SD (MFG: ESI) (Qty:1) | 15 | |
| 256 | Room 151B - Gym | 6L 25W LF4 T8 [2x ELE T8 IS NP] / Highbay 1x8 Surface | | Retrofit | LITHONIA-IBG- 105W-50K-AFL-GND- RIO-WGX-DWH | NLIGHT- (1) RPODB-2S- DX-WH-G2 (1) 3G WP WH (2) SB | 26 | 105W IBG LED High Bay Fixture, 5000K, 18000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device | IBAC120-M100 (MFG: LITH) (Qty:1), IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI NLTAIR2 RIO WGX DWH (MFG: LITH) (Qty:1) | 12 | |
| 257 | Room 151A - Gym | 6L 25W LF4 T8 [2x ELE T8 IS NP] / Highbay 1x8 Surface | | Retrofit | LITHONIA-IBG- 105W-50K-AFL-GND- RIO-WGX-DWH | NLIGHT- (1) RPODB-2S- DX-WH-G2 (1) 3G WP WH (2) SB | 26 | 105W IBG LED High Bay Fixture, 5000K, 18000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device | IBAC120-M100 (MFG: LITH) (Cty:1), IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI NLTAIR2 RIO WGX DWH (MFG: LITH) (Qty:1) | 12 | |
| 258 | Room 152 - gym office | 3L 25W LF4 T8 [2x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILIPS- EVOKIT2X4-28W- 40K-D | | 9 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0- 10V Dimming Driver | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 3 | |
| 259 | Room 155A - gym storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 10 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 260 | Room 155B - gym storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 10 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 3 | |
| 261 | Cafeteria hallway | 2L 25W LF4 T8 [1x ELE T8 DIM NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 5 | |
| 262 | Cafeteria hallway | 2L 25W LF4 T8 [1x ELE T8 IS NP] / Lensed Troffer 2x4 Recessed | | Retrofit | PHILLIPS- EVOKIT2X4-25W- 40K | | 9 | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) (Qty:1) | 8 | |
| 263 | Cafeteria hallway | 1L 40W LED Linear Board [1x LED DRIVER] / Lensed Troffer 2x2 Recessed | | Do Nothing | | | 9 | 22W 2x2 LED Troffer Retrofit Kit, 3100 Lumens, 4000K | | 1 | - |
| 273 | Door 5 vestibule | 1L 20W LED Array [1x LED DRIVER] / Canopy 10" x 10" Surface | | Do Nothing | | | 9 | | | 1 | - |
| 274 | Oil storage | 1L 23W CFS-M Triple tube [0x Null / Jelly Jar Surface | | Relamp | GC-17W-A21-40K-1L | | 7 | Relamp Fixture w/ (1) x 17W LED A21 Lamp 4000K - 125W Incandescent Equivalent | 17A21/840/277V/DIM (MFG: GC) (Qty:1) | 2 | |





| Interior - Mezzanin |
|---------------------|
|---------------------|

| | Room | Details | | | | | | | | | |
|-----|----------------------------|----------------------------------------------------------------------|-------|----------|-------------------------|---------|-------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----|-----------|
| ID | Room | Existing | Notes | Action | Proposed | Control | Fixture Height | Scope of Work | Material Item Code | Qty | Completed |
| 264 | Room 200 | 2L 32W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 5 | |
| 265 | Room 200A - crawl space | 1L 60W INCS-M A19 [0x NULL] / Porcelain Socket Wall | | Relamp | GC-VS-9W-A19-40K- 1L | | 5 | Relamp Fixture w/ (1) x 9W LED Value Select A19 E26 4000K Dimmable - 60W Incandescent Equivalent | 9A19DIM/840/R (MFG: GC) (Qty:1) | 1 | |
| 266 | Room 201 | 2L 32W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 10 | |
| 267 | Room 201A | 2L 32W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 10 | |
| 268 | Room 202 | 2L 32W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 5 | |
| 269 | Room 200B - crawl space | 1L 60W INCS-M A19 [0x NULL] / Porcelain Socket Wall | | Relamp | GC-VS-9W-A19-40K- 1L | | 5 | Relamp Fixture w/ (1) x 9W LED Value Select A19 E26 4000K Dimmable - 60W Incandescent Equivalent | 9A19DIM/840/R (MFG: GC) (Qty:1) | 1 | |
| 270 | Room 203 | 2L 32W LF4 T8 [1x ELE T8 IS NP] / Standard Strip 4' Surface | | Retrofit | ULT-248-12W-40K- DE | | 9 | Retrofit Fixture w/ (2) x 12W 4' LED Type 'B' Double- Ended T8 Lamps 4000K - 1,800 Nominal Lumens | T8LACD4F12/840B25EC (MFG: ULT) (Qty:2) | 7 | |

L

Material Checklist

Items

| Item # | Description | Qty Required I | Qty Received | Notes |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|-------|
| SENERIC-TRC | | | | |
| 026-W WLPLT BLNK INSRT DECO 1G WHT SCR | Decora switch blank, white | 4 | | |
| GREEN CREATIVE | | | | |
| 5.5PLS/840/HYB/GX23 | 5.5W LED Hybrid PLS GX23 4000K - 13W CFL Equivalent | 16 | | |
| JPLO/840/HYBM | 9W LED Hybrid PLO G24q & GX24q (4-pin) Based 40K - 26W CFL Equivalent | 10 | | |
| 15.5PAR38DIM/940FL40 | 15.5W LED PAR38 E26 4000K Dimmable 90CRI - 120W Halogen Equivalent | 9 | | |
| A19DIM/840/R | 9W LED A19 E26 4000K Dimmable - 60W Incandescent Equivalent | 8 | | |
| 17A21/840/277V/DIM | 17W LED A21 E26 4000K Dimmable - 125W Incandescent Equivalent | 2 | | |
| ithonia Lighting | | | | |
| STL4-30L-EZ1-LP840 | 27W LED Surface Mount Volumetric Fixture 4000K | 6 | | |
| BAC120-M100 | Aircraft Cable 10' With Hook (one pair) | 24 | | |
| RPODB 2S DX WH G2 | nLight Air Battery Powered Preset Scene Wall Switch White Finish - Two Preset Scene Control + Single Zone On/Off/Raise/Lower Control | 7 | | |
| BG 18000LM SEF AFL GND MVOLT 3210 50K 80CRI NLTAIR2 RIO WGX)WH | 105W IBG LED High Bay Fixture, 5000K, 18000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device | 24 | | |
| EMSMB | Surface Mount Bracket (Pair) | 2 | | |
| .BR8 07LM 40K AR LSS MWD MVOLT JGZ | 9W LBR8 8" Recessed Can, 832 Nominal Lumens in 40K, Medium Distribution | ~ | | |
| FEM L48 4000LM LPPFL WD MVOLT 3210 40K 80CRI STSL | 24W LED 4' Vaportight - 4000K, wide distribution, polycarbonate low profile frosted lens, 0-10V Dimming | 5 | | |
| -BR6 10LM 50K AR LSS MWD MVOLT JGZ AT WL | 13W LBR6 6" Recessed Can, 1454 nominal lumens 5000K Air Tight, Wet Rated. | 7 | | |

| LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT | 19.5W 4ft Light Bar Retrofit Kit - 4000K, 1 Bar | 27 |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|
| LBK 3FT 1 2000LMHE 80CRI 40K MIN10 ZT MVOLT | 13.5W 3ft Light Bar Retrofit Kit - 4000K, 1 Bar | 10 |
| RSX2 LED P4 50K R4 MVOLT SPA DDBXD | 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish Finish, 120- 277V - Includes Square Pole Mounting | 9 |
| RSX2 LED P5 50K R5 MVOLT SPA DDBXD | 210W RSX2 LED Area Light, Type 5 Wide Optics, 5000K, Dark Bronze Finish, 120- 277V - Includes Square Pole Mounting | 4 |
| RSX2 LED P3 50K R2 MVOLT SPA DDBXD | 147W RSX2 LED Area Light, Type 2 Optics, 5000K, Dark Bronze Finish, 120-277V - Includes Square Pole Mounting | 2 |
| ESI | | |
| K-24LT-F4N0-2S-40-FR-D | 30W LED 2x4 lensed troffer retrofit kit, 4425 initial lumens, 4000K color temp, with frosted lens, Dimming | 4 |
| K-24LT-F4N6-2S-40-FR-SD | 36W LED 2x4 lensed troffer retrofit kit, 5298 initial lumens, 4000K color temp, with frosted lens and 30/50/100 Step Dimming Driver | 15 |
| F-24LX-L4H-RGBW-FR-CAS | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul LED, RGBW, Frosted Lens, Casambi Wireless Control | 58 |
| Universal Lighting Technologies | | |
| T8LACD3F12/840B25EC | 12W 3' LED Type B T8 Lamp 4000K | 14 |
| T8LACD4F12/840B25EC | 12W 4' LED Type B T8 Lamp 4000K | 364 |
| T8LACD2F9/840B25EC | 9W 2' LED Type B T8 Lamp 4000K | 2 |
| Keystone Technologies | | |
| KT-LED9.5A19-O-850 | 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | 41 |
| EnOcean | | |
| ESRPB-W | Wireless Single Rocker Switch - BLE | 9 |
| Cree Lighting | | |
| XSPW-B-WM-4ME-4L-50K-UL-BZ | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | 43 |
| P&S | | |
| SSJ263 | 3 Gang Decorator Steel Wall Plate | 2 |
| Philips | | |
| EvoKit 2x4 42L 28W 840 UNV 0-10 G5 | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0-10V Dimming Driver | 168 |
| EvoKit HE 2x4 42L 28W 840 UNV STEP G5 | 28W 2x4 LED Troffer Retrofit Kit, 4200 Lumens, 4000K with Step Dimming Driver | 375 |

| Additional Materials | | | |
|---------------------------------|-----------------------------------------------------------------------------|------------------------------|------|
| Item # | Description | Qty Qty Required Received | otes |
| GREEN CREATIVE | | | |
| 5.5PLS/840/HYB/GX23 | 5.5W LED Hybrid PLS GX23 4000K - 13W CFL Equivalent | 2 | |
| 9PLO/840/HYBM | 9W LED Hybrid PLO G24q & GX24q (4-pin) Based 40K - 26W CFL Equivalent | Я | |
| 15.5PAR38DIM/940FL40 | 15.5W LED PAR38 E26 4000K Dimmable 90CRI - 120W Halogen Equivalent | - | |
| 9A19DIM/840/R | 9W LED A19 E26 4000K Dimmable - 60W Incandescent Equivalent | 4 | |
| 17A21/840/277V/DIM | 17W LED A21 E26 4000K Dimmable - 125W Incandescent Equivalent | 4 | |
| Universal Lighting Technologies | | | |
| T8LACD3F12/840B25EC | 12W 3' LED Type B T8 Lamp 4000K | 11 | |
| T8LACD4F12/840B25EC | 12W 4' LED Type B T8 Lamp 4000K | 11 | |
| Keystone Technologies | | | |
| KT-LED9.5A19-O-850 | 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | 5 | |
| GENERIC (Proposed) | | | |
| RGBW CONTROL STATION | Armodilo Keyo Wallstation and iPad - Use with Casambi RGBW Lighting Package | Q | |

22W 2x2 LED Troffer Retrofit Kit, 4,000K, 3,100 Nominal Lumens, and 0-10V Dimming Driver 19W 2x4 HE Troffer Retrofit Kit, 4000K Evokit HE 2x4 30L 19W 840 UNV 0-10 G5 EvoKit 2x2 31L 22W 840 UNV 0-10 G5

- 13

25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K

EvoKit 2x4 36L 25W 840 UNV 0-10 G5

6

LIGHTING PROJECT AS-BUILTS



RETROFIT

Project: Burnside Elementary

Prepared For: ISD #256 Burnside Elementary School

Location: 5001 Learning Ln. Red Wing, MN 55066



800-795-1230

www.retrofitcompanies.com

WARRANTY



Thank you for choosing Retrofit Lighting & Design, a division of The Retrofit Companies, Inc. as your lighting partner. We're proud to have been chosen to implement your project and we want to continue to support your lighting system if you should have any premature failures. Please <u>keep this information</u> in your files, as this will be required when submitting warranty claims. Retrofit Lighting & Design works with the manufacturer to fulfill warranty materials on your behalf.

| Customer Information: | Job Num |
|----------------------------------|---------|
| ISD #256 Red Wing Public Schools | 1425004 |

Project Description: Burnside Elementary Customer Number: ISD0256

Number:

Installation Completion Date: 12/12/2022

When requesting warranty products, you will have the option of hiring our team to troubleshoot and install the products OR self-submitting part #s and photos of the failed product. There may be additional information requested to validate the claim. The warranty submittal form can be found here or on our website under the warranty header.

Please see your scope of work for room-by-room details of areas that were included in the completed project



As-Built Material List

| Installed Qty | 7 | 24 | 9 | 5 | 7 | 61 | 24 | 7 | Q | 4 | 6 | 43 | 113 | 172 | 6 | 375 | 4 | 15 |
|------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Description | 12.5" Mounting Plate for Sylvania Canopy Fixture, Bronze | Aircraft Cable 10' With Hook (one pair) | Wireless Single Rocker Switch - BLE | nLight Air Battery Powered Preset Scene Wall Switch White Finish - Two Preset Scene Control + Single Zone On/Off/Raise/Lower Control | 40W LED Ceiling Canopy Fixture, 5000CT in Bronze | 38W 2x4 LX Series Fixture, 38W, 4635 Lumens, Seoul LED, RGBW, Frosted Lens, Casambi Wireless Control | 105W IBG LED High Bay Fixture, 5000K, 18000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device | 147W RSX2 LED Area Light, Type 2 Optics, 5000K, Dark Bronze Finish, 120-277V - Includes Square Pole Mounting | 187W RSX2 LED Area Light, Type 4 Optics, 5000K, Dark Bronze Finish Finish, 120-277V - Includes Square Pole Mounting | 210W RSX2 LED Area Light, Type 5 Wide Optics, 5000K, Dark Bronze Finish, 120-277V - Includes Square Pole Mounting | 27W LED Surface Mount Volumetric Fixture 4000K | 40W XSPW LED Wallpack Type 4 Optics 5000K 90CRI Bronze Finish | 25W 2x4 LED Troffer Retrofit Kit, 3600 Lumens, 4000K | 28W 2x4 LED Troffer Retrofit Kit, 4,000K, 4200 Nominal Lumens, and 0-10V Dimming Driver | 19W 2x4 HE Troffer Retrofit Kit, 4000K | 28W 2x4 LED Troffer Retrofit Kit, 4200 Lumens, 4000K with Step Dimming Driver | 30W LED 2x4 lensed troffer retrofit kit, 4425 initial lumens, 4000K color temp, with frosted lens, Dimming | 36W LED 2x4 lensed troffer retrofit kit, 4425 initial lumens, 4000K color temp, with frosted lens and 30/50/100 Step Dimming Driver |
| Part Number | CANOPY3A/MTGPLATE/12/BZ | IBAC120-M100 | ESRPB-W | RPODB 2S DX WH G2 | CANOPYS4A040UNVD8SC2C5BZ | F-24LX-L4H-RGBW-FR-CAS | IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI NLTAIR2 RIO WGX DWH | RSX2 LED P3 50K R2 MVOLT SPA DDBXD | RSX2 LED P4 50K R4 MVOLT SPA DDBXD | RSX2 LED P5 50K R5 MVOLT SPA DDBXD | STL4-30L-EZ1-LP840 | XSPW-B-WM-4ME-4L-50K-UL-BZ | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 | Evokit HE 2x4 30L 19W 840 UNV 0-10 G5 | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 | K-24LT-F4N0-2S-40-FR-D | K-24LT-F4N6-2S-40-FR-SD |
| Manufacturer | Sylvania LEDVANCE | Lithonia Lighting | EnOcean | Lithonia Lighting | Sylvania LEDVANCE | ESI | Lithonia Lighting | Lithonia Lighting | Lithonia Lighting | Lithonia Lighting | Lithonia Lighting | Cree Lighting | Philips | Philips | Philips | Philips | ESI | ESI |
| Classification | ACCESSORIES | ACCESSORIES | CONTROL | CONTROL | FIXTURE | FIXTURE | FIXTURE | FIXTURE | FIXTURE | FIXTURE | FIXTURE | FIXTURE | KIT | KIT | KIT | КІТ | КІТ | KIT |
| Type | × | × | C1 | C2 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | £1 | K2 | K3 | K4 | K5 | K6 |



| Type | Classification | Manufacturer | Part Number | Description | Installed Qty |
|------|----------------|------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|------------------|
| K7 | КІТ | Lithonia Lighting | LBK 3FT 1 2000LMHE 80CRI 40K MIN10 ZT MVOLT | 13.5W 3ft Light Bar Retrofit Kit - 4000K, 1 Bar | 10 |
| K8 | KIT | Lithonia Lighting | LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT | 19.5W 4ft Light Bar Retrofit Kit - 4000K, 1 Bar | 32 |
| K9 | KIT | Lithonia Lighting | LBR8 07LM 40K AR LSS MWD MVOLT UGZ | 9W LBR8 8" Recessed Can, 832 Nominal Lumens in 40K, Medium Distribution | 4 |
| 11 | LAMP | GREEN CREATIVE | 15.5PAR38DIM/940FL40 | 15.5W LED PAR38 E26 4000K Dimmable 90CRI - 120W Halogen Equivalent | 9 |
| Г3 | LAMP | GREEN CREATIVE | 17A21/840/277V/DIM | 17W LED A21 E26 4000K Dimmable - 125W Incandescent Equivalent | 2 |
| L3 | LAMP | GREEN CREATIVE | 3.5PLS/840/HYB/G23/R | 3.5W LED Hybrid PLS G23 4000K - 7-9W CFL Equivalent | 16 |
| L4 | LAMP | GREEN CREATIVE | 9A19DIM/840/R | 9W LED A19 E26 4000K Dimmable - 60W Incandescent Equivalent | ω |
| L5 | LAMP | GREEN CREATIVE | 9PLO/840/HYBM | 9W LED Hybrid PLO G24q & GX24q (4-pin) Based 40K - 26W CFL Equivalent | 10 |
| ГG | LAMP | Keystone Technologies | KT-LED9.5A19-O-850 | 9.5W LED A19 E26 5000K Dimmable - 60W Halogen Equivalent | 41 |
| L7 | LAMP | Universal Lighting Technologies | T8LACD2F9/840B25EC | 9W 2' LED Type B T8 Lamp 4000K | 2 |
| L8 | LAMP | Universal Lighting Technologies | T8LACD3F12/840B25EC | 12W 3' LED Type B T8 Lamp 4000K | 14 |
| F9 | LAMP | Universal Lighting Technologies | T8LACD4F12/840B25EC | 12W 4' LED Type B T8 Lamp 4000K | 364 |



Scope of Work

| Parts List | | - KT-LED9.5A19-O-850 (MFG: KEY) Qty: 1 | - KT-LED9.5A19-O-850 (MFG: KEY) Qty: 1 | - KT-LED9.5A19-O-850 (MFG: KEY) Qty: 1 | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) aty: 1 | - CANOPYS4A040UNVD8SC2C5BZ (MFG: SYL) | - KT-LED9.5A19-O-850 (MFG: KEY) Qty: 1 | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
|--------------------------------|-----------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------|----------------------------------------|---------------------------------------------|----------------------------------------------------|
| Installed Qty | 0 | 4 | 7 | 0 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ю | ~ | - |
| Proposed Solution | Do Nothing | KEYSTONE-9.5W-A19- 50K-1L | KEYSTONE-9.5W-A19- 50K-1L | KEYSTONE-9.5W-A19- 50K-1L | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | SYLVANIA-40W- CANOPYS4A-50K-BRZ | KEYSTONE-9.5W-A19- 50K-1L | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB |
| Existing Fixture Attributes | Recessed Can 6'' Can Recessed | Wall Mount * Wall | Wall Mount * Wall | Wall Mount * Wall | Wallpack Wall | Wallpack * Wall | Wallpack Wall | Wallpack * Wall | Wallpack Wall | Wallpack Wall | Recessed Can 6'' Can Recessed | Wall Mount * Wall | Wallpack * Wall | Wallpack * Wall |
| Existing | 1L 20W LED COB [1x LED DRIVER] | 1L 12W LEDS-M A19 [0x NULL] | 1L 12W LEDS-M A19 [0x NULL] | 1L 12W LEDS-M A19 [0x NULL] | 1L 100W HPS MED BASE HID [1× MAG] | 1L 22W LEDS-M COB [0x edit | 1L 100W HPS MED BASE HID [1× MAG] | 1L 22W LEDS-M COB [0x edit | 1L 100W HPS MED BASE HID [1× MAG] | 1L 100W HPS MED BASE HID [1× MAG] | 1L 70W HPS MED BASE HID [1x MAG] | 1L 12W LEDS-M A19 [0x NULL] | 1L 22W LEDS-M COB [0x edit | 1L 22W LEDS-M COB [0x edit |
| Room | Door 1 | Door 1 | Door 2 | Door 3 | WP 1 | WP 2 | WP 3 | WP 4 | WP 5 | WP 6 | Door 5 | Door 5 | WP 7 | WP 8 |
| Area | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior |
| ₽ | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 0.6 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 |



| Wallpack Wall CREE-XSPW-40W-50K- 1 CR Wallpack Wall CREE-XSPW-40W-50K- 1 -X: Wallpack Wall CREE-XSPW-40W-50K- 1 -X: Wallpack Wall CREE-XSPW-40W-50K- 1 -X: | IL 100W HPS MED Wallpack Wall T4-DB T - XW - 40W - 50K - 1 C R 1L 100W HPS MED Wallpack Wall CREE-XSPW 40W - 50K - 1 - Xi 1L 100W HPS MED Wallpack Wall T4-DB - Xi - Xi 1L 100W HPS MED Wallpack Wall CREE-XSPW 40W - 50K - 1 - Xi 1L 100W HPS MED Wallpack Wall T4-DB - Xi - Xi 1L 100W HPS MED Wallpack Wall CREE-XSPW 40W - 50K - 1 - Xi 1L 100W HPS MED Wallpack Wall CREE-XSPW 40W - 50K - 1 - Xi 1L 100W HPS MED Wallpack Wall CREE-XSPW 40W - 50K - 1 - Xi | WP 9 N.L. DOW HPS MED Wallpack Wall Vallpack Wall T4-DB T4-DB T - X WP 10 1L 100W HPS MED Wallpack Wall T4-DB T - X - X WP 10 1L 100W HPS MED Wallpack Wall T - X - X - X WP 10 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 - X 1L 100W HPS MED CREE-XSPW-40W-50K- - X - X | Exterior WP 9 NL 100W HPS MED Wallpack Wall T4-DB T4-DB T - X Exterior WP 10 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 - X Exterior WP 10 1L 100W HPS MED Wallpack Wall Vallpack Wall CREE-XSPW-40W-50K- 1 - X |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wallpack Wall CREE-XSPW-40W-50K- 1 Wallpack Wall T4-DB 1 Wallpack Wall CREE-XSPW-40W-50K- 1 | 1L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K-11L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K-11L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K-11L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K-1 | WP 10 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 MP 10 BASE HID [1x MAG] Wallpack Wall 1 1 11 100W HPS MED CREE-XSPW-40W-50K- 1 | Exterior WP 10 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 BASE HID [1x MAG] Wallpack Wall T4-DB 1 1 |
| Wallpack Wall CREE-XSPW-40W-50K- 1 T4-DB Wallpack Wall CREE-XSPW-40W-50K- 1 | 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 BASE HID [1x MAG] Wallpack Wall CREE-XSPW-40W-50K- 1 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 | 1L 100W HPS MED | _ |
| Wallback Wall CREE-XSPW-40W-50K- | 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 BASE HID [1x MAG] T4-DB 1 1 | WP 11 BASE HID [1x MAG] Wallpack Wall | Exterior WP 11 1L 100W HPS MED BASE HID [1x MAG] Wallpack Wall CREE-XSPW-40W-50K- T4-DB 1 |
| 14-DB | | WP 12 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 WP 12 BASE HID [1x MAG] Wallpack Wall T4-DB 1 | Exterior WP 12 1L 100W HPS MED BASE HID [1x MAG] Wallpack Wall CREE-XSPW-40W-50K- T4-DB 1 |
| Wallpack Wall CREE-XSPW-40W-50K- 1 74-DB | 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- BASE HID [1× MAG] Vallpack Wall 74-DB | WP 13 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 WP 13 BASE HID [1x MAG] Wallpack Wall T4-DB 1 | Exterior WP 13 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 T4-DB T4-DB T4-DB 1 1 1 |
| Wallpack * Wall CREE-XSPW-40W-50K- 1 74-DB | 1L 22W LEDS-M COB Wallpack * Wall CREE-XSPW-40W-50K- [0x edit 74-DB | WP 14 1L 22W LEDS-M COB Wallpack * Wall CREE-XSPW-40W-50K- 1 WP 14 [0x edit T4-DB 1 1 1 | Exterior WP 14 1L 22W LEDS-M COB Wallpack * Wall CREE-XSPW-40W-50K- 1 Investight T4-DB T4-DB 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Wallpack Wall CREE-XSPW-40W-50K- 1 T4-DB | 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 BASE HID [1x MAG] T4-DB 1 | WP 15 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 WP 15 BASE HID [1x MAG] Wallpack Wall T4-DB 1 | Exterior WP 15 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 T4-DB T4-DB T4-DB 1 1 1 1 |
| Recessed Can 6" Can Recessed CANOPYS4A-50K-BRZ | 1L 70W HPS MED BASE HID [1x MAG] Recessed Can 6" Can Recessed Can 6" Can Recessed Can 6" Can Recessed Can 9" 1 | Door 13 1L 70W HPS MED BASE HID [1x MAG] Recessed Can 6" Can Recessed CanOPYS4A-50K-BRZ 1 | Exterior 1L 70W HPS MED Recessed Can 6" Can Recessed SYLVANIA-40W- 1 BASE HID [1x MAG] Recessed Can 6" Can Recessed CANOPYS4A-50K-BRZ |
| Wallpack Wall CREE-XSPW-40W-50K- 1 - XSP T4-DB 7 CREE | 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 - XSP BASE HID [1× MAG] Wallpack Wall 74-DB 74-DB | WP 16 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 - XSP MP 16 BASE HID [1x MAG] Wallpack Wall T4-DB 7 CREE | Exterior WP 16 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 - XSP RASE HID [1× MAG] Wallpack Wall T4-DB T4-DB 1 CREE |
| | 11 100W HPS MED | 11 100W HPS MED M | XP 17 IL 100W HPS MED XAllnack Wall CREE-XSPW-40W-50K- 1 - XSPW |
| | | | |
| Recessed Can 6" Can Recessed SYLVANIA.40W- 1 Recessed Can 6" Can Recessed CANOPYS4A-50K-BRZ 1 Wallpack Wall CREE-XSPW-40W-50K- 1 | 1L 70W HPS MED SYLVANIA-40W- BASE HID [1x MAG] Recessed Can 6" Can Recessed CANOPYS4A-50K-BRZ 1 1L 100W HPS MED Wallpack Wall 1L 100W HPS MED Wallpack Wall 1L 100W HPS MED CREE-XSPW-40W-50K- 1L 100W HPS MED CREE-XSPW-40W-50K- | Door 13 1L 70W HPS MED Recessed Can 6" Can Recessed SYLVANIA-40W- Door 13 1L 70W HPS MED Recessed Can 6" Can Recessed CANOPYS4A-50K-BRZ WP 16 1L 100W HPS MED Wallpack Wall CREE-XSPW-40W-50K- 1 WP 16 1L 100W HPS MED Mailpack Wall CREE-XSPW-40W-50K- 1 MP 17 1L 100W HPS MED MAIlpack Wall CREE-XSPW-40W-50K- 1 | ExteriorDoor 131L 70W HPS MED BASE HID [1x MAG]Recessed Can 6" Can Recessed CANOPYS4A-50K-BRZ1ExteriorWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW 40W-50K- T4-DB1ExteriorWP 171L 100W HPS MED Mallpack WallWallpack WallCREE-XSPW 40W-50K- T4-DB1 |
| Wallpack Wall T4-DB Wallpack Wall CREE-XSPW-40W-50K- Wallpack * Wall T4-DB Wallpack * Wall CREE-XSPW-40W-50K- Wallpack Wall T4-DB Wallpack Wall T4-DB Wallpack Wall SYLVANIA-40W-50K- Wallpack Wall SYLVANIA-40W-50K- Wallpack Wall SYLVANIA-40W-50K- Recessed Can 6" Can Recessed SYLVANIA-40W-50K- Wallpack Wall CREE-XSPW-40W-50K- Wallpack Wall CREE-XSPW-40W-50K- | 1L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K- T4-DB1L 22W LEDS-M COB [0x editWallpack WallCREE-XSPW-40W-50K- T4-DB1L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K- T4-DB1L 70W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K- T4-DB1L 100W HPS MED BASE HID [1x MAG]Recessed Can 6" Can Recessed Can Recessed Can Recessed Can Recessed Can Recessed Can Recessed Can RecessedSYLVANIA.40W-50K- T4-DB1L 100W HPS MED BASE HID [1x MAG]Wallpack WallCREE-XSPW-40W-50K- T4-DB1L 100W HPS MED | WT 12BASE HID [1x MaG]Weilpack WallT4-DBWP 131L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-WP 141L 22W LEDS-M COBWallpack WallCREE-XSPW-40W-50K-WP 151L 22W LEDS-M COBWallpack WallT4-DBWP 151L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-WP 151L 100W HPS MEDWallpack WallT4-DBDoor 131L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-WP 161L 100W HPS MEDRecessed Can 6" Can RecessedSYLVANIA-40W-WP 161L 100W HPS MEDWallpack WallSYLVANIA-40W-WP 161L 100W HPS MEDWallpack WallSYLVANIA-40W-WP 161L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-WP 161L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-WD 161L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-WD 171L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-WD 171L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K- | LATELINW. 12BASE HID [1 x MG]Wallpack WallT4-DBExteriorWP 131L 100W HPS MEDWallpack WallT4-DBExteriorWP 141L 22W LEDS-M COBWallpack * WallT4-DBExteriorWP 151L 100W HPS MEDWallpack * WallT4-DBExteriorWP 151L 100W HPS MEDWallpack * WallT4-DBExteriorWP 151L 100W HPS MEDWallpack wallT4-DBExteriorWP 151L 100W HPS MEDWallpack wallT4-DBExteriorWP 151L 100W HPS MEDWallpack wallSYLVANIA40W-50K-ExteriorDoor 131L 700W HPS MEDRecessed Can 6" Can RecessedSYLVANIA40W-ExteriorWP 161L 100W HPS MEDWallpack WallSYLVANIA40W-50K-ExteriorWP 161L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-ExteriorWP 161L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K-ExteriorWP 161L 100W HPS MEDWallpack WallCREE-XSPW-40W-50K- |
| Wallpack Wall Wallpack * Wall Wallpack Wall Recessed Can 6" Can Recessed Wallpack Wall | 1L 100W HPS MED Wallpack Wall BASE HID [1x MAG] Wallpack Wall 1L 22W LEDS-M COB Wallpack * Wall [0x edit Wallpack * Wall 1L 100W HPS MED Wallpack * Wall 1L 70W HPS MED Wallpack Wall 1L 70W HPS MED Wallpack Wall 1L 70W HPS MED Recessed Can 6" Can Recessed 1L 100W HPS MED Wallpack Wall 1L 100W HPS MED Wallpack Wall | WP 121L 100W HPS MED BASE HID [1x MAG]Wallpack WallWP 131L 100W HPS MED BASE HID [1x MAG]Wallpack WallWP 141L 22W LEDS-M COB [0x editWallpack WallWP 151L 100W HPS MED BASE HID [1x MAG]Wallpack WallWP 151L 100W HPS MED BASE HID [1x MAG]Wallpack WallWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack WallWP 161L 100W HPS MED BASE HID [1x MAG]Recessed Can 6" Can Recessed Mallpack WallWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack WallWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack WallWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack Wall | ExteriorWP 121L 100W HPS MED BASE HID [1x MAG]Wallpack WallExteriorWP 131L 100W HPS MED BASE HID [1x MAG]Wallpack WallExteriorWP 151L 22W LEDS-M COB [0x editWallpack WallExteriorWP 151L 20W HPS MED [0x editWallpack WallExteriorWP 151L 100W HPS MED BASE HID [1x MAG]Wallpack WallExteriorWP 151L 100W HPS MED BASE HID [1x MAG]Wallpack WallExteriorWP 161L 100W HPS MED BASE HID [1x MAG]Recessed Can 6" Can RecessedExteriorWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack WallExteriorWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack WallExteriorWP 161L 100W HPS MED BASE HID [1x MAG]Wallpack Wall |
| | 1L 100W HPS MED BASE HID [1× MAG] 1L 22W LEDS-M COB [0x edit 1L 100W HPS MED BASE HID [1× MAG] BASE HID [1× MAG] 1L 100W HPS MED BASE HID [1× MAG] 1L 100W HPS MED BASE HID [1× MAG] | BASE HID [1X MAG] WP 13 BASE HID [1X MAG] WP 13 BASE HID [1X MAG] WP 14 1L 22W LEDS-M COB WP 15 1L 22W LEDS-M COB BASE HID [1X MAG] 11L 20W HPS MED WP 15 BASE HID [1X MAG] Door 13 BASE HID [1X MAG] WP 16 1L 70W HPS MED WP 16 1L 100W HPS MED WP 16 BASE HID [1X MAG] MP 16 1L 100W HPS MED MP 16 BASE HID [1X MAG] MP 16 1L 100W HPS MED MP 16 BASE HID [1X MAG] | Exterior WP 13 BASE HID [1X MAG] Exterior WP 13 BASE HID [1X MAG] Exterior WP 14 1L 22W LEDS-M COB Exterior WP 15 [0x edit Exterior WP 15 BASE HID [1X MAG] Exterior WP 16 BASE HID [1X MAG] |

Page 2 of 19

| Schools | |
|---------|------|
| Wing | |
| Red | |
| #256 | #621 |
| ISD | dol |

| ₽ | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|------|----------|---------|--------------------------------------|--------------------------------|------------------------------------|------------------|---------------------------------------------------------------------------------------------------|
| 29.0 | Exterior | Door 15 | 1L 70W HPS MED BASE HID [1x MAG] | Recessed Can 6'' Can Recessed | SYLVANIA-40W- CANOPYS4A-50K-BRZ | . | - CANOPYS4A040UNVD8SC2C5BZ (MFG: SYL) |
| 30.0 | Exterior | Door 15 | 1L 12W LEDS-M A19 [0x NULL] | Wall Mount * Wall | KEYSTONE-9.5W-A19- 50K-1L | ю | - KT-LED9.5A19-O-850 (MFG: KEY) Qty: 1 |
| 31.0 | Exterior | WP 22 | 1L 100W HPS MED BASE HID [1× MAG] | Walipack Wall | CREE-XSPW-40W-50K- T4-DB | . | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 32.0 | Exterior | WP 23 | 1L 22W LEDS-M COB [0x edit | Wallpack * Wall | CREE-XSPW-40W-50K- T4-DB | - | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 33.0 | Exterior | WP 24 | 1L 22W LEDS-M COB [0x edit | Wallpack * Wall | CREE-XSPW-40W-50K- T4-DB | - | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 34.0 | Exterior | WP 25 | 1L 100W HPS MED BASE HID [1× MAG] | Walipack Wall | CREE-XSPW-40W-50K- T4-DB | . | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 35.0 | Exterior | WP 26 | 1L 100W HPS MED BASE HID [1× MAG] | Walipack Wall | CREE-XSPW-40W-50K- T4-DB | . | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 36.0 | Exterior | Door 17 | 1L 70W HPS MED BASE HID [1x MAG] | Recessed Can 6'' Can Recessed | SYLVANIA-40W- CANOPYS4A-50K-BRZ | . | - CANOPYS4A040UNVD8SC2C5BZ (MFG: SYL) aty: 1 - CANOPY3A/MTGPLATE/12/BZ (MFG: SYL) aty: 1 |
| 37.0 | Exterior | WP 27 | 1L 100W HPS MED BASE HID [1× MAG] | Walipack Wall | CREE-XSPW-40W-50K- T4-DB | . | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 38.0 | Exterior | WP 28 | 1L 100W HPS MED BASE HID [1× MAG] | Walipack Wall | CREE-XSPW-40W-50K- T4-DB | . | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 39.0 | Exterior | WP 29 | 1L 100W HPS MED BASE HID [1× MAG] | Walipack Wall | CREE-XSPW-40W-50K- T4-DB | ۲ | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 40.0 | Exterior | WP 29 | 1L 12W LEDS-M A19 [0x NULL] | Wall Mount * Wall | KEYSTONE-9.5W-A19- 50K-1L | 2 | - KT-LED9.5A19-O-850 (MFG: KEY) Qty: 1 |
| 41.0 | Exterior | WP 30 | 1L 22W LEDS-M COB [0x edit | Walipack * Wall | CREE-XSPW-40W-50K- T4-DB | ۲ | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| 42.0 | Exterior | WP 31 | 1L 100W HPS MED BASE HID [1× MAG] | Walipack Wall | CREE-XSPW-40W-50K- T4-DB | . | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |

Job #621

43.0

44.0

45.0

46.0

47.0

| Parts List | - KT-LED9.5A19-O-850 (MFG: KEY) Qty: 1 | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 | - CANOPYS4A040UNVD8SC2C5BZ (MFG: SYL) Qty: 1 - CANOPY3A/MTGPLATE/12/BZ (MFG: SYL) Qty: 1 | | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) | - CANOPYS4A040UNVD8SC2C5BZ (MFG: SYL) Qty: 1 - CANOPY3A/MTGPLATE/12/BZ (MFG: SYL) Qty: 1 |
|--------------------------------|----------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------|
| Installed Qty | 2 | Ļ | - | - | - | . | - | 0 | Ļ | ~ | - | Ļ |
| Proposed Solution | KEYSTONE-9.5W-A19- 50K-1L | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | SYLVANIA-40W- CANOPYS4A-50K-BRZ | Do Nothing | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | CREE-XSPW-40W-50K- T4-DB | SYLVANIA-40W- CANOPYS4A-50K-BRZ |
| Existing Fixture Attributes | Wall Mount * Wall | Wallpack * Wall | Wallpack * Wall | Wallpack * Wall | Wallpack * Wall | Walipack Wall | Recessed Can 6'' Can Recessed | Flood Wall | Wallpack * Wall | Wallpack * Wall | Wallpack * Wall | Recessed Can 6'' Can Recessed |
| Existing | 1L 12W LEDS-M A19 [0x NULL] | 1L 22W LEDS-M COB [0x edit | 1L 100W HPS MED BASE HID [1× MAG] | 1L 70W HPS MED BASE HID [1x MAG] | 1L 63W LED Array [1x LED DRIVER] | 1L 22W LEDS-M COB [0x edit | 1L 22W LEDS-M COB [0x edit | 1L 22W LEDS-M COB [0x edit | 1L 70W HPS MED BASE HID [1x MAG] |
| Room | WP 31 | WP 32 | WP 33 | WP 34 | WP 35 | WP 36 | Door 20 | FL 1 | WP 37 | WP 38 | WP 39 | Door 21 |
| Area | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior | Exterior |

48.0

49.0

50.0

51.0

52.0

53.0



- KT-LED9.5A19-0-850 (MFG: KEY) Qty: 1

ო

KEYSTONE-9.5W-A19-50K-1L

Wall Mount * Wall

1L 12W LEDS-M A19 [0x NULL]

Door 21

Exterior

55.0

54.0

Wallpack * Wall

1L 22W LEDS-M COB [0x edit

WP 40

Exterior

56.0

- XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1

CREE-XSPW-40W-50K-T4-DB

| Schools |
|---------|
| Wing |
| Red |
| #256 |
| ISD |

Job #621



| | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|---|----------|-------------|--------------------------------------|--------------------------------|---------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------|
| | Exterior | WP 41 | 1L 22W LEDS-M COB [0x edit | Wallpack * Wall | CREE-XSPW-40W-50K- T4-DB | - | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| | Exterior | WP 42 | 1L 22W LEDS-M COB [0x edit | Wallpack * Wall | CREE-XSPW-40W-50K- T4-DB | . | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| - | Exterior | WP 43 | 1L 22W LEDS-M COB [0x edit | Wallpack * Wall | CREE-XSPW-40W-50K- T4-DB | | - XSPW-B-WM-4ME-4L-50K-UL-BZ (MFG: CREE) Qty: 1 |
| | Exterior | Door 22 | 1L 70W HPS MED BASE HID [1x MAG] | Recessed Can 6" Can Recessed | SYLVANIA-40W- CANOPYS4A-50K-BRZ | ~ | - CANOPY34A040UNVD8SC2C5BZ (MFG: SYL) Qty: 1 - CANOPY3A/MTGPLATE/12/BZ (MFG: SYL) Qty: 1 |
| - | Exterior | Door 22 | 1L 12W LEDS-M A19 [0x NULL] | Wall Mount * Wall | KEYSTONE-9.5W-A19- 50K-1L | 10 | - KT-LED9.5A19-0-850 (MFG: KEY) Qty: 1 |
| | Exterior | Flag Pole 1 | 1L 16W LED COB [1x LED DRIVER] | Flood Wall | Do Nothing | 0 | |
| | Exterior | Pole 1 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light Pole | LITHONIA-RSX2-187W- 50K-R4-MVOLT-SPA- DDBXD | | - RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| | Exterior | Pole 2 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light Pole | LITHONIA-RSX2-187W- 50K-R4-MVOLT-SPA- DDBXD | Ł | - RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| | Exterior | Pole 3 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light Pole | LITHONIA-RSX2-187W- 50K-R4-MVOLT-SPA- DDBXD | . | - RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| | Exterior | Pole 4 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light Pole | LITHONIA-RSX2-187W- 50K-R4-MVOLT-SPA- DDBXD | . | - RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| | Exterior | Pole 5 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light Pole | LITHONIA-RSX2-210W- 50K-R5-MVOLT-SPA- DDBXD | Ł | - RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| | Exterior | Pole 5 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | Remove | ٢ | |
| | Exterior | Pole 6 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | LITHONIA-RSX2-147W- 50K-R2-MVOLT-SPA- DDBXD | - | - RSX2 LED P3 50K R2 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| | Exterior | Pole 7 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | LITHONIA-RSX2-147W- 50K-R2-MVOLT-SPA- DDBXD | Ţ. | - RSX2 LED P3 50K R2 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |

| 6 | |
|-----|--|
| N N | |
| 5 | |
| 5 | |

| Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|----------|------------------|--------------------------------------|--------------------------------|---------------------------------------------------|------------------|------------------------------------------------------------|
| Exterior | Pole 8 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | LITHONIA-RSX2-210W- 50K-R5-MVOLT-SPA- DDBXD | | - RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| Exterior | Pole 8 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light Pole | Remove | - | |
| Exterior | Pole 9 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | LITHONIA-RSX2-210W- 50K-R5-MVOLT-SPA- DDBXD | . | - RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| Exterior | Pole 9 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | Remove | | |
| Exterior | Pole 10 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | LITHONIA-RSX2-210W- 50K-R5-MVOLT-SPA- DDBXD | . | - RSX2 LED P5 50K R5 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| Exterior | Pole 10 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | Remove | - | |
| Exterior | Pole 11 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | LITHONIA-RSX2-187W- 50K-R4-MVOLT-SPA- DDBXD | | - RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| Exterior | Pole 11 | 1L 100W LED COB [1x LED DRIVER] | Flood Yolk | Do Nothing | 0 | |
| Exterior | Pole 12 | 1L 400W HPS MOG BASE HID [1× MAG] | Pole Light Pole | LITHONIA-RSX2-187W- 50K-R4-MVOLT-SPA- DDBXD | | - RSX2 LED P4 50K R4 MVOLT SPA DDBXD (MFG: LITH) Qty: 1 |
| Exterior | Pole 12 | 1L 100W LED COB [1x LED DRIVER] | Flood Yolk | Do Nothing | 0 | |
| Exterior | FL 1 | 1L 44W LED COB [1x LED DRIVER] | Flood Knuckle | Do Nothing | 0 | |
| Exterior | FL 2 | 1L 44W LED COB [1x LED DRIVER] | Flood Knuckle | Do Nothing | 0 | |
| nterior | Door 1 vestibule | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" × 10" Surface | Do Nothing | 0 | |
| nterior | Горру | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Lensed Troffer 2x4 Recessed | PHILLIPS-EVOKIT2X4- 25W-40K | 3 | - Evokit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| nterior | Горру | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILLIPS-EVOKIT2X4- 25W-40K | 7 | - Evokit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| nterior | Lobby | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |

C RC

| ₽ | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|------|----------|---------------------------------------|-----------------------------------------------|--------------------------------|---------------------------------|------------------|-----------------------------------------------------------|
| 1.0 | Interior | Lobby | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 17 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 2.0 | Interior | Горру | 1L 20W LED COB [1x LED DRIVER] | Recessed Can 6" Can Recessed | Do Nothing | 0 | |
| 33.0 | Interior | Trophy Case | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 4 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 35.0 | Interior | Room 100 - Main Office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Parabolic Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | Q | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 86.0 | Interior | Room 100 - Main Office | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| 87.0 | Interior | Room 101 - Principals Office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Parabolic Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 4 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 88.0 | Interior | Room 102 - Health Services | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Parabolic Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | . | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 89.0 | Interior | Room 102 - Health Services | 2L 60W INCS-M A19 [0x NULL] | Vanity Wall | GC-VS-9W-A19-40K-2L | 2 | - 9A19DIM/840/R (MFG: GC) Qty: 2 |
| 0.06 | Interior | Room 102 - Health Services | 2L 13W CFS-M SPIRAL [0x NULL] | Vanity Wall | GC-VS-9W-A19-40K-2L | ۲ | - 9A19DIM/840/R (MFG: GC) Qty: 2 |
| 91.0 | Interior | Room 102 - Health Services | 1L 40W LED Linear Board [1x LED DRIVER] | Lensed Troffer 2x2 Recessed | Do Nothing | 0 | |
| 92.0 | Interior | Room 102A - health services office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Parabolic Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 93.0 | Interior | Health Services Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Wrap 4' Surface | LITHONIA-STL4-27W- 40K | - | - STL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 |
| 94.0 | Interior | Room 103 | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Parabolic Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 4 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 95.0 | Interior | Restroom 1 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Wrap 4' Surface | LITHONIA-STL4-27W- 40K | - | - STL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 |
| 96.0 | Interior | Restroom 2 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Wrap 4' Surface | LITHONIA-STL4-27W- 40K | 1 | - STL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 |
| 97.0 | Interior | Room 104 - breakroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 4 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 98.0 | Interior | Room 104 - breakroom | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |



| Parts List | - Evokit HE 2x4 30L 19W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | - F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) Qty: | | - EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | - 3.5PLS/840/HYB/G23/R (MFG: GC) Qty: 2 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 3 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 3 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
|--------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------|-----------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| Installed Qty | 6 | 2 | 4 | 0 | 35 | 4 | ю | с | 9 | 5 | 12 | 2 | 2 | 12 | 12 | с |
| Proposed Solution | PHILIPS-EVOKIT2x4- 19W-40K-HE | PHILIPS-EVOKIT2X4- 28W-40K-D | ESI-F24LX-38W-RGBW | Do Nothing | PHILLIPS-EVOKIT2X4- 25W-40K | GC-3.5W-PL-40K-2L | ULT-248-12W-40K-DE | ULT-248-12W-40K-DE | ULT-248-12W-40K-DE | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-SD | ULT-348-12W-40K-DE | ULT-348-12W-40K-DE | PHILIPS-EVOKIT2X4- 28W-40K-SD | PHILIPS-EVOKIT2X4- 28W-40K-SD | PHILIPS-EVOKIT2X4- 28W-40K-D |
| Existing Fixture Attributes | Parabolic Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Parabolic Troffer 2x4 Recessed | Canopy 10" x 10" Surface | Lensed Troffer 2x4 Recessed | Decorative 9" Wall | Standard Strip 4' Surface | Standard Strip 4' Surface | Standard Strip 4' Surface | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed |
| Existing | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 1L 20W LED Array [1x LED DRIVER] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 7W CFN SGL TUBE 2PIN N-I [1× MAG ES] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] |
| Room | Room 104A - copy room | Room 104B - Server Room | Room 105 - Wellness Room | Door 22 vestibule | A Wing Hallway B | A Wing Hallway B | A Wing Hallway B | A Wing Hallway B | A Wing Hallway B | Room 106 - Student Services | Room 107 - classroom | Room 108 - Student Services | Room 109 - Student Services | Room 110 - classroom | Room 111 - classroom | Room 111 - classroom |
| Area | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior |
| ₽ | 0.66 | 100.0 | 101.0 | 102.0 | 103.0 | 104.0 | 105.0 | 106.0 | 107.0 | 108.0 | 109.0 | 110.0 | 111.0 | 112.0 | 113.0 | 114.0 |

TRC

| ₽ | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|-------|----------|-------------------------|-------------------------------------|--------------------------------|----------------------------------|------------------|--------------------------------------------------------------|
| 115.0 | Interior | Room 111 - classroom | 1L 150W INCS-M PAR38 [0x NULL] | Track 6" Can Surface | GC-17W-PAR38-40K- 1L-277V | 9 | - 15.5PAR38DIM/940FL40 (MFG: GC) Qty: 1 |
| 116.0 | Interior | Room 111A | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 117.0 | Interior | Room 112 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 118.0 | Interior | Room 113 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 119.0 | Interior | Room 114 - Supplies | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 3 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 120.0 | Interior | Room 115 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 121.0 | Interior | Door 21 vestibule | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| 122.0 | Interior | Room 116 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 123.0 | Interior | Room 117 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 124.0 | Interior | Room 118 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 125.0 | Interior | Door 20 vestibule | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| 126.0 | Interior | Room 119 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 127.0 | Interior | Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 4 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 128.0 | Interior | Boys Restroom | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| 129.0 | Interior | Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 4 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 130.0 | Interior | Girls Restroom | 1L 20W LED Array [1× LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |



| ₽ | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List | |
|-------|----------|--------------------------------|------------------------------------------------|-------------------------------------|----------------------------------|------------------|--------------------------------------------------------------|--|
| 31.0 | Interior | Room 120 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | |
| 32.0 | Interior | Room 124 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | - | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | |
| 33.0 | Interior | Room 121 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | |
| 34.0 | Interior | Room 122 - Student Services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | ESI-F24LX-38W-RGBW | N | - F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) Qty: 1 | |
| 35.0 | Interior | Room 123 - student services | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | N | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | |
| 36.0 | Interior | Room 124 | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Recessed Square 13?x13x Recessed | GC-9W-PLO-40K-2L | - | - 9PLO/840/HYBM (MFG: GC) Qty: 2 | |
| 37.0 | Interior | Room 125 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | |
| 38.0 | Interior | Room 126 - Conference Room | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | |
| 39.0 | Interior | Room 127 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | ESI-F24LX-38W-RGBW | 41 | - F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) Qty: 1 | |
| 40.0 | Interior | Room 127A | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | |
| 141.0 | Interior | Room 128 | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | |
| 142.0 | Interior | Room 129 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | ESI-F24LX-38W-RGBW | 14 | - F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) Qty: 1 | |
| 143.0 | Interior | Women?s Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 2 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | |
| 44.0 | Interior | Women?s Restroom | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | | |
| 145.0 | Interior | Women?s Restroom | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | | |

TRC

| Q | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List | |
|-------|----------|------------------------------------|------------------------------------------------|--------------------------------|----------------------------------------|------------------|------------------------------------------------------------|--|
| 146.0 | Interior | Supply Room | 1L 30W LED Linear Board [1x LED DRIVER] | Standard Strip 4' Wall | Do Nothing | 0 | | |
| 147.0 | Interior | Mens Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 7 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | |
| 148.0 | Interior | Mens Restroom | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | | |
| 149.0 | Interior | Room 130 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | ESI-F24LX-38W-RGBW | 16 | - F-24LX-L4H-RGBW-FR-CAS (MFG: ESI) Qty: 1 | |
| 150.0 | Interior | Room 130 - classroom | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Recessed Can 8" Recessed | LITHONIA-LBR8-9W- 40K-MWD-MVOLT-UGZ | . | - LBR8 07LM 40K AR LSS MWD MVOLT UGZ (MFG: LITH) Qty: 1 | |
| 277.0 | Interior | Room 130 - classroom | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Recessed Can 8" Recessed | LITHONIA-LBR8-9W- 40K-MWD-MVOLT-UGZ | 2 | - LBR8 07LM 40K AR LSS MWD MVOLT UGZ (MFG: LITH) Qty: 1 | |
| 151.0 | Interior | A Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILLIPS-EVOKIT2X4- 25W-40K | 7 | - EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | |
| 152.0 | Interior | A Wing Hallway A | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | | |
| 153.0 | Interior | A Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 14 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | |
| 154.0 | Interior | A Wing Hallway A | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Standard Strip 3' Surface | ULT-236-12W-40-DE | 2 | - T8LACD3F12/840B25EC (MFG: ULT) Qty: 2 | |
| 155.0 | Interior | Media Center | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 31 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | |
| 156.0 | Interior | Media Center | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | | |
| 157.0 | Interior | Media Center | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 4 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | |
| 158.0 | Interior | Media Center | 2L 25W LF3 T8 [1× ELE T8 IS NP] | Standard Strip 3' Surface | ULT-236-12W-40-DE | 2 | - T8LACD3F12/840B25EC (MFG: ULT) Qty: 2 | |
| 159.0 | Interior | Media Center | 2L 17W LF2 T8 [1x ELE T8 IS NP] | Standard Strip 2' Surface | ULT-224-9W-40K-DE | - | - T8LACD2F9/840B25EC (MFG: ULT) Qty: 2 | |
| 160.0 | Interior | Room 131A - Media Center Office | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | |

Page 11 of 19



| Q | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|-------|------------|--------------------------|-------------------------------------|--------------------------------|------------------------------------|------------------|---------------------------------------------------------------------|
| 161.(| 0 Interior | Room 131B - Copy Room | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 162.0 | 0 Interior | Room 132 | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 9 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 163.(| 0 Interior | Room 132A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 4 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 164.(| 0 Interior | Room 132A | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| 165.0 | 0 Interior | Room 133 | 10L 25W LF4 T8 [3x ELE T8 IS NP] | Indirect 20? Suspended | Lithonia-LBK 4FT 1 3000 40K (5) | ~ | - LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) Qty: 5 |
| 167.0 | 0 Interior | Room 133 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Indirect 4' Wall | Lithonia-LBK 4FT 1 3000 40K | 2 | - LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) Qty: 1 |
| 168.0 | 0 Interior | Room 133 | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Indirect 3' Wall | Lithonia-LBK 3FT 1 2000 40K | 2 | - LBK 3FT 1 2000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) Qty: 1 |
| 169.0 | 0 Interior | Room 136 | 10L 25W LF4 T8 [3x ELE T8 IS NP] | Indirect 20? Suspended | Lithonia-LBK 4FT 1 3000 40K (5) | ~ | - LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) Qty: 5 |
| 170.1 | 0 Interior | Room 136 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Indirect 4' Wall | Lithonia-LBK 4FT 1 3000 40K | 15 | - LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) Qty: 1 |
| 171.(| 0 Interior | Room 136 | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Indirect 3' Wall | Lithonia-LBK 3FT 1 2000 40K | 5 | - LBK 3FT 1 2000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) Qty: 1 |
| 278.1 | 0 Interior | Room 136 | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Indirect 4' Wall | Lithonia-LBK 4FT 1 3000 40K | 5 | - LBK 4FT 1 3000LMHE 80CRI 40K MIN10 ZT MVOLT (MFG: LITH) Qty: 1 |
| 172.(| 0 Interior | Room 135 | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 5 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 173.(| 0 Interior | B Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILLIPS-EVOKIT2X4- 25W-40K | 7 | - EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 174.1 | 0 Interior | B Wing Hallway A | 2L 17W LF2 T8 [1x ELE T8 IS NP] | Standard Strip 2' Surface | Do Nothing | 0 | |
| 175.0 | 0 Interior | B Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 16 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 176.1 | 0 Interior | B Wing Hallway A | 2L 25W LF3 T8 [1x ELE T8 IS NP] | Standard Strip 3' Surface | ULT-236-12W-40-DE | - | - T8LACD3F12/840B25EC (MFG: ULT) Qty: 2 |



| | (MFG: | (MFG: | EP G5 | (MFG: | (MFG: | (MFG: | (MFG: | | (MFG: | 1: 2 | 2ty: 2 | tty: 2 | (MFG: | |
|--------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|-------------------------------------|-----------------------------------------------------|-----------------------------------------------|------------------------------------|------------------------------------|----------------------------------------|-----------------------------|
| Parts List | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 PHI) Qty: 1 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 PHI) Qty: 1 | - EVOKIT HE 2x4 42L 28W 840 UNV STI (MFG: PHI) Qty: 1 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5. PHI) Qty: 1 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 PHI) Qty: 1 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5. PHI) Qty: 1 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 PHI) Qty: 1 | | - EvoKit 2x4 36L 25W 840 UNV 0-10 G5 PHI) Qty: 1 | - 3.5PLS/840/HYB/G23/R (MFG: GC) Qty | - T8LACD4F12/840B25EC (MFG: ULT) C | - T8LACD3F12/840B25EC (MFG: ULT) C | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (| PHI) Qty: 1 |
| Installed Qty | 7 | 9 | 15 | 7 | 5 | 7 | 2 | 0 | 26 | 7 | 5 | ~ | | ო |
| Proposed Solution | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-SD | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-D | Do Nothing | PHILLIPS-EVOKIT2X4- 25W-40K | GC-3.5W-PL-40K-2L | ULT-248-12W-40K-DE | ULT-236-12W-40-DE | EVICKIT2X1 | 28W-40K-D |
| Existing Fixture Attributes | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Canopy 10" × 10" Surface | Lensed Troffer 2x4 Recessed | Decorative 9" Wall | Standard Strip 4' Surface | Standard Strip 3' Surface | | Lensed Itolier 2x4 Recessed |
| Existing | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 1L 20W LED Array [1x LED DRIVER] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 25W LF3 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x | ELE T8 IS NP] |
| Room | B Wing Hallway A | Room 134 - Classroom | Room 137 - classroom | Room 137A | Room 137B | Room 137C | Room 138/139 - Student Services | Door 17 vestibule | B Wing Hallway B | B Wing Hallway B | B Wing Hallway B | B Wing Hallway B | Room 140 | |
| Area | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | |
| 9 | 276.0 | 177.0 | 178.0 | 179.0 | 180.0 | 181.0 | 182.0 | 183.0 | 184.0 | 185.0 | 186.0 | 187.0 | 188.0 | |
TRC

| - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | 12 | PHILIPS-EVOKIT2X4- 28W-40K-SD | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Room 149 - classroom | Interior | 206.0 |
|--------------------------------------------------------------|------------------|----------------------------------|--------------------------------|-------------------------------------|-------------------------|----------|-------|
| | 0 | Do Nothing | Canopy 10" × 10" Surface | 1L 20W LED Array [1x LED DRIVER] | Door 14 vestibule | Interior | 205.0 |
| - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | 12 | PHILIPS-EVOKIT2X4- 28W-40K-SD | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Room 148 - classroom | Interior | 204.0 |
| - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | 12 | PHILIPS-EVOKIT2X4- 28W-40K-SD | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Room 147 - classroom | Interior | 203.0 |
| | 0 | Do Nothing | Canopy 10" x 10" Surface | 1L 20W LED Array [1x LED DRIVER] | Girls Restroom | Interior | 202.0 |
| - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | 3 | ULT-248-12W-40K-DE | Standard Strip 4' Surface | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Girls Restroom | Interior | 201.0 |
| | 0 | Do Nothing | Canopy 10" x 10" Surface | 1L 20W LED Array [1x LED DRIVER] | Boys Restroom | Interior | 200.0 |
| - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 | 3 | ULT-248-12W-40K-DE | Standard Strip 4' Surface | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Boys Restroom | Interior | 199.0 |
| - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | 12 | PHILIPS-EVOKIT2X4- 28W-40K-SD | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Room 146 - classroom | Interior | 198.0 |
| | 0 | Do Nothing | Canopy 10" x 10" Surface | 1L 20W LED Array [1x LED DRIVER] | Door 15 vestibule | Interior | 197.0 |
| - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | 12 | PHILIPS-EVOKIT2X4- 28W-40K-SD | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Room 145 - classroom | Interior | 196.0 |
| - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | N | PHILIPS-EVOKIT2X4- 28W-40K-D | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Room 144 | Interior | 195.0 |
| - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | 12 | PHILIPS-EVOKIT2X4- 28W-40K-SD | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Room 143 - classroom | Interior | 194.0 |
| - T8LACD4F12/840B25EC (MFG: ULT) Qty: 4 | ~ | ULT-448-12W-40K-DE | Standard Strip 8' Surface | 4L 25W LF4 T8 [1x ELE T8 IS NP] | Server Room | Interior | 193.0 |
| - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 | 12 | PHILIPS-EVOKIT2X4- 28W-40K-SD | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Room 142 - classroom | Interior | 192.0 |
| - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 | 2 | PHILIPS-EVOKIT2X4- 28W-40K-D | Lensed Troffer 2x4 Recessed | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Room 141A | Interior | 191.0 |
| Parts List | Installed Qty | Proposed Solution | Existing Fixture Attributes | Existing | Room | Area | ₽ |

| 1 | ~~ | |
|---|----|---------------|
| | y | 7 |
| 1 | F | \mathcal{M} |
| | 1- | |
| | 5 | |

| ₽ | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|-------|----------|---------------------------|------------------------------------------------|--------------------------------|----------------------------------------|------------------|--------------------------------------------------------------|
| 207.0 | Interior | Room 150 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 12 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 208.0 | Interior | C Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILLIPS-EVOKIT2X4- 25W-40K | 15 | - EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 209.0 | Interior | C Wing Hallway A | 2L 7W CFN SGL TUBE 2PIN N-I [1x MAG ES] | Decorative 9" Wall | GC-3.5W-PL-40K-2L | 5 | - 3.5PLS/840/HYB/G23/R (MFG: GC) Qty: 2 |
| 210.0 | Interior | C Wing Hallway A | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | ю | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 275.0 | Interior | C Wing Hallway A | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Recessed Can 8" Recessed | LITHONIA-LBR8-9W- 40K-MWD-MVOLT-UGZ | . | - LBR8 07LM 40K AR LSS MWD MVOLT UGZ (MFG: LITH) Qty: 1 |
| 211.0 | Interior | Door 13 vestibule | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| 212.0 | Interior | Room 156 - classroom | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 15 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 213.0 | Interior | Room 156B | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | . | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 214.0 | Interior | Room 156B | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Wrap 4' Surface | LITHONIA-STL4-27W- 40K | - | - STL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 |
| 215.0 | Interior | Room 156C | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | . | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 216.0 | Interior | Room 170 - Supply Room | 1L 30W LED Linear Board [1× LED DRIVER] | Standard Strip 4' Wall | Do Nothing | 0 | |
| 217.0 | Interior | Boys Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 4 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 218.0 | Interior | Boys Restroom | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| 219.0 | Interior | Boys showers | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | Recessed Can 13? Recessed | GC-9W-PLO-40K-2L | 2 | - 9PLO/840/HYBM (MFG: GC) Qty: 2 |
| 220.0 | Interior | Girls Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | з | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 221.0 | Interior | Girls Restroom | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |



| | | P G5 | MFG: | - | P G5 | MFG: | - | P G5 | MFG: | MFG: | - | MFG: | MFG: | y: 2 | |
|--------------------------------|------------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------|------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|--------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------|---|
| Parts List | PLO/840/HYBM (MFG: GC) Qty: 2 | VOKIT HE 2x4 42L 28W 840 UNV STEF FG: PHI) Qty: 1 | vokit 2x4 42L 28W 840 UNV 0-10 G5 (N II) Qty: 1 | TL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 | VOKIT HE 2x4 42L 28W 840 UNV STEF FG: PHI) Qty: 1 | vokit 2x4 42L 28W 840 UNV 0-10 G5 (N II) Qty: 1 | TL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 | VOKIT HE 2x4 42L 28W 840 UNV STEF FG: PHI) Qty: 1 | vokit 2x4 42L 28W 840 UNV 0-10 G5 (N II) Qty: 1 | vokit 2x4 42L 28W 840 UNV 0-10 G5 (N II) Qty: 1 | TL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 | vokit 2x4 42L 28W 840 UNV 0-10 G5 (N II) Qty: 1 | vokit 2x4 42L 28W 840 UNV 0-10 G5 (A II) Qty: 1 | 8LACD4F12/840B25EC (MFG: ULT) Qty | |
| Installed Qty | - 0 | 15 - E | 2 7 | - | 15 - E | 2 7 | - - | 17 - E | - | 2 | - - | 2 P! F | - | 16 - T | |
| Proposed Solution | GC-9W-PLO-40K-2L | PHILIPS-EVOKIT2X4- 28W-40K-SD | PHILIPS-EVOKIT2X4- 28W-40K-D | LITHONIA-STL4-27W- 40K | PHILIPS-EVOKIT2X4- 28W-40K-SD | PHILIPS-EVOKIT2X4- 28W-40K-D | LITHONIA-STL4-27W- 40K | PHILIPS-EVOKIT2X4- 28W-40K-SD | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-D | LITHONIA-STL4-27W- 40K | PHILIPS-EVOKIT2X4- 28W-40K-D | PHILIPS-EVOKIT2X4- 28W-40K-D | ULT-248-12W-40K-DE | |
| Existing Fixture Attributes | Recessed Can 13? Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Wrap 4' Surface | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Wrap 4' Surface | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Wrap 4' Surface | Lensed Troffer 2x4 Recessed | Lensed Troffer 2x4 Recessed | Standard Strip 4' Chain/Cable | - |
| Existing | 2L 26W CFN DBL TUBE 4PIN N-I [1x MAG ES] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [2x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 3L 25W LF4 T8 [1x ELE T8 IS NP] | 2L 25W LF4 T8 [1x ELE T8 IS NP] | |
| Room | Girls Showers | Room 157 - classroom | Room 157A | Room 157 -Restroom | Room 158 - classroom | Room 158A | Room 158 -Restroom | Room 160 - classroom | Room 160A | Room 160B | Room 160 -Restroom | Room 160D | Room 160E | Room 163A - Receiving | |
| Area | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | Interior | |
| ₽ | 222.0 | 223.0 | 224.0 | 225.0 | 226.0 | 227.0 | 228.0 | 229.0 | 230.0 | 231.0 | 232.0 | 233.0 | 234.0 | 235.0 | |



| Q | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|-------|----------|-------------------------|-------------------------------------|--------------------------------|-------------------------------------|------------------|----------------------------------------------------------------------------------------------------------|
| 238.0 | Interior | Room 163C - Garage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 2 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 239.0 | Interior | Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Wrap 4' Surface | LITHONIA-STL4-27W- 40K | ۲ | - STL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 |
| 240.0 | Interior | Freezer | 2L 15W LL4A T8 [1x ELE T8 IS NP] | Vaportight 4' Surface | LITHONIA-FEM-24W- 40K-LPPFL-STSL | 0 | - FEM L48 4000LM LPPFL WD MVOLT GZ10 40K 80CRI STSL (MFG: LITH) Qty: 1 - FEMSMB (MFG: LITH) Qty: 1 |
| 241.0 | Interior | Refrigerator | 2L 15W LL4A T8 [1x ELE T8 IS NP] | Vaportight 4' Surface | LITHONIA-FEM-24W- 40K-LPPFL-STSL | 0 | - FEM L48 4000LM LPPFL WD MVOLT GZ10 40K 80CRI STSL (MFG: LITH) Qty: 1 - FEMSMB (MFG: LITH) Qty: 1 |
| 242.0 | Interior | Room 162 - Kitchen | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 17 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 243.0 | Interior | Room 162A | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | З | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 244.0 | Interior | Room 162B - Restroom | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Wrap 4' Surface | LITHONIA-STL4-27W- 40K | . | - STL4-30L-EZ1-LP840 (MFG: LITH) Qty: 1 |
| 245.0 | Interior | Room 162E - Storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 3 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 246.0 | Interior | Room 154 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 36 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 247.0 | Interior | Room 159 - cafeteria | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-SD | 10 | - EVOKIT HE 2x4 42L 28W 840 UNV STEP G5 (MFG: PHI) Qty: 1 |
| 248.0 | Interior | Room 159C - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | ÷ | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 249.0 | Interior | Room 159B - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | ÷ | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 250.0 | Interior | Room 159A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | . | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 251.0 | Interior | Room 154A - storage | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | ю | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| 252.0 | Interior | Music Room Hallway | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | 2 | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |

Page 17 of 19



| | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|--------|--------------------|-----------------------------------|-----------------------------------------------|--------------------------------|---------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Interi | or | Room 153C - Music Room Storage | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Surface | ESI-K-24LT-F4N0-2S- 40-FR-D | 4 | - K-24LT-F4N0-2S-40-FR-D (MFG: ESI) Qty: 1 |
| Inter | ior | Room 153B | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | N | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| Inte | rior | Room 153 - Music Room | 3L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Surface | ESI-K-24LT-F4N6-2S- 40-FR-SD | 15 | - K-24LT-F4N6-2S-40-FR-SD (MFG: ESI) Qty: 1 |
| Inte | rior | Room 151B - Gym | 6L 25W LF4 T8 [2x ELE T8 IS NP] | Highbay 1x8 Surface | LITHONIA-IBG-105W- 50K-AFL-GND-RIO- WGX-DWH | 6 | - IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI NLTAIR2 RIO WGX DWH (MFG: LITH) Qty: 1 - IBAC120-M100 (MFG: LITH) Qty: 1 |
| Inte | Lior | Room 151A - Gym | 6L 25W LF4 T8 [2x ELE T8 IS NP] | Highbay 1x8 Surface | LITHONIA-IBG-105W- 50K-AFL-GND-RIO- WGX-DWH | 12 | - IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI NLTAIR2 RIO WGX DWH (MFG: LITH) Qty: 1 - IBAC120-M100 (MFG: LITH) Qty: 1 |
| Inte | erior | Room 152 - gym office | 3L 25W LF4 T8 [2x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILIPS-EVOKIT2X4- 28W-40K-D | ę | - EvoKit 2x4 42L 28W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| Inte | erior | Room 155A - gym storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | ю | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| Inte | erior | Room 155B - gym storage | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | ю | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| Inte | srior | Cafeteria hallway | 2L 25W LF4 T8 [1x ELE T8 DIM NP] | Lensed Troffer 2x4 Recessed | PHILLIPS-EVOKIT2X4- 25W-40K | 5 | - EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| Inte | erior | Cafeteria hallway | 2L 25W LF4 T8 [1x ELE T8 IS NP] | Lensed Troffer 2x4 Recessed | PHILLIPS-EVOKIT2X4- 25W-40K | ω | - EvoKit 2x4 36L 25W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| Inte | srior | Cafeteria hallway | 1L 40W LED Linear Board [1x LED DRIVER] | Lensed Troffer 2x2 Recessed | PHILIPS-EVOKIT2X2- 22W-40K-D | 0 | - EvoKit 2x2 31L 22W 840 UNV 0-10 G5 (MFG: PHI) Qty: 1 |
| Inte | erior | Door 5 vestibule | 1L 20W LED Array [1x LED DRIVER] | Canopy 10" x 10" Surface | Do Nothing | 0 | |
| Inte | erior | Oil storage | 1L 23W CFS-M Triple tube [0x Null | Jelly Jar Surface | GC-17W-A21-40K-1L | 2 | - 17A21/840/277V/DIM (MFG: GC) Qty: 1 |
| Me | erior - zzanine | Room 200 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | ъ | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |



| ₽ | Area | Room | Existing | Existing Fixture Attributes | Proposed Solution | Installed Qty | Parts List |
|-------|-------------------------|----------------------------|------------------------------------|--------------------------------|----------------------|------------------|-----------------------------------------|
| 265.0 | Interior - Mezzanine | Room 200A - crawl space | 1L 60W INCS-M A19 [0x NULL] | Porcelain Socket Wall | GC-VS-9W-A19-40K-1L | ۲ | - 9A19DIM/840/R (MFG: GC) Qty: 1 |
| 266.0 | Interior - Mezzanine | Room 201 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 10 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 267.0 | Interior - Mezzanine | Room 201A | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 10 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 268.0 | Interior - Mezzanine | Room 202 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 5 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| 269.0 | Interior - Mezzanine | Room 200B - crawl space | 1L 60W INCS-M A19 [0x NULL] | Porcelain Socket Wall | GC-VS-9W-A19-40K-1L | ٢ | - 9A19DIM/840/R (MFG: GC) Qty: 1 |
| 270.0 | Interior - Mezzanine | Room 203 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Surface | ULT-248-12W-40K-DE | 7 | - T8LACD4F12/840B25EC (MFG: ULT) Qty: 2 |
| | | | | | | | |



DATA SHEET

Easyfit Bluetooth® Single / Double Rocker Pad

ESRPB / EDRPB

Easyfit Single / Double Rocker Pad for BLE (ESRPB / EDRPB) are universal energy harvesting wireless switches implementing the 2.4 GHz Bluetooth Low Energy (BLE) radio standard.

ESRPB and EDRPB are based on the maintenance free, self-powered Bluetooth Low Energy (BLE) pushbutton transmitter module PTM 215B and delivered as single rocker (ESRPB) and double rocker (EDRPB) variants using the US rocker pad form factor.

The PTM 215B module within ESRPB and EDRPB contains an electro-dynamic energy transducer which is actuated by the rocker movement.

Whenever a rocker is pushed down or released, electrical energy is created and a set of BLE advertising frames is transmitted identifying the rocker status (pushed or released).



EASYFIT

by EnOcean

"Long" or "Short" rocker press (the time between pushing and releasing the rocker) can be calculated by the receiver. This enables switching, dimming control or jalousie control including slat action.

Ordering Information

| ТҮРЕ | ORDERING CODE |
|-------------------------|---------------|
| Single Rocker Pad ESRPB | ESRPB-W-EO |
| Double Rocker Pad FDRPB | FDRPB-W-FO |

Feature Overview

| Radio Transmitter | PTM 215B pushbutton module with integrated antenna |
|-----------------------------|-------------------------------------------------------------------------|
| Energy Source | Electro-dynamic energy generator, maintenance free |
| Frequency / Protocol | 2.4 GHz / Bluetooth Low Energy (BLE) |
| Range | Within one room (up to 10 m line of sight) |
| Channels | 2 or 4 (single or double rocker with medial position, pressed/released) |
| Size of Single Rocker Pad | 4.95" H x 3.21" W x 0.74" D (126mm x 82mm x 19mm) |
| Size of Double Rocker Pad | 4.95" H x 4.52" W x 0.72" D (126mm x 115mm x 18mm) |
| Weight of Single Rocker Pad | 3.9 oz (112g) |
| Weight of Double Rocker Pad | 5.3 oz (150g) |
| Mounting | Screwing onto flat surface (screws included) |
| Operating conditions | Temperature: -25 +65°C |
| | Humidity: 0 95% r.h., non-condensing (dry environment only) |
| Lifetime | > 50.000 actuations (switching cycles) according to EN 60669 |
| Approvals | FCC, IC, ACMA |



Catalog Number

Date:

Project

OVERVIEW

The nLight[®] AIR rPODB xS Series WallPods[™] are wireless, battery-powered wall switches that provide two and four preset scene control, with optional single zone on/off/dimming control. A true wire-free switch, these single gang decorator style devices have soft-click push-buttons and a green LED indicator for each button that light up to confirm when pressed. The rPODB wall switches communicate with other nLight AIR devices via radio frequency (RF) after assigning to a group with the Clairity Pro smartphone app. A batterypowered wall switch can work with any nLight AIR enabled fixture or power pack group to provide preset scene control and optionally on/off/dimming control of a single zone.

FEATURES

- Powered with three off-the-shelf AAA Lithium size batteries and rated for 10 years of normal use, minimizing battery replacement (Battery replacement with alkaline batteries does not guarantee a 10-year run time.)
- Batteries included and preinstalled...Just unbox and mount
- Communicates with nLight[®] AIR devices via radio frequency (RF) in the 900MHz spectrum
- Soft-click push-button control with LED feedback upon press
- Custom button engraving at no charge (WH, IV, AL GY units only)
- 2 or 4 preset scene control
- Maximum of 4 total preset scenes per nLight Air group
- All devices within nLight Air group are controlled by the preset scene
- Default preset scenes after assigning preset scene selectors to a nLight Air group using Clairity Pro: 100% ("2S" & "4S" Options)
 - 66% ("2S" & "4S" Options)
 - 33% ("4S" Option Only)
 - Off ("4S" Option Only)
- Presets can be overridden through 5-10 second push-and-hold of appropriate preset scene button, storing the current individual fixture/power pack light level as the new preset scene
- Optional single zone on/off and raise/lower control ("DX" option)
- Wireless multi location preset scene recall and on/off/dimming control if multiple preset scene switches are part of the same nLight Air group, the switches will recall the same preset scenes (i.e. multi-way control)

Warranty

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

nLight, nLight AIR and the Acuity Controls and Acuity Brands logos are trademarks of Acuity Brands. Bluetooth is a trademark of Bluetooth SIG, Inc. used by Acuity Brands under license. Apple and the Apple logo are trademarks of Apple Inc. Android and Google Play are trademarks of Google, Inc. Other trademarks are property of their respective owners.

ORDERING INFORMATION



nLight® AIR rPODB xS Battery powered preset scene Wall Switch



Note: nLight® AIR devices are only compatible with other nLight AIR enabled devices; and is not cross compatible with other nLight product lines at this time.

| | | | | | | | Ex | ample: RPODB 4S DX WH G2 |
|--------|--------|---------------------------|---------|-----------------------------|-------|--------------|------|----------------------------|
| | | | | | | | | |
| Series | # of S | cenes | Dimmin | g Control | Color | | Gene | ration |
| RPODB | 25 | Two Preset Scene Control | [blank] | Preset Scenes Only | WH | White | G2 | Generation 2 Compatibility |
| | 4S | Four Preset Scene Control | DX | Preset Scenes + Single Zone | IV | lvory | | |
| | | | | Un/Uff/Raise/Lower Control | AL | Light Almond | | |
| | | | | | GY | Gray | | |

Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone: 800.535.2465 www.acuitybrands.com/nLight © 2020 Acuity Brands Lighting, Inc. All rights reserved. Rev. 02/24/20



SPECIFICATIONS

| Electrical | Battery Type | 3 AAA Lithium Batteries (included) |
|---------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| | Battery Life | 10 years (with Lithium batteries) |
| Mechanical | Dimensions | 2.74"H x 1.68"W x 1.63"D (70mm x 43mm x 41mm) |
| | Weight | 4.25 oz |
| | Mounting | Single-Gang Switch Box or Low Voltage Ring |
| | Standards/ Ratings | RoHS |
| Environmental | Warrantied Operating Temperature | -40°F to 140°F (-40°C to 60°C) |
| | Relative Humidity | 20 to 75%, Non-Condensing |
| Wireless | Radio Frequency | Dual Radio: 900MHz & 2.4GHz |
| | RF Transmit Power | 900MHz: +20dBm; 2.4GHz: Variable |
| | Wireless Standard | 900MHz: IEEE 802.15.4-based |
| | | 2.4GHz: Version 4.0+ of the Bluetooth Specification |
| | Security | Application Data Encryption: AES-128 bit |
| | | Mutual Entity Authentication |
| | | Message Confidentiality |
| | | Message Authentication and Replay Prevention |
| | | Limited Anonymity |
| | | Complies with California Civil Code Title 1.81.26, Security of Connected Devices, approved under Senate Bill No. 327 (2018) |
| | Standards/ Ratings: | FCC, IC |

PROGRAMMING

- Add preset scene selector to the appropriate nLight Air group using the Clairity Pro app. If the unit includes the "DX" option, assign the switch to a zone for on/off/raise/ lower control. After assigning, preset scenes buttons will automatically operate under the following default settings:
 - rPODB 2S (DX)
 - Preset Scene button 1 is set to 100%
 - Preset Scene button 2 is set to 66%
 - rPODB 4S (DX)
 - Preset Scene button 1 is set to 100%
 - Preset Scene button 2 is set to 66%
 Preset Scene button 3 is set to 33%
 - Preset Scene button 3 is set to 33%
 - Preset Scene button 4 is set to OFF
- The preset scene levels can be changed by first adjusting the light level of the nLight Air devices in the group with either the unit's raise/lower buttons (i.e. rPODB 2S DX, rPODB 4S DX), via additional on/off/raise/lower rPODB in the group, or through SensorView if the nLight Air group is networked to an nLight ECLYPSE™. All devices in the nLight Air group (i.e. nLight Air enabled fixtures, power packs) can be set to the same or different levels, and ALL devices in the group must be included in the preset scene (i.e. devices must be set to off, or a level between 1 100%, and cannot be excluded from the preset scene).
- Once lights are at a desired level, hold the appropriate preset scene button for 5 seconds. Once the button begins flashing rapidly, release to save the new preset scene. All lights will dim down and back up to identify that the preset scene level has saved successfully.



CUSTOM ENGRAVING

- Default button labeling is shown below.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at:
- https://www.acuitybrands.com/brands/lighting-controls/-/media/abl/acuitybrands/files/nlight/ngrave-110-pdf.pdf.
- To ensure color uniformity, ordering templates facilitate specifying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation

DEFAULT LABELING





rPODB 2S 2-Preset Scene Control Default Scenes: 1 - 100% 2 - 66%





rPODB 4S 4-Preset Scene Control 4-P Default Scenes: with 1 - 100% 2 - 66% 3 - 33% 4 - Off



ON

3 - 33% 4 - Off

INSTALLATION OVERVIEW

Installation of the rPODB wall switch is simple, straight forward, and quick! A truly "wire-free" installation with preinstalled batteries and embedded nLight AIR radio. Follow the simple steps below to perform the mechanical installation of the rPODB Wall Switch.

Installation

- 1. Install the rPODB into a single gang box just like your typical wall switch
- 2. No wiring needed, and can be installed retainer first, or switch and retainer together
- 3. Check to make sure the rPODB is secure in retainer clip once installed
- 4. Screw down wall plate DONE!





www.ledvanceUS.com/luminaires

SYLVANIA Luminaires UltraLED™ CCT Selectable Canopy

Application

The Canopy luminaires are environmentally preferable LED alternatives to traditional HID luminaires, offering up to 79% in energy savings. Ideal in place of traditional luminaires, or as new installations, the Canopy series is offered in four wattages/lumen packages for illuminating parking garages, covered exterior corridors or walkways and stairwells.

Benefits and Features

- Slim, lightweight design
- High efficacy meets DLC requirements and increases rebate opportunities
- CCT selectability increases luminaire versatility
- Up to 135 LPW
- 3000K, 4000K or 5000K CCT Selectable
- CRI >80
- Offered in 20, 40, 60, and 75 watts
- Two color options: bronze or white
- Garage and Canopy optics
- Energy savings up to 79%

Electrical

- 120-277Vac
- Power factor >90%
- THD <20%
- 0-10V dimmable

Rated Life

- 100,000 hours (L₇₀)

Warranty

- 5-year
- NLB Trusted Warranty Program

Ambient Operating Range

- -30°F to +122°F (-22°C to +50°C)

| Item # | |
|---------|--|
| Туре | |
| Project | |
| Notes | |
| | |
| Date | |



Wattage Comparison

Traditional

| | nautuonai | | | |
|-----------------------|-------------------|-----------------------|-------------------|--|
| Traditional Source | System Wattage | LED System Wattage | Energy Savings | |
| 35W HPS | 42 | 20 | 52% | |
| 50W HPS | 62 | 20 | 68% | |
| 70W HPS | 91 | 20 | 78% | |
| 70W HPS | 91 | 40 | 56% | |
| 100W HPS | 120 | 40 | 67% | |
| 100W MH | 130 | 40 | 69% | |
| 150W HPS | 170 | 40 | 76% | |
| 150W MH | 188 | 40 | 79% | |
| 150W HPS | 170 | 60 | 65% | |
| 150W MH | 188 | 60 | 68% | |
| 175W MH | 210 | 60 | 71% | |
| 250W MH | 290 | 60 | 79% | |
| 150W HPS | 170 | 75 | 56% | |
| 150W MH | 188 | 75 | 60% | |
| 175W MH | 210 | 75 | 64% | |
| 250W MH | 290 | 75 | 74% | |

Certifications and Listings

- cULus rated for wet locations
- RoHS

FCC
DLC Premium

- IP65
- Installation
- Luminaire mounts to recessed outlet box or can be pendant mounted (accessories not included).





LEDLUM097R4 6-22



Ordering Guide

| CANOPYS | 4X | 1 | XX | UNV | D | 8 | SC2 | 1 | X5 | 1 | BZ | 1 | Х |
|---------------------------------|----------------|---|---------------|----------|-----------|---------|------------------------|---|--------------------|---|--------------|---|---------------------|
| Product Name | Generation | | Wattage | Voltage | Dimming | CRI | Color Temp | | Distribution | | Color/Finish | | Options |
| CANOPYS = UltraLED [™] | 4A = 20 or 40W | | 20 = 20 watts | UNV = | D = 0-10V | 8 = >80 | SC2 = selectable 3000, | | G5 = Garage Optics | | BZ = Bronze | | Blank = no option |
| CCT Selectable Canopy | versions | | 40 = 40 watts | 120-277V | | | 4000 or 5000K CCT | | C5 = Canopy Optics | | WH = White | | D = Motion/Daylight |
| Luminaire | 4B = 60 or 75W | | 60 = 60 watts | | | | | | | | | | Sensor |
| | versions | | 75 = 75 watts | | | | | | | | | | M = Motion Sensor |
| | | | | | | | | | | | | | P = Photocontrol |

Ordering Information

| | | | Input | | | | | Total | | | | |
|--------|-------------------------------|-------|---------|---------|-----|---------------------|--------------|---------|------|---------|-----------------|--------|
| Item | Ordering | Power | Voltage | | | Color | | Fixture | | | | |
| Number | Abbreviation | (W) | (V) | Dimming | CRI | Temp | Distribution | Lumens | LPW* | DLC | Options | Finish |
| 62223 | CANOPYS4A/020UNVD8SC2/C5/BZ | 20 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 2500 | 125 | Premium | - | Bronze |
| 61312 | CANOPYS4A/020UNVD8SC2/C5/WH | 20 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 2500 | 125 | Premium | - | White |
| 62224 | CANOPYS4A/020UNVD8SC2/G5/BZ | 20 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 2500 | 125 | Premium | - | Bronze |
| 62225 | CANOPYS4A/020UNVD8SC2/G5/BZ/D | 20 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 2500 | 125 | Premium | Motion/Daylight | Bronze |
| | | | | | | | | | | | Sensor | |
| 62226 | CANOPYS4A/040UNVD8SC2/C5/BZ | 40 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 5000 | 125 | Premium | _ | Bronze |
| 61313 | CANOPYS4A/040UNVD8SC2/C5/WH | 40 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 5000 | 125 | Premium | - | White |
| 62227 | CANOPYS4A/040UNVD8SC2/G5/BZ | 40 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 5000 | 125 | Premium | - | Bronze |
| 62228 | CANOPYS4A/040UNVD8SC2/G5/BZ/D | 40 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 5000 | 125 | Premium | Motion/Daylight | Bronze |
| | | | | | | | | | | | Sensor | |
| 62229 | CANOPYS4B/060UNVD8SC2/C5/BZ | 60 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 7500 | 125 | Premium | - | Bronze |
| 61314 | CANOPYS4B/060UNVD8SC2/C5/WH | 60 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 7500 | 125 | Premium | - | White |
| 62230 | CANOPYS4B/060UNVD8SC2/G5/BZ | 60 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 7500 | 125 | Premium | - | Bronze |
| 62231 | CANOPYS4B/060UNVD8SC2/G5/BZ/D | 60 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 7500 | 125 | Premium | Motion/Daylight | Bronze |
| | | | | | | | | | | | Sensor | |
| 61309 | CANOPYS4B/075UNVD8SC2/C5/BZ | 75 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 9375 | 125 | Premium | - | Bronze |
| 61315 | CANOPYS4B/075UNVD8SC2/C5/WH | 75 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Canopy | 9375 | 125 | Premium | - | White |
| 61310 | CANOPYS4B/075UNVD8SC2/G5/BZ | 75 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 9375 | 125 | Premium | - | Bronze |
| 61311 | CANOPYS4B/075UNVD8SC2/G5/BZ/D | 75 | 120-277 | 0-10V | 80 | 3000, 4000 or 5000K | Garage | 9375 | 125 | Premium | Motion/Daylight | Bronze |
| | | | | | | | | | | | Sensor | |

*LPW is calculated at 3000K

Physical Information

| Lamp Description | (A) Length in | (B) Width in | (C) Height in |
|-------------------------------------|---------------------|--------------------|---------------------|
| UltraLED Canopy 20 and 40W versions | 7.992 | 7.992 | 3.661 |
| UltraLED Canopy 60 and 75W versions | 10 | 10 | 4.173 |
| | | | |





Accessories

| Item | Ordering | |
|--------|-------------------------|------------------------------|
| Number | Abbreviation | Description |
| 60683 | CANOPY3A/MTGPLATE/12/BZ | 12.5" Mounting Plate, Bronze |
| 60684 | CANOPY3A/MTGPLATE/16/BZ | 16" Mounting Plate, Bronze |
| 60105 | HIBAY2A/REMOTE | Sensor Remote |
| 60685 | CANOPY3A/MTGPLATE/12/WH | 12.5" mounting plate, white |
| 60686 | CANOPY3A/MTGPLATE/16/WH | 16" mounting plate, white |

Sensor Options Information

| Motion | 100% Lumen output |
|------------------------|-------------------|
| \geq 5 min no motion | 30% Lumen output |
| ≥60 min no motion | Off Lumen output |

Stand-by power: <1W

Detection area options: 25%/50%/75%/100%*

Hold time options: 5s/30s/1min/3min/5min/10min/20min/30min

Daylight threshold options: 2Lux/10Lux/30Lux/50Lux 80Lux/120Lux/Disable

Stand-by period options: 0s/10s/30s/1min/5min/10min/30min/+∞ Mounting height: Max - 49ft (15m)

Dimming Level: 10%, 20%, 30%, 50%

*25% and 50% can only be accessed via the remote (NAED 60105).

Detection Range*



Graph is shown at 100% detection range; units are shown in meters.

Name:

Email:

LEDVANCE LLC 200 Ballardvale Street Wilmington, MA 01887 USA Phone 1-800-LIGHTBULB (1-800-544-4828) www.ledvanceUS.com

SYLVANIA and LEDVANCE are registered trademarks. All other trademarks are those of their respective owners. Licensee of product trademark SYLVANIA in general lighting. Specifications subject to change without notice.





© 2022 LEDVANCE LLC





FEATURES

- · Energy efficient replacement from fluorescent technology
- 150,000 hr + L70
- Seoul Semiconductor LEDs
- Philips Xitanium / Sylvania Optotronic LED Drivers
- Dimming options available upon request
- Wide range of lumen and wattage packages available
- 135 lumen per watt delivered / 82+ CRI
- Color tune with simple controls systems

TECHNICAL INFORMATION

- Housing: All aluminum construction minimizes weight and maximizes thermal performance of the LED light engine.
- Finish: All parts are painted with a matte white paint to provide soft, even illumination.
- Fixture Mounting: Fixture is designed for lay-in, recessed applications only.
- LEDs: Best efficacy of mid-level power LEDs, 80+ CRI, utilizes aluminum substrate to provide superior thermal management.

INSTALLATION POINTS

RETROFIT INSTRUCTIONS

• The existing door frame must be removed along with all of the existing fluorescent components in the fixture. A hinge rail is inserted between the ceiling grid and fixture housing at each end. The hinge tabs on the retrofit insert are engaged with the slots in the hinge rails. With the insert hanging open, the electrical connection can be made and ground strap installed. The final step is to close the new LED door and secure the latches.

| imensions | - | | | |
|--------------|---------|------------|--------|--|
| Retrofit | Con Con | 3.50* | i lost | |
| Vevv Fixture | - | 4 3.75* | | |
| - | 23.75 | | | |





MADE IN THE USA

LX 17001



For proper Air Handling on an LX Kit Side Rails are omitted.











ORDERING INFORMATION







....



FEATURES & SPECIFICATIONS

INTENDED USE — Ideal one-for-one replacement of conventional HID and fluorescent high bay systems. Applications include warehousing. manufacturing. gymnasiums, and other large indoor spaces with mounting heights up to 60'. Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. <u>Click here for Acrylic-Polycarbonate Compatibility table for</u> <u>suitable uses</u>.

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. <u>Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components</u>.

CONSTRUCTION — Structural elements such as the channel and end caps are fabricated from steel for maximum rigidity, IK ratings page 8. Wireguard attachment points provided. Lightweight aluminum heat sink designed to perform in ambient temperatures up to 55 °C for maximum naturally convective cooling. Optional rotatable outer light modules available when ROTO option is specified, see page 4 for additional details.

OPTICS — General, narrow, wide and aisle distributions available to meet both horizontal and vertical light level requirements. Diffuse lens standard to provide glare control and LED protection. Optics are IPSX rated.

Patent-pending Acuity-exclusive Fresnel pattern molded into lens for crisp distributions and interchangeability in the field.

ELECTRICAL — L92 at 60,000 hours. Utilizes a 90°C case temperature driver for maximum life at high temperatures. 0.90 power factor. Luminaire Surge Protection Level: Designed to withstand up to 6kV/3kA per ANSI (32.77-5-2015. Luminaire Surge Protection Level: Designed to withstand up to 10kV/5kA per ANSI (32.77-5-2015, optional. Available as 120-277V or 347-480V input.

0-10V dimming standard for a dimming range of 100% to 10%.

WIRELESS NETWORKING — nLight* AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. Integrated smart sensors or dimming and switching modules must be part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes this a great solution for any application.

INSTALLATION — Suitable for suspension by chain, cable, surface mounting when using compatible surface mount bracket (THUN accessory ordered separately), and hook monopoint or single (pendant) mount. To maintain ambient listing, fixture should be mounted at a minimum plenum height of 18". LISTINGS — CSA certified to US and Canadian safety standards. Damp location listed. Suitable for ambient temperatures from -40°F (-40°C) to 131°F (55°C) when suspended 18" from ceiling. The Bluetooth* word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Acuity Brands is under license. Other trademarks and trade names are those of their respective owners.

DesignLights Consortium[®] (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to <u>www.acuitybrands.com/buy-american</u> for additional information.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Stock configurations are offered for shorter lead times:

| Standard Part Number | | Stock Part Number | DLC QPL Product ID | DLC Premium? |
|------------------------------------|-----------------|----------------------|-----------------------|-----------------|
| IBG 12000LM SEF AFL GND MVOLT GZ10 | 40K 80CRI DWH | IBG 12L MVOLT | PAMMN2VX | \checkmark |
| IBG 15000LM SEF AFL GND MVOLT GZ10 | 40K 80CRI DWH | IBG 15L MVOLT | P3G6HADN | \checkmark |
| IBG 18000LM SEF AFL GND MVOLT GZ10 | 40K 80CRI DWH | IBG 18L MVOLT | P851GVEP | \checkmark |
| IBG 24000LM SEF AFL GND MVOLT GZ10 | 40K 80CRI DWH | IBG 24L MVOLT | PZBJQY55 | \checkmark |
| IBG 12000LM SEF AFL GND MVOLT GZ10 | 50K 80CRI DWH | IBG 12L MVOLT 5K | P7TZZ4ZV | \checkmark |
| IBG 15000LM SEF AFL GND MVOLT GZ10 | 50K 80CRI DWH | IBG 15L MVOLT 5K | PMXBGZJS | \checkmark |
| IBG 18000LM SEF AFL GND MVOLT GZ10 | 50K 80CRI DWH | IBG 18L MVOLT 5K | P85EZXU7 | √ |
| IBG 24000LM SEF AFL GND MVOLT GZ10 |) 50K 80CRI DWH | IBG 24L MVOLT 5K | PQ5CSK48 | \checkmark |

| ® | Number | | | |
|---|--------|--|--|--|
| | Notes | | | |
| | Туре | | | |
| | | | | |

-RFAM®



LED High Bay





Embed nLight controls today. Prepare for tomorrow.

| Νον | N | Tom | orrow |
|-----|-------------------------|--------------|--------------------|
| 8 | User-friendly install | s الم | icalability |
| ** | Enhanced energy savings | ء ري | pace configuration |
| | Code compliance | I 1 F | uture-ready |

****** Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight[®] or XPoint[™] Wireless control networks marked by a shaded background*

To learn more about A+, visit <u>www.acuitybrands.com/aplus</u>.

*See ordering tree for details



| | A+ Capable options indicated |
|---------|------------------------------|
| Caras V | by this color background. |

Γ

| ORDERIN | IG INFORMATION Lead ti | Example: IBG2 | 24000LM SEF AFL | GND MVOLT GZ | 10 40K 80CRI DWH | | | |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------|------------------------------------------------|
| Cariaa | | Performance | 1 | Distribution | V-la | Duituur | Color | Coloring |
| IBG | 8000LM 8,000 lumens ‡ 12000LM 12,000 lumens 15000LM 15,000 lumens 15000LM 15,000 lumens 24000LM 8,000 lumens 30000LM 24,000 lumens 30000LM 30,000 lumens 36000LM 36,000 lumens 36000LM 36,000 lumens 48000LM 48,000 lumens ‡ 60000LM 60,000 lumens ‡ 72000LM 72,000 lumens ‡ | SEF Standard efficiency HEF Premium efficiency | AFL Acrylic, frosted ACL Clear acrylic PCL Clear polycarbonate PFL Semi-diffuse polycarbonate L/LENS L/LENS Less lens ‡ ATL Acrylic textured lens PTL Polycarbonate textured lens Variationate | ND Narrow WD Wide ADL Rack | WOLT 120-277V HVOLT 347-480V ‡ 120 120V 208 208V 240 240V 277 277V 347 347V ‡ 480 480V ‡ | GZ10 0-10V dimming | 25K 3500 K 40K 4000 K 50K 5000 K | 70CRI 70 CRI 80CRI 80 CRI 90CRI 90 CRI ‡ |

| Options | | : | | Finish | |
|---------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|
| BAA | Buy America(n) Act Compliant | Individual Controls (| <u>LSXR):</u> ‡ | DNA | Natural |
| Emergency bat | teries ‡ | LSXR6 | 360° integral high mount motion sensor with standard on/off operation (formerly LAOZU) LINK | DUU | aluminum |
| E10WCP | 10W emergency battery pack, Certified in CA Title 20 MAEDBS ‡ | LSXR6 HL | 360° integral high mount motion sensor with high/low/(Off) occupancy operation (formerly LAHOSZU) (For High/Low only, bypass relay) | MB | Matte black |
| IE20WCPHE | lota 20W emergency battery pack, Certified in CA Title 20 MAEDBS ‡ | LSXR6 P LSXR6 ADC | 360° integral high mount motion sensor with On/Off switching photocell (formerly LAPZU) 360° integral high mount motion sensor with dimming & switching photocell (formerly LAMOSZU) | | |
| IE30WCPHE | lota 30W emergency battery pack, Certified in CA Title 20 MAEDBS ‡ | LSXR6 ANL | 360° integral high mount motion sensor with High/Low (Off) occupancy dimming & auto-dimming photocell; | | |
| | | *For 360° integral Lo | w Mount sensors, replace "6" in nomenclature with "10". For High Mount Aisleway sensors, replace | | |
| SPD | Surge protection device # | "6" IN NOMENCIATURE | with "50". | | |
| ETS | Generator transfer device ‡ | LA. LOAN TO ADC | | | |
| SF | Single fuse ‡ | | | | |
| DF | Double fuse ‡ | Individual Controls v | vith Bluetooth Programming (Haleon) ‡ | | |
| OUTCTR | Wiring leads pulled through back | HLN45 OCC | 360° integral high mount motion sensor: Bluetooth enabled LINK (formerly HLN360) | | |
| OCS | RELOC® OnePass® selectable cable 6' | HLN45 HL | 360° integral high mount motion sensor with High/Low (Off) occupancy detection; Bluetooth enabled (formerly HLN360HL) | | |
| OCS4C | RELOC® One Pass® selectable cable 6' | HLN45 ADC | 360° integral high mount motion sensor. On/Off occupancy detection with auto-dimming photocell; Bluetooth enabled (formerly HLN360ADC) | | |
| 0CU | RELOC® OnePass® unselectable cable 6' installed (must specify tap position) ‡ | HLN45 ANL | 360° integral high mount motion sensor with High/Low (Off) occupancy dimming & auto-dimming photocell; Bluetooth enabled (formerly HLN360ANL) | | |
| IMP | Integrated modular plug ‡ | *For integral Aisle M | ount sensors, replace "45" in nomenclature with "45A". | | |
| RRL_ | RELOC®-Ready luminaire. (Not | EX: HLN45A ADC | 200° bigh mount motion concer dimming only (nhotocall disabled) are usized UI 024 listed (not | | |
| | available with Haleon sensor options) See page 11 for ordering information ‡ | | available with battery pack or ETS) ‡ | | |
| WGX | Standard wire guard, installed (not available with Haleon sensor) | *For Low Mount sen nLight Wired Netwo | sor, replace "6" in nomenclature with "10" r <u>k Controls</u> | | |
| ROTO | Rotateable optics ‡ | NCMB6 | nLight High Mount Occupancy Sensor with Dimming, pre-wired LINK (Includes dimming Power | | |
| JP | Job Pack Packaging (Consult table on | NDD16 D | rack) i ni jaht dimming & switching module LINK t | | |
| Condicate + | page 10 for details) | *For 360° integral L | Magne dimining & switching module <u>Live</u> + w Mount sensors, replace "6" in nomenclature with "10". For high Aisle Mount sensors, replace "6" | | |
| CDCRW | 6' white damp location cord with | with "50". | winduntschsors, replace of infinitenciatare with 10.10 mgh Alsie Mount schsors, replace o | | |
| CI 3DW | straight blade plug (voltage will match fixture) | Ex: NCMB50 | | | |
| CPTLW | 6' white damp location cord with twist- | nLight AIR Wireless (| <u>Controls</u> ‡ | | |
| CUDU | lock plug (voltage will match fixture) | NLTAIR2 RMSOD45 | nLight AIR (wireless) gen 2 control device with high mount occupancy and daylight sensor LINK | | |
| CNPW | 6' white cord, no plug | NLIAIR2 RIO | nLight AIR (wireless) gen 2 control device (dimming & switching) LINK | | |
| CNP4CW | 6 white cord with 4 conductors, no plug (for use when unswitched hot is required for battery pack) | *For 360° integral Lo with "45A". Ex: NLTAIR2 RMSOD4 | w Mount sensors, replace "45" in nomenciature with "7". For high Aisle Mount sensors, replace "45" ISA | | |
| CNP5CW | 6' white cord, 5 conductor, no plug, damp location | **For guidance on w | hich sensors to use with emergency generator power, consult table on page 9. | | |
| CNP5CDW | 6' white cord, 5 conductors (for bringing dimming leads out of fixture) | | | | |
| | | | | | |

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart, page 4. Options are sorted alphanumerically.

🚺 LITHONIA LIGHTING

See Accessories and option value restrictions on next page

IBG

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com



| Accessories: Or | der as separate catalog number. | | | | | |
|------------------|-----------------------------------------|-------------------|--------------------------------------|-------------|------------------------------------|----------------------------|
| <u>Mounting:</u> | | Cord sets and set | nsors for IMP option: | Wire guards | (gloss white*) - not available wit | h Haleon sensor |
| IBAC120 M100 | Aircraft cable 10' with hook (one pair) | CS1WIMP | Straight plug, 120V | | SEF Lumen Packages | HEF Lumen Packages |
| IBAC240 M75 | Aircraft cable 20' with hook (one pair) | CS3WIMP | Twist-lock, 120V | WGIBG22 | 8000LM, 12000LM, 15000LM | 8000LM |
| IBHMP | Hook monopoint | CS7WIMP | Straight plug, 277V | WGIBG24 | 18000LM, 24000LM, 30000LM | 12000LM, 15000LM |
| HBBS36 | Chain hanger with chain, 36" (one pair) | CS11WIMP | Twist-lock, 277V | WGIBG26 | 36000M | 18000LM, 24000LM, 30000LM, |
| IBGACVH | Aircraft 10' V hanger (one pair) | CS25WIMP | Twist-lock 347V | | | 36000LM |
| IRCOMPHR | Pendant monopoint splice hox | CS93WIMP | 600V SO white cord, no plug | WGIBG44 | 48000LM, 60000LM | - |
| | includes side covers (3/4" hub) for use | 000000 | (no voltage required) | WGIBG46 | 72000LM | 48000LM, 60000LM, 72000LM |
| | with OUTCTR option, not available with | CS97WIMP | Twist-lock 480V | *For DNA w | ire guards, add DNA to end of nom | enclature. Ex: WGIBG26DNA |
| | BPK option # | MSIIMPIBG | Aisle sensor for use with IMP option | *For MB wir | e guards, add MB to end of nomer | clature. Ex: WGIBG26MB |
| THUN | Tong hanger bracket (order 2 per | MSI360IMPIRG | 360° sensor for use with IMP ontion | | | |
| | fixture) ‡ | *Dess Cuture and | st he and and with IMD antian when | | | |
| | | "Base fixture mu | ist be ordered with IMP option when | | | |
| | | orgering this a | cessory. | | | |

CORD SET ORDERING INFORMATION 4

Cord sets cannot be ordered as accessories

| Plug Option Plug | | Plug typ | Plug type | | Amperage** | | Gauge | | # of conductors | | Color | | Location | | Length | |
|------------------|-----------------------------|---------------------|-----------------------------------------------------------------------------------------|----------------|--------------------|---------------------------|----------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|---------|------------------|------------------------------------------------|--------------------------------------------------------------|--|
| CNP CP | Cord Only Cord with Plug | (blank) TL SB | No Plug Option (for Cord Only option) Locking Type Straight blade* | (blank) 20A | 15 amps 20 amps | (blank) 12 14 16 | 18 gauge standard 12 gauge 14 gauge 16 gauge | (blank) 4C 5C 5CD **** | 3 conductors (blk/ wht/grn) 4 conductors; Use with Battery option when unswitched hot is needed 5 conductors; Use when fixture has 2 drivers and separate operation is required 5 conductors; Use with dimming driver when dimming leads are desired (Not for use with dimming sensors) | (blank) W | Black White | (blank) | Damp Location | (blank) 3FT 10FT 12FT 15FT 20FT | 6 feet 3 feet 10 feet 12 feet 15 feet 20 feet | |

* Not available wet location.

*** Amperage is only configurable for cords with plugs **** Not available with plugs.

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com



| toption Value Ordering Restrictions | | | | | | | | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| Option value | Restriction | | | | | | | |
| 347 | Not available with ETS or, emergency batteries and EM or ER sensor solutions. | | | | | | | |
| 36000LM | When ordering 347V or 480V with NLTAIR2 or Haleon, fixture utilizes backpack adding 3.09" depth to fixture (see page 8 for line art). | | | | | | | |
| 480 | Not available with ETS, nPP16 D, EM or ER sensor solutions and emergency batteries. | | | | | | | |
| 48000LM | When using IBGPMPHB, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box. | | | | | | | |
| 60000LM | When using IBGPMPHB, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box. | | | | | | | |
| 72000LM | When using IBGPMPHB, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box. | | | | | | | |
| 8000LM | When ordering 347V or 480V with NLTAIR2 or Haleon option, fixture utilizes backpack adding 3.09" depth to fixture (see page 8 for line art). | | | | | | | |
| 90CRI | Only available with SEF. 90CRI configurations have longer lead times. | | | | | | | |
| C6D0SUEM | Daylight harvesting functionality not enabled by default. See page 12 for default sequence of operation. Utilizes <u>XPA CMRB6</u> . Not available with 36000LM. Not available with other controls. | | | | | | | |
| Cord sets | Must specify voltage on cord sets with plugs. Cords come standard out center back of fixture. Refer to cord set ordering table, page 3 for more configurations. Non-standard configurations have extended lead times. | | | | | | | |
| DF | Available on 208, 240, 480V. Not available with MVOLT or HVOLT. | | | | | | | |
| E10WCP | Only available with 8000LM. MVOLT only. Not available with IMP option. Fixture utilizes backpack, adding 3.08" to fixture depth (see page 8 for line art). | | | | | | | |
| Emergency batteries | Not available with IMP option. Emergency batteries alter fixture construction, (see pg. 6 for batteries that use a backpack and line art) Not available with cords with plugs. Use CNP4CW or OCS4C when unswitched hot is required for batter pack options. Consult standard wiring detail on page 8. | | | | | | | |
| ETS | MVOLT only. Not available with cord sets or batteries. When sensor is required, please use the ER sensor option (reference page 9). When ordered with 72000LM, fixture cannot be surface mounted (THUN brackets). Consult table on page 7 for max operating temperature. Utilizes ETS20 DR for 72000LM and ETS 924 DR for all others. | | | | | | | |
| HVOLT | Not available with ETS, nPP16 D, EM or ER sensor solutions and emergency batteries. | | | | | | | |
| IBGPMPHB | 48000LM, When using IBGPMPHB, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box. | | | | | | | |
| IE20WCPHE | MVOLT only. Not available with 8000LM or IMP option. Battery adds 2.8" depth to fixture (see page 8 for line art). | | | | | | | |
| IE30WCPHE | MVOLT only. Not available with 8000LM or IMP option. Battery adds 2.8" depth to fixture (see page 8 for line art). | | | | | | | |
| IMP | Must specify voltage. Not available with NLight wired sensors, batteries, or OUTCTR option. Fixture requires IMP power cord accessory. | | | | | | | |
| Individual controls (Haleon) | Refer to page 12 for Haleon sensor default settings matrix. When ordered with ER sensor, ETS is used. Not available with other controls. Low temperature (LT) option standard, do not call out. | | | | | | | |
| Individual controls (LSXR) | Comes standard with SPD. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). When ordered with ER sensor, ETS is used. Not available with other controls. Refer to page 9 for additional LSXR ordering options. | | | | | | | |
| nLight wireless | Not available with Haleon or nLight wired options. When ordered with ER sensor, ETS is used. Not available with other controls. | | | | | | | |
| L/LENS | Lens is always recommended. | | | | | | | |
| NCMB6 | Sensor wired via CATS to nPP16 D dimming power pack. CATSe connector cable also included. Ships standard with SPD. Only available with 120, 277 or 347V. Not available with other controls. | | | | | | | |
| nPP16 D | Not for use with THUN accessory. Ships standard with SPD. Only available with 120, 277, or 347V. Not available with IMP or nLight wireless options. | | | | | | | |
| OCS | Must specify voltage. Fixture will bear dry location label. Order OCS10 for 10' cord. Consult standard wiring detail on page 8. | | | | | | | |
| OCS4C | Fixture will bear a dry location label. Use when unswitched hot is required for battery pack options, consult standard wiring detail on page 8. | | | | | | | |
| OCU_ | Must specify voltage. When 0-10V dimming leads are required, use C12S option. C12S option is not available with dimming sensors. Fixture will bear dry location label. | | | | | | | |
| OUTCTR | Not available with emergency batteries. Requires IBGPMPHB accessory to mount fixture. Not available with cord set, ETS and IMP options. | | | | | | | |
| ROTO | Available with IBG 8000LM, 12000LM, 15000LM, 18000LM, 24000LM or 36000LM only. | | | | | | | |
| RRL | When dimming leads are required use C12S option. Not for use with dimming sensors. | | | | | | | |
| SF | Available on 120, 277, 347V. Not available with MVOLT or HVOLT. | | | | | | | |
| SPD | Standard with HV0LT, 347, 480, ETS, PS10250, E10WCP, LSXR, and NPP16 D, NPP16 D ER, RPP20 D EM options. Standard with 8000LM and 36000LM when order with Haleon and NLTAIR2. Only specify for MV0LT, 120, 208, 240, or 277V when additional surge protection is needed. | | | | | | | |
| THUN | Maximum ambient temperature of standard fixture mounted with THUN is 113°F (45°C). Not available with MSIIMPIBG, MSI360IMPIBG, NPP16 D options, or any configurations that utilize fixture backpack (see pg. 8 for batteries that use a backpack). Not available with 72000LM with ETS. | | | | | | | |

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com



 \cap

ROTATABLE OPTICS

- + Rotate in 30° increments, 0° 180°
- Create Custom Distributions
- 30° light up rack
 90° wall wash
- 90° Wall Wash
 180° Uplight



C

HANGER HOLE DIMENSIONS

🖊 LITHONIA LIGHTING

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com © 2016-2021 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/10/21



LINE ART AND DIMENSIONS

All dimensions are in inches (centimeters) unless otherwise indicated. Dimensions may vary with options or accessories.



Page 6 of 16



IBG OPERATIONAL DATA

| | | | AFL | GND | | |
|--------------|------------------|-------------------|--------------------------|-----|--|--|
| IBG SEF | | | Acrylic Frosted, General | | | |
| | Lumen Package | Wattage (277V) | Lumen Output | LPW | | |
| | 8000LM | 48 | 7845 | 163 | | |
| | 12000LM | 76 | 11856 | 156 | | |
| | 15000LM | 93 | 14774 | 159 | | |
| Delivered | 18000LM | 105 | 18531 | 176 | | |
| Lumens | 24000LM | 144 | 24490 | 170 | | |
| 4000K, 80CRI | 30000LM | 178 | 29586 | 166 | | |
| SEF | 36000LM | 218 | 35451 | 163 | | |
| | 48000LM | 284 | 47261 | 166 | | |
| | 60000LM | 357 | 59715 | 167 | | |
| | 72000LM | 426 | 71168 | 167 | | |
| | 8000LM | 48 | 7970 | 165 | | |
| | 12000LM | 76 | 12045 | 158 | | |
| | 15000LM | 93 | 15010 | 161 | | |
| Delivered | 18000LM | 105 | 18297 | 174 | | |
| Lumens | 24000LM | 144 | 25046 | 174 | | |
| 5000K, 80CRI | 30000LM | 178 | 30059 | 169 | | |
| SEF | 36000LM | 218 | 36018 | 165 | | |
| | 48000LM | 284 | 48017 | 169 | | |
| | 60000LM | 357 | 60670 | 170 | | |
| | 72000LM | 426 | 72306 | 170 | | |

| | | | AFL | GND | | |
|--------------|------------------|-------------------|--------------------------|-----|--|--|
| IBG HEF | | | Acrylic Frosted, General | | | |
| | Lumen Package | Wattage (277V) | Lumen Output | LPW | | |
| | 8000LM | 47 | 7913 | 167 | | |
| | 12000LM | 68 | 11944 | 176 | | |
| | 15000LM | 85 | 14941 | 176 | | |
| Delivered | 18000LM | 100 | 17902 | 179 | | |
| Lumens | 24000LM | 134 | 23845 | 178 | | |
| 4000K, 80CRI | 30000LM | 170 | 29819 | 175 | | |
| HEF | 36000LM | 214 | 35900 | 168 | | |
| | 48000LM | 280 | 47662 | 170 | | |
| | 60000LM | 343 | 57621 | 168 | | |
| | 72000LM | 425 | 71124 | 167 | | |
| | 8000LM | 47 | 8092 | 171 | | |
| | 12000LM | 68 | 12215 | 180 | | |
| | 15000LM | 85 | 15280 | 180 | | |
| Delivered | 18000LM | 100 | 18308 | 183 | | |
| Lumens | 24000LM | 134 | 24386 | 182 | | |
| 5000K, 80CRI | 30000LM | 170 | 30495 | 179 | | |
| HEF | 36000LM | 214 | 36715 | 172 | | |
| | 48000LM | 280 | 48744 | 174 | | |
| | 60000LM | 343 | 58929 | 172 | | |
| | 72000LM | 425 | 72738 | 171 | | |

SCALING FACTOR TABLES

| ССТ | Multiplier |
|-------|------------|
| 3000K | 0.93 |
| 3500K | 0.96 |
| 4000K | 0.98 |
| 5000K | 1.00 |

| CRI | Multiplier |
|-------|------------|
| 70CRI | 1.05 |
| 80CRI | 1.00 |
| 90CRI | 0.87 |

| General Distributions | Multiplier |
|-----------------------|------------|
| AFL GND | 1.00 |
| ACL GND | 1.01 |
| PFL GND | 0.83 |
| L/Lens | 1.04 |

| Other Distributions | Multiplier |
|---------------------|------------|
| AFL GND | 1.00 |
| ATL ND | 1.00 |
| ATL WD | 1.00 |
| ATL AD | 1.01 |

PHOTOMETRICS

See <u>www.lithonia.com</u>.

🜔 LITHONIA LIGHTING

INDUSTRIAL: One Lithonia Way, Convers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com

© 2016-2021 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/10/21 Page 7 of 16



IBG CHARACTERISTICS

| | | | | Wat | tage | | | | | | | |
|---------|------|----------|------------|------|------|---------|----------|------|-------------------------------------------------------------------------------------------------------------|-------|-------|-------------------------------------|
| Lumen | | Standard | efficiency | | | High ef | ficiency | | Length | Width | Depth | Comparable |
| package | 120V | 277V | 347V | 480V | 120V | 277V | 347V | 480V | Dimensions are shown in inches (centimeters) unless otherwise noted. Dimensions are for SEF fixtures. | | | Light Source |
| 8000LM | 48 | 48 | 48 | 48 | 47 | 47 | 47 | 47 | 25.6 | 11.8 | 2.75 | 100W MH, 4-lamp T8 NBF |
| 12000LM | 77 | 76 | 75 | 75 | 69 | 68 | 67 | 68 | 25.6 | 11.8 | 2.75 | 175W MH, 4-lamp T8 HBF, 2-lamp T5H0 |
| 15000LM | 95 | 93 | 93 | 93 | 86 | 85 | 85 | 85 | 25.6 | 11.8 | 2.75 | 200W MH, 6-lamp T8 NBF |
| 18000LM | 106 | 105 | 106 | 105 | 100 | 100 | 99 | 99 | 25.6 | 15.51 | 2.75 | 250W MH, 6-lamp T8 HBF, 4-lamp T5H0 |
| 24000LM | 147 | 144 | 145 | 145 | 135 | 134 | 134 | 135 | 25.6 | 15.51 | 2.75 | 400W MH, 6-lamp T5H0 |
| 30000LM | 182 | 178 | 179 | 179 | 172 | 170 | 171 | 171 | 25.6 | 15.51 | 2.75 | 575W MH, 10-lamp T8 HBF |
| 36000LM | 223 | 218 | 217 | 217 | 214 | 214 | 214 | 213 | 25.6 | 20.65 | 2.75 | 750W MH, 8-lamp T5H0 |
| 48000LM | 290 | 284 | 287 | 285 | 280 | 280 | 279 | 278 | 47.29 | 15.51 | 2.75 | 875W MH, 10-lamp T5H0 |
| 60000LM | 365 | 357 | 361 | 359 | 346 | 343 | 344 | 345 | 47.29 | 15.51 | 2.75 | 1000W MH |
| 72000LM | 435 | 426 | 431 | 428 | 428 | 425 | 426 | 427 | 47.29 | 20.65 | 2.75 | 1000W MH |

PROJECTED LUMEN MAINTENANCE

| IBG 2ft & 4ft | | | | | | |
|--------------------------|---|--------|--------|--------|--------|---------|
| Operating hours | 0 | 15,000 | 30,000 | 45,000 | 60,000 | 100,000 |
| Lumen maintenance factor | 1 | 0.98 | 0.96 | 0.94 | 0.92 | 0.86 |

AMBIENT TEMPERATURE RATINGS

| LUMENS | SUSPENDED | SUSPENDED SENSORS/ CONTROL | NDED SURFACE SURFACE SENSORS/ CONTROL | | BATTERY | ETS |
|---------|-----------|-------------------------------|---------------------------------------|----|---------|-----|
| 8000LM | 55 | 55 | 45 45 45 | | 40 | |
| 12000LM | 55 | 55 | 45 | 45 | 40 | 40 |
| 15000LM | 55 | 55 | 45 45 40 | | 40 | |
| 18000LM | 55 | 55 | 45 | 45 | 40 | 40 |
| 24000LM | 55 | 55 | 45 | 45 | 40 | 40 |
| 30000LM | 55 | 55 | 45 | 45 | 40 | 40 |
| 36000LM | 55 | 55 | 45 | 45 | 40 | 40 |
| 48000LM | 55 | 55 | 45 | 45 | 40 | 40 |
| 60000LM | 55 | 55 | 45 | 45 | 40 | 40 |
| 72000LM | 55 | 55 | 45 | 45 | 40 | 40 |

Note: Various add-on components such as sensors and batteries impact operating temperature range of IBG fixture. Consult component specification sheets or consult factory to determine if components have a different operating temperature range than IBG.

IK RATING

| IK Rating | |
|---------------------|------|
| Poly-carbonate Lens | IK10 |
| Acrylic Lens | IK06 |

LUMENS VS. AMBIENT TEMPERATURE

| Ambient °C | Ambient °F | Lumen Multiplier |
|------------|------------|------------------|
| 0 | 32 | 1.03 |
| 5 | 41 | 1.03 |
| 10 | 50 | 1.02 |
| 15 | 59 | 1.01 |
| 20 | 68 | 1.01 |
| 25 | 77 | 1 |
| 30 | 86 | 0.99 |
| 35 | 95 | 0.99 |
| 40 | 104 | 0.98 |
| 45 | 113 | 0.97 |
| 50 | 122 | 0.96 |
| 55 | 131 | 0.95 |



EMERGENCY BATTERY PACK OPTIONS

| Factory-Installed Nomenclature | Battery Part Number | Utilizes BPK?* | Suitable for Field Installation |
|-----------------------------------|---------------------|----------------|------------------------------------|
| E10WCP | PS1055CP | Yes | No |
| IE20WCPHE | ILBLP-CP20-HE-SD-HV | No | Yes |
| IE30WCPHE | ILBLP-CP30-HE-SD-HV | No | Yes |
| - | ILBHI-CP20-HE-SD-HV | - | Yes |
| - | ILBHI-CP30-HE-SD-HV | - | Yes |



Note: ILBHI is standard HVOLT battery pack

CORD SETS WITH EMERGENCY WIRING DETAILS

When battery is ordered with a 3-conductor cord set or Reloc[®] cord (OCS):



The 3 conductor cord set will include the hot (BL), neutral (WH), and ground (GR) conductors but not the unswitched hot for the battery.

- The unswitched hot for powering the battery (BK) will exit the fixture out of the K0 of the backpack (for E10WCP batteries) or out of the K0 on the end plate (all other battery options).
- If KO-mounted sensor is included, the unswitched hot will come out of opposite end plate KO.

When battery is ordered with a 4-conductor cord set or Reloc[®] cord (OCS4C):



The 4 conductor cord set will include include the hot (BL), neutral (WH), and ground (GR) conductors AND the unswitched hot will be a separate conductor (RED).

Note: To get IBG wired from the factory for 24/7 operation, with on/off controlled by sensor rather than switch, contact your factory representative to request the normal hot and unswitched hot wired together in the fixture. Consult local codes to determine if this is allowable.

When ETS is used (individually or on ER sensor) with a 3-conductor cord set or Reloc® cord (OCS):



| EMERGEI | e with E10WCF | مجل GND (50 | IE30WCPHE | 2.80 |
|---------|---------------|-------------|-----------|-----------|
| | | E10WCP | IE20WCPHE | IE30WCPHE |
| | 8000 | 2000 | - | - |
| | 12000 | - | 3900 | 5800 |

| | 12000 | - | 3900 | 5800 |
|-----|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| | 15000 | - | 3900 | 5800 |
| | 18000 | - | 3900 | 5800 |
| | 24000 | - | 4000 | 6000 |
| SEF | 30000 | - | 4000 | 6000 |
| | 36000 | - | 4000 | 6000 |
| | 48000 | - | 4000 | 6000 |
| | 60000 | - | 4000 | 6000 |
| | 72000 | - | 4000 | 6000 |
| | | F10WCP | IE20WCPHE | IE30WCPHE |
| | | | inter the | 1250WCI II2 |
| | 8000 | 2100 | - | - |
| | 8000 12000 | 2100 | - 4200 | - 6200 |
| | 8000 12000 15000 | 2100 | - 4200 4200 | - 6200 6200 |
| | 8000 12000 15000 18000 | 2100 - - - | - 4200 4200 4300 | - 6200 6200 6300 |
| urr | 8000 12000 15000 18000 24000 | 2100 - - - - | - 4200 4200 4300 4300 | - 6200 6200 6300 6300 |
| HEF | 8000 12000 15000 18000 24000 30000 | 2100 - - - - - | | - 6200 6200 6300 6300 6300 |
| HEF | 8000 12000 15000 18000 24000 30000 36000 | 2100 - - - - - - | | - 6200 6200 6300 6300 6300 6300 |
| HEF | 8000 12000 15000 24000 30000 36000 48000 | 2100 - - - - - - - - - - - - | - 4200 4200 4300 4300 4300 4300 4300 | - 6200 6200 6300 6300 6300 6300 6300 |
| HEF | 8000 12000 15000 24000 30000 36000 48000 60000 | 2100 - - - - - - - - - - - - - - | - 4200 4200 4300 4300 4300 4300 4300 4300 4300 | - 6200 6200 6300 6300 6300 6300 6300 6300 6300 |

Note: Based on AFL GND, 50K, 80CRI. For emergency lumen output of specific model, please consult factory.

EMERGENCY LUMENS CROSS AFL GND (5000K, 80CRI)

| | | OLD BATTERY | NEW BATTERY | OLD BATTERY | NEW BATTERY |
|-----|-------|-------------|-------------|-------------|-------------|
| | | PS10250 | IE20WCPHE | PS30250 | IE30WCPHE |
| | 12000 | 1400 | 3900 | 4300 | 5800 |
| | 15000 | 1400 | 3900 | 4300 | 5800 |
| | 18000 | 1400 | 3900 | 4300 | 5800 |
| CEF | 24000 | 2900 | 4000 | 3600 | 6000 |
| SEF | 30000 | 2900 | 4000 | 3600 | 6000 |
| | 36000 | 2900 | 4000 | 3600 | 6000 |
| | 48000 | 2900 | 4000 | 3600 | 6000 |
| | 60000 | 2900 | 4000 | 3600 | 6000 |

The 3 conductor cord set will include the hot (BL), neutral (WH), and ground (GR) conductors but not the dedicated hot and neutral for emergency function

- The emergency hot (BK) and neutral (WH) will exit the fixture out of the KO of the end plate.
- If KO-mounted sensor is included, the emergency hot and neutral will come out of opposite end plate

A LITHONIA LIGHTING

KO.

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com

© 2016-2021 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/10/21 Page 9 of 16



EMERGENCY OPERATION SCENARIOS

| | Standard Sensor or Control Device | EM Solution | ER Solution |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | (commonly used with Battery Pack Option) | (Used when switching single incoming hot to generator power) | (Used when switching to generator power via a 2nd hot lead) |
| Emergency Lighting | *Luminaire-integral battery pack and emergency driver | *Diesel genset emergency backup supply | *Fast Transfer (FT) inverter emergency backup supply |
| Strategy | *Generator transfer device | *Slow transfer inverter (>30ms) emergency backup supply | *Uninterruptible Power System (UPS) emergency |
| Recommended Control Device Option | *Not specifically listed for emergency use. *Wired such that a separately listed emergency device provides emergency lighting power and/or control during loss of normal power scenarios. | *UL924 listed *Utilizes Power Interruption Detection to initiate lighting control override during loss of normal power scenarios. *Requires power interruption > 30 ms to luminaire during transfer to emergency backup supply. | *UL924 listed *Utilizes dedicated Normal Power sensing leads to initiate lighting control override during loss of normal power scenarios. *Requires connections to both emergency and normal power circuits. |

| | | | | | | IBG Standard Sensor Settings | | | | |
|---------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|---------------------------------------|------------------------------|-----------------------------|--------------|---------------------------------------|------------------------|
| | Function | Sequence of Operations | Standard Sensor or Control Device | EM Solution (Generator 1 Hot) | ER Solution* (Generator 2 Hots) | Vacancy Time Out | Dim to Off Time Delay | High Trim | Low Trim (Vacancy Dim Level) | Photocell Set Point |
| | 0n/Off | Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout. | LSXR6 | SBOR6 OEX EM | LSXR6 ER | 10 min | - | - | - | - |
| Standalone Sensors (Individual control per fixture) | High/Low (Off) | "Lights turn on to high trim when presence is detected; Upon vacancy, the lights dim to low trim after timeout and turn off after "Dim To Off"" Time Delay. For High/Low (Never Off) function, bypass the relay by bringing power directly into driver rather than wiring hot through LSXR device." | LSXR6 HL | - | LSXR6 HL ER | 10 min | 2.5 min | 100% | "10% (Driver Low)" | - |
| | Photocell | Lights turn on unless ambient light level is above set point; if ambient light levels in the space exceed the photocell set point, lights will turn off even during occupancy. | LSXR6 P | - | LSXR6 P ER | - | - | - | - | 4 fc |
| | Dimming + Photocell | Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, the lights dim to low trim, then turn off after timeout; During occupancy, automatically raise and lower electric light level to maintain set point and turn off, depending on ambient light. | LSXR6 ADC | SBOR6 ODP EM | LSXR6 ADC ER | 10 min | 2.5 | - | - | 4 fc |
| | Dimming + Photocell + High/Low | Lights turn on when presence is detected unless ambient light level is above set point. Upon vacancy, lights dim to low trim after timeout and remain at low trim until presence is detected; Automatically raise and lower electric light level to maintain set point during occupancy and during vacancy keeps lights at low trim if ambient light is not sufficient. | LSXR6 ANL | - | LSXR6 ANL ER | 10 min | - | 100% | 10% | 4 fc |
| | Note: For 360° int | egral Low Mount sensors, replace "6" in nomenclature with "10". Ev. LSXR10.P. For Hig | h Aisle Mount sensors | replace "6" with "50" | | | | | | |

| | 0n/0ff | Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout. | HLN45 OCC | - | HLN45 OCC ER | 10 min | - | - | - | - |
|---------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|--------------|--------|---------|------|-----|-------|
| Bluetooth Sensors (Configurable via mobile Bluetooth app) | High/Low (Off) | Lights turn on to high trim when presence is detected; Upon vacancy, the lights dim to low trim after timeout and turn off after "Dim To Off" Time Delay. | HLN45 HL | - | HLN45 HL ER | 10 min | 2.5 min | 100% | 10% | - |
| | Dimming + Photocell | Lights turn on when presence is detected unless ambient light level is above set point, Upon vacancy, the lights dim to low trim during timeout; During occupancy, automatically raise and lower electric light level to maintain set point and turn off, depending on ambient light. | HLN45 ADC | - | HLN45 ADC ER | 10 min | - | - | 10% | 50 fc |
| | Dimming + Photocell + High/Low (Never Off) | Lights turn on when presence is detected unless ambient light level is above set point. Upon vacancy, lights dim to low tim after timeout and remain at low trim until presence is detected, Automatically raise and lower electric light level to maintain set point during occupancy and during vacancy keeps lights at low trim if ambient light is not sufficient. | HLN45 ANL | - | HLN45 ANL ER | 10 min | - | 100% | 10% | 50 fc |
| | Note: For High Ai | Note: For High Aisle Mount sensors, replace "45" in nomenclature with "45A". Ex. HLN45A HL | | | | | | | | |

| nLight wired Networked Controls | Dimming + Photocell + Occupancy | Programmable network sensor - On/Off Occupancy detection with Dimming (includes dimming powerpack externally mounted to fixture access plate) | NCMB6 | - | NCMB6 ER | 10 min | 7.5 min | 100% | 10% | 5 fc |
|-------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|------------|--------|---------|------|-----|------|
| | Dimming | Programmable On/Off control only with dimming - no sensor (device externally mounted to fixture access plate) | NPP16 D | - | NPP16 D ER | - | - | 100% | 1% | - |
| | Note: For 360° int | Note: For 360° internal Low Mount concore, replace "6" in pompendature with "10". For high fille Mount concore, replace "6" with "50". For WCWRCD | | | | | | | | |

| R Sors | Dimming + Photocell + Occupancy | Wirelessly programmable network sensor - On/Off control with dimming, occupancy detection, and daylight harvesting (Sensor embedded in fixture) | NLTAIR2 RMSOD45 | NLTAIR2 RLSXR6 Em | NLTAIR2 RMSOD45 ER | 7.5 min | - | 100% | 30% | 50 fc |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|-----------------------|---------|------|--------------------------|-----|-------|
| nLight All Wireless Sens | Dimming | Wirelessly programmable On/Off control with dimming - no sensor (Device embedded in fixture) | NLTAIR2 RPP20 D EM | NLTAIR2 RIO ER | - | - | 100% | "10% (driver low)" | - | |
| > | Note: For 360° integral Low Mount sensors, replace "45" in nomenclature with "7". For high Aisle Mount sensors, replace "45" with "45A". Ex: NLTAIR2 RMS0D45A EM sensors/controls are K0-mounted; all others integral. RPP20 D EM de-rates fixture to Damp Location. | | | | | | | | | |
| | | | | | | | | | | |

*All ER solutions except nLight wired, include standard sensor or control device with a factory-installed -+1ota ETS##-DR (UL924 bypass device). This device is integral to the fixture and will include a hot and neutral lead for the dedicated emergency circuit.

🚺 LITHONIA LIGHTING

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com

© 2016-2021 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/10/21 Page 10 of 16



JOB PACK QUANTITIES

| | | | | Job Pack Quantities | | |
|-------------|-------------|---------|-------------------------------|---------------------------------|------------------|--------------|
| Series | Performance | Lumens | Standard / Base configuration | With Sensor, Cord Set, or RELOC | With Wire guards | With Battery |
| | | 8000LM | | | | |
| | | 12000LM | 90 | 60 | 60 | 48 |
| | | 15000LM | | | | |
| | | 18000LM | | | | |
| | CEE | 24000LM | 64 | 40 | 40 | 32 |
| | JLI | 30000LM | | | | |
| | | 36000LM | 52 | 32 | 32 | 28 |
| | | 48000LM | 30 | 24 | 20 | 14 |
| | | 60000LM | | 21 | | |
| | | 72000LM | 26 | 18 | 18 | 14 |
| IBG | | | | | | |
| | | 8000LM | 90 | 60 | 60 | 48 |
| | | 12000LM | 64 | 40 | 40 | 32 |
| | | 15000LM | | | | 52 |
| | | 18000LM | | | | |
| | HEF | 24000LM | 52 | 32 | 32 | 28 |
| | | 30000LM | | | | |
| | | 36000LM | | | | |
| | | 48000LM | | | | |
| | | 60000LM | 26 | 18 | 18 | 14 |
| | | 72000LM | | | | |
| | | | | | | |
| Brookout Ev | ampla | | | | | |

| Breakout Example: | | |
|-------------------|---------|-------------------------------------------------------------|
| Ordered Line: | Qty: 90 | IBG 24000LM SEF AFL GND MVOLT GZ10 50K 80CRI LSXR6 DWH JP |
| | | *Above configuration shows 40 units for Job Pack |
| | | |
| Breakout Line 1: | Qty: 80 | IBG 24000LM SEF AFL GND MVOLT GZ10 50K 80CRI LSXR6 DWH JP40 |
| | | *Will have 2 pallets of 40 units each |
| | | |
| Breakout Line 2: | Qty: 10 | IBG 24000LM SEF AFL GND MVOLT GZ10 50K 80CRI LSXR6 DWH |
| | | *Balance will ship in unit cartons |
| | | |
| | | |

Note: If quantity ordered is less than Job Pack quantity for that configuration, the breakout line will default to unit packs.

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com



nLIGHT AIR SENSOR - RMSOD

nLIGHT® AIR Dimming and Photo Sensor





7 - MINI-LOW BAY 360° LENS

.86 .48 -

- Recommended for walking motion detection from mounting heights between 8 ft (2.44m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m)and 1.75x up to 20 ft (6.10 m)
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74)
- Initial detection will occur earlier when walking across sensor's field of view than walking directly at sensor





45- HIGH MOUNT 360°

- Optimized full coverage pattern for 10 40 ft. (3.1 12 m)
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height



45A HIGH MOUNT AISLEWAY

- Optimized bi directional coverage pattern for aisleways with 10 40 ft. (3.1 12 m) . mounting heights
- 1.5X's mounting height equals approximate detection range
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height



SIDE VIEW



TOP VIEW



30 0.8

A LITHONIA LIGHTING

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com

© 2016-2021 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/10/21 Page 12 of 16



HALEON - Integrated Occupancy Sensor with Bluetooth® Programmability

- Programmable sensor settings over Bluetooth[®] with Acuity VLP smartphone app.
- Default programming options to service various application spaces occupancy detection, 0-10V dimming and daylight harvesting.
- 360° High Mount and High Mount Aiselway lens detection options for mounting heights up to 40 ft.
- Integrated retractable lens mask included to block unwanted detection.
- Sensor ambient temperature rating of -40°F (-40°C) to 158°F (70°C).





Haleon Default Programming

| Model | Default Operation | LSXR Equivalent | Occupancy Time Delay | Photocell Mode | Photocell Set-point | Low Trim | High Trim | Dim to Off Time Delay |
|------------|----------------------------------------------------------------|----------------------------|-------------------------|-------------------|------------------------|----------|-----------|--------------------------|
| HLNxxx | On/Off Occupancy Only | LSXR6 LT or LAOOSTU | 10 minutes | Disabled | n/a | n/a | 100% | Disabled |
| HLNxxx HL | Occupancy w/ 0-10V Dim- ming (High/Low/Off) | LSXR6 HL LT or LAHOSTU | 10 minutes | Disabled | n/a | 10% | 100% | 2.5 minutes |
| HLNxxx ADC | Occupancy w/ Dim & Switch Photocell | LSXR6 ADC LT or LAMOSTU | 10 minutes | On/Off & Auto Dim | 50 fc | 10% | 100% | 0 seconds |
| HLNxxx ANL | Dim & Switch Photocell with High/Low Occupancy Operation | LSXR6 ANL LT or LAGOSTU | 10 minutes | On/Off & Auto Dim | 50 fc | 10% | 100% | Stay Dim/ Never Off |

Note: Lens detection noted in place of 'xxx'

HALEON COVERAGE PATTERNS

45- HIGH MOUNT 360°

- Optimized full coverage pattern for 10 40 ft. (3.1 12 m)
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height
- Stow-able rotating lens shield can be utilized to mask areas in which detection is not desired $% \left({{{\mathbf{x}}_{i}}} \right)$



45A HIGH MOUNT AISLEWAY

- Optimized bi directional coverage pattern for aisleways with 10 40 ft. (3.1 12 m) mounting heights
- 1.2X's mounting height equals approximate detection range
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height
- Stow-able rotating lens shield can be utilized to mask areas in which detection is not desired



🝊 LITHONIA LIGHTING

IBG

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com

© 2016-2021 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/10/21 Page 13 of 16



LSXR — Fixture Mount Occupancy Sensor (see

www.AcuityControls.com for additional information)

- Three interchangeable lens options to satisfy multiple
 mounting heights and coverage pattern requirements.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.
- Sensor ambient temperature rating of 14°F (-10°C) to 131°F (55°C).

| LSXR configuration | Comparable CMRB sensor | Old style sensor nomenclature |
|----------------------------|---------------------------|----------------------------------|
| For shortest lead times us | e one of the follow | ring LSXR configurations |
| LSXR50 / LCOZU | CMRB 50 | MSI |
| LSXR50 HL / LCHOSZU | CMRB 50 D | MSID |
| LSXR50 P / LCPZU | CMRB 50 P | MSIPED |
| LSXR6 / LAOZU | CMRB 6 | MSI360 |
| LSXR6 HL / LAHOSZU | CMRB 6 D | MSI360D |
| LSXR6 P / LAPZU | CMRB 6 P | MSI360PED |
| | | |

0 m | 0 ft

LSXR COVERAGE PATTERNS

HIGH MOUNT 360° LENS (#6)



- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
 15 to 20 ft (4.57 to 6.10 m) radial coverage
- overlaps area lit by a typical high bay fixture Excellent detection of large motion (e.g. walking)
- up to a 35 ft (10.76 m) mounting height

 Excellent detection of extra large motion (e.g.
- forklifts) up to a 45 ft (13.72 m) mounting height



HIGH MOUNT AISLEWAY LENS (#50)



- Provides a bi-directional coverage pattern ideal for warehouse racking
- 1.2x mounting height equals approximate detection range in either direction
 Typical 40 ft (12.19 m) mounting detects 50 ft
- (15.24 m) in either direction
 Superior aisleway coverage compared to a masked 360° lens

LOW MOUNT 360° LENS (#10)



- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft2) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams





🖊 LITHONIA LIGHTING

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com



C6D0SUEM & C10D0SUEM - UL924 Listed Sensors

SENSOR DEFAULT SEQUENCE OF OPERATION

- The occupied light level is full output.
- The unoccupied light level is approximately 30%.
- The time delay following sensor vacancy is 5 minutes, with an additional 5 minute slow ramp from the occupied light level to the unoccupied light level.
- The onboard daylight sensor is not enabled by default sensor will not respond to changing daylight conditions.

Daylight sensor settings can be enabled and programmed by a trained technician after installation.

EGRESS MODE SEQUENCE OF OPERATION

The UL924 C6D0SUEM & C10D0SUEM controls are designed to provide fully tuned light output for 90 minutes following power loss or interruption, ignoring automatic dimming/occupancy/daylight control signals during this time.

- Typical sequence upon power loss: Backup power source activates, transfer switch moves the emergency circuit powering the sensor onto the backup source, and sensor regains power. This sensor is programmed to detect any power interruption or transfer > 30 ms
- The sensor then ignores occupancy & daylight status and controls the luminaire to full light output for 90 minutes.
- The device resumes normal dimming & occupancy controls after 90 minutes.
- This sensor should not be used with online power backup systems or any transfer devices with < 30 ms transfer time.



IMP - Integrated Modular Plug

- The integrated modular plug (IMP) option allows the installer to plug and play a multitude of accessories.
- Cord sets connect quickly to any fixture with IMP option.
- IMP accessories include occupancy sensors, photocells, X-point relays.

| IMP | compatible cord sets ¹ | |
|----------------|-----------------------------------|--|
| CS1WIMP | Straight plug, 120V | |
| CS3WIMP | Twist-lock, 120V | |
| CS7WIMP | Straight plug, 277V | |
| CS11WIMP | Twist-lock, 277V | |
| CS25WIMP | Twist-lock, 347V | |
| CS93WIMP | 600V SEOOW white cord, no plug | |
| CS97WIMP | Twist-lock, 480V | |

| IMP compa | tible sensors |
|-----------|---------------|
| MSIIMP | Aisle sensor |
| MSI360IMP | 360° sensor |

rdering Example

Order As: Qty 1 - IBG 12000LM SEF AFL GND 120 GZ10 40K 80CRI IMP CP5BW DWH Ships As: Qty 1 - IBG 12000LM SEF AFL GND MVOLT GZ10 40K 80CRI DWH Qty 1 - C51WIMP



Notes

1 Cord set required for fixture operation. All cord sets are 18/3, 6' white.

RRL - RELOC®-Ready Luminaire

- RRL connectors to be used with the OnePass system.
- Load side of connector factory installed to luminaire.
- 4-pole mating connector with push-in terminations allows for simple installation.
- Touch-safe design on both halves meets UL/CSA requirement.
- Wiping contact design allows safe disconnect under load.



| ORDERING INFORMATION | Lead times will vary depending on options selected. Consult with your sales representative. | Example: RRLA |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Series | Wiring instructions | |
| RRL RELOC®-ready luminaire | A Hot conductor wired to position #1 (phase A); non-dimming B Hot conductor wired to position #2 (phase B); non-dimming AE Hot conductor wired to position #1 (phase A), hot conductor #2 wired to position #2 (phase B); non-dimming 1 C12S Hot conductor in position #1 (phase A), low voltage conductor #1 in position #2, low voltage conductor #2 in position #3; dimming 2 | |

Compatible RELOC® Cables for Industrial Luminaires (ordered and shipped separately) (dick to view RELOC product page for more information)



Notes

- 1 AE commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode. Requires fixture to have battery option.
- 2 C12S option is used with the OnePass for 0-10V/DALI applications. Not for use with dimming sensors.

🚺 LITHONIA LIGHTING

IBG

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) techsupport-Industrial@acuitybrands.com www.lithonia.com







Specifications

Ordering Information

| EPA (ft²@0°): | 0.69 ft² (0.06 m²) | |
|------------------------|-----------------------------------------------|-----------|
| Length: | 29.3″ (74.4 cm) (SPA mount) | |
| Width: | 13.4" (34.0 cm) | PARATEMER |
| Height: | 3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm | |
| Weight: (SPA mount) | 30.0 lbs (13.6 kg) | |

| Catalog Number | | | |
|-------------------|------|--|--|
| Notes | | | |
| Motes | | | |
| | | | |
| Type | | | |

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

EXAMPLE: RSX2 LED P6 40K R3 MVOLT SPA DDBXD

| RSX2 LED | | | | | | | | |
|------------|----------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series | Performance Package | Color Temperature | Distributio | on | Voltage | | Mountin | Ig |
| (RSX2 LED) | P1 P2 P3 P4 P5 P6 | 30K 3000K 40K 4000K 50K 5000K | R2 R3 R3S R4 R4S R5 R5S AFR AFRR90 | Type 2 Wide Type 3 Wide Type 3 Short Type 4 Wide Type 4 Short Type 5 Short 1 Automotive Front Row Automotive Front Row Right Rotated Automotive Front Row | MVOLT HVOLT XVOLT (use spec options 120 ³ 208 ³ 240 ³ | (120V-277V) ² (347V-480V) ³ (277V-480V) ⁴ cific voltage for as noted) 277 ⁵ 347 ⁵ 480 ⁵ | SPA RPA IS WBA WBASC AASP AARP AAWB AAWSC | Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) Mast arm adaptor (fits 2-3/8" 0D horizontal tenon) Adjustable slipfitter (fits 2-3/8" 0D tenon) ⁶ Wall bracket ¹ Wall bracket vith surface conduit box Adjustable tilt arm square pole mounting ⁶ Adjustable tilt arm round pole mounting ⁶ Adjustable tilt arm with wall bracket ⁶ |

| Options | | | | Finish | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Shipped H HS PE PEX PER7 CE34 SF DF SPD20KV FAO DMG DS | nstalled House-side shield ⁷ Photocontrol, button style ^{8,9} Photocontrol external threaded, adjustable ^{9,10} Seven-wire twist-lock receptacle only (no controls) ^{9,11,12,13} Conduit entry 3/4" NPT (Qty 2) Single fuse (120, 277, 347) ⁵ Double fuse (208, 240, 480) ⁵ 20KV Surge pack (10KV standard) Field adjustable output ^{9,13} 0-10V dimming extend out back of housing for external control (control ordered separate) ^{9,13} Dual switching ^{9,14} | Shipped I *Standalc NLTAIR2 PIRHN BAA *Note: PIR settings or pattern is a Shipped S EGS EGFV BS | nstalled one and Networked Sensors/Controls (factory default settings, see table page 9) nlight AIR generation 2 ^{11,15,16} Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) ^{11,16,17} Buy America(n) Act Compliant HN with nLight Air can be used as a standalone dimming sensor with out-of-box as a wireless networked solution. See factory default settings table. Sensor coverage affected when luminaire is tilted. Separately (requires some field assembly) External glare shield ⁶ External glare full visor (360° around light aperture) ⁷ Bird spikes ¹⁸ | DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD | Dark Bronze Black Natural Aluminum White Textured Dark Bronze Textured Black Textured Natural Aluminum Textured White |

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 1 of 9

COMMERCIAL OUTDOOR

LITHONIA LIGHTING



NOTES

5

6

10

Ordering Information

Accessories

| RSX2HS | RSX2 House side shield (includes 2 shields) |
|-----------------------|-------------------------------------------------------|
| RSX2EGS (FINISH) U | External glare shield (specify finish) |
| RSX2HSAFRR (FINISH) U | RSX2 House side shields for AFR rotated optics (in |
| RSX2EGFV (FINISH) U | External glare full visor (specify finish) |
| RSXRPA (FINISH) U | RSX Universal round pole adaptor plate (specify fin |
| RSXWBA (FINISH) U | RSX WBA wall bracket (specify finish) 1 |
| RSXSCB (FINISH) U | RSX Surface conduit box (specify finish, for use with |
| DLL127F 1.5 JU | Photocell -SSL twist-lock (120-277V) 19 |
| DLL347F 1.5 CUL JU | Photocell -SSL twist-lock (347V) 19 |
| DLL480F 1.5 CUL JU | Photocell -SSL twist-lock (480V) 19 |
| DSHORT SBK U | Shorting cap 19 |
| | |

External Shields



House Side Shield



208V, 240V or 480V. Maximum tilt is 90° above horizontal. It may be ordered as an accessory. Requires MVOLT or 347V.

Any Type 5 distribution, is not available with WBA. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). HVOLT driver operates on any line voltage from 347-480V (50/60 Hz). XVOLT driver operates on any line voltage from 347-480V (50/60 Hz). XVOLT driver not available with P1. XVOLT driver operates on any line voltage from 277V-480V (50/04 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.

Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, DS, PIRKH), Requires 120V, 208V, 240V, or 277V.

External Glare Shield



Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use. For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010. We or more of the following options cannot be combined including DMG, DS, PERF, FAO and PIRHN. DS only available on performance package P5 and P6. Must be ordered with PIRHN. Requires MVCUT or HVOLT. Must be ordered with NLTAIR2. For additional information on PIRHN Visit here.

visit here. Must be ordered with fixture for factory pre-drilling. Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

11 12 13

18 19

External 360 Full Visor

Pole/Mounting Informatiion

Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.

HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM & ADJUSTABLE ARM





| Tenon O.D. | RSX Mounting | Single | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2 - 3/8" | RPA, AARP | AS3-5 190 | AS3-5 280 | AS3-5 290 | AS3-5 320 | AS3-5 390 | AS3-5 490 |
| 2 - 7/8" | RPA, AARP | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | RPA, AARP | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Drill/Side Location by Configuration Type

| | | - | | • | | . | |
|-------------------|--------------------|--------|------------|------------|-----------------|---------------|------------------|
| Drilling Template | Mounting Option | Single | 2 @ 180 | | 3 @ 120 | | |
| | Head Location | Side B | Side B & D | Side B & C | Round Pole Only | Side B, C & D | Side A, B, C & D |
| #8 | Drill Nomenclature | DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |

RSX2 - Luminaire EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

| Fixture Quantity & Mounting Configuration | | Single | 2 @ 90 | 2 @ 180 | 3 @ 90 | 3 @ 120 | 4 @ 90 | 2 Side by Side | 3 Side by Side | 4 Side by Side | |
|----------------------------------------------|------|--------|--------|---------|----------------|--------------|--------|-------------------|-------------------|-------------------|--|
| Mounting Type | Tilt | - | • | | . | \mathbf{Y} | | | | | |
| SPA - Square Pole Adaptor | 0 ° | 0.69 | 1.22 | 1.27 | 1.8 | 1.61 | 2.39 | 1.37 | 2.06 | 2.74 | |
| RPA - Round Pole Adaptor | | 0.74 | 1.27 | 1.37 | 1.9 | 1.71 | 2.49 | 1.42 | 2.16 | 2.84 | |
| MA - Mast Arm Adaptor | | 0.61 | 1.14 | 1.11 | 1.64 | 1.45 | 2.23 | 1.29 | 1.9 | 2.58 | |
| | | | | | | | | | | | |
| | 0° | 0.69 | 1.22 | 1.27 | 1.8 | 1.61 | 2.39 | 1.37 | 2.06 | 2.74 | |
| | 10° | 0.53 | 1.06 | 1.05 | 1.58 | 1.37 | 2.08 | 1.06 | 1.59 | 2.12 | |
| | 20° | 0.52 | 1.02 | 1.03 | 1.52 | 1.33 | 2.02 | 1.03 | 1.55 | 2.07 | |
| | 30° | 0.64 | 1.11 | 1.18 | 1.63 | 1.45 | 2.21 | 1.27 | 1.91 | 2.54 | |
| IS - Integral Slipfitter | 40° | 0.81 | 1.21 | 1.35 | 1.74 1.65 | | 2.39 | 1.62 | 2.43 | 3.23 | |
| AASP/AARP - Adjustable | 45° | 0.91 | 1.25 | 1.5 | 1.81 | 1.75 2.48 | | 1.82 | 2.73 | 3.64 | |
| Arm Square/Round Pole | 50° | 1.34 | 1.83 | 2.17 | 2.61 | 2.56 | 3.62 | 2.68 | 4.02 | 5.36 | |
| | 60° | 2.2 | 2.97 | 3.57 | 3.57 4.24 4.17 | | 5.89 | 4.41 | 6.61 | 8.82 | |
| | 70° | 2.86 | 4.13 | 4.7 | 5.89 | 5.71 | 8.21 | 5.71 | 8.57 | 11.42 | |
| | 80° | 3.4 | 5.13 | 5.67 | 7.34 | 7.09 | 10.21 | 10.21 6.79 10. | | 13.59 | |
| | 90° | 3.85 | 5.96 | 6.55 | 8.58 | 8.31 | 11.88 | 7.70 | 11.56 | 15.41 | |







Isofootcandle plots for the RSX2 LED P6 40K. Distances are in units of mounting height (30').

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.

3 2 1

4 4

3

2

1

0

-1

LEGEND 4 3 2 1 0 1 2 3 4 0.1 fc 0.5 fc 1.0 fc







4

4

3

-1

-2

-3

-4



AFR



0 1 2 3 4



-3 -4 AFRR90

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.05 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |
| 45°C | 113°F | 0.96 |
| 50°C | 122°F | 0.95 |

Electrical Load

| Performance Package | System Watts (W) | 120V | 208V | 240V | 277V | 347V | 480V |
|---------------------|------------------|------|------|------|------|------|------|
| P1 | 71W | 0.59 | 0.34 | 0.30 | 0.26 | 0.20 | 0.15 |
| P2 | 111W | 0.93 | 0.53 | 0.46 | 0.40 | 0.32 | 0.23 |
| P3 | 147W | 1.23 | 0.70 | 0.61 | 0.53 | 0.42 | 0.31 |
| P4 | 187W | 1.55 | 0.90 | 0.78 | 0.68 | 0.53 | 0.38 |
| P5 | 210W | 1.75 | 1.01 | 0.87 | 0.76 | 0.60 | 0.44 |
| P6 | 244W | 2.03 | 1.17 | 1.01 | 0.88 | 0.70 | 0.51 |

Projected LED Lumen Maintenance

| • | | | |
|--------------------------|--------|--------|---------|
| Operating Hours | 50,000 | 75,000 | 100,000 |
| Lumen Maintenance Factor | >0.97 | >0.95 | >0.92 |

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED Rev. 06/14/21 Page 3 of 9



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance | System Watts | Distribution. | 30K 40K (3000K, 70 CRI) (4000K, 70 CRI) | | | | 50K (5000K, 70 CRI) | | | | | | | | | | |
|-------------|--------------|---------------|--------------------------------------------|---|---|-----|------------------------|--------|---|---|-----|--------|--------|---|---|-----|-----|
| rackaye | | | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW |
| | | R2 | 10.040 | 2 | 0 | 1 | 139 | 11.031 | 2 | 0 | 1 | 153 | 11.031 | 2 | 0 | 1 | 153 |
| | | R3 | 10.005 | 2 | 0 | 2 | 141 | 10.992 | 2 | 0 | 2 | 155 | 10,992 | 2 | 0 | 2 | 155 |
| | | R3S | 10,271 | 2 | 0 | 2 | 143 | 11,285 | 2 | 0 | 2 | 157 | 11,285 | 2 | 0 | 2 | 157 |
| | | R4 | 10,136 | 2 | 0 | 2 | 143 | 11,136 | 2 | 0 | 2 | 157 | 11,136 | 2 | 0 | 2 | 157 |
| D1 | 71W | R4S | 9,779 | 2 | 0 | 2 | 138 | 10,744 | 2 | 0 | 2 | 151 | 10,744 | 2 | 0 | 2 | 151 |
| r i | / //// | R5 | 10,271 | 4 | 0 | 2 | 145 | 11,285 | 4 | 0 | 2 | 159 | 11,285 | 4 | 0 | 2 | 159 |
| | | R5S | 10,544 | 3 | 0 | 1 | 149 | 11,585 | 3 | 0 | 2 | 163 | 11,585 | 3 | 0 | 2 | 163 |
| | | AFR | 10,026 | 2 | 0 | 1 | 141 | 11,016 | 2 | 0 | 1 | 155 | 11,016 | 2 | 0 | 1 | 155 |
| | | AFRR90 | 10,122 | 3 | 0 | 2 | 140 | 11,121 | 3 | 0 | 2 | 154 | 11,121 | 3 | 0 | 2 | 154 |
| | | AFRL90 | 10,164 | 3 | 0 | 2 | 141 | 11,16/ | 3 | 0 | 2 | 155 | 11,16/ | 3 | 0 | 2 | 155 |
| | | KZ | 15,/12 | 2 | 0 | 2 | 138 | 17,263 | 2 | 0 | 2 | 151 | 17,263 | 2 | 0 | 2 | 151 |
| | | K3 | 15,057 | 2 | 0 | 3 | 141 | 17,202 | 3 | 0 | 3 | 155 | 17,202 | 3 | 0 | 3 | 155 |
| | | DA | 10,075 | 2 | 0 | 2 | 141 | 17,001 | 2 | 0 | 2 | 155 | 17,001 | 2 | 0 | 2 | 155 |
| | | RAS | 15,002 | 2 | 0 | 2 | 138 | 16 815 | 2 | 0 | 2 | 157 | 16,815 | 2 | 0 | 2 | 157 |
| P2 | 111W | R5 | 16 075 | Δ | 0 | 2 | 145 | 17,661 | 5 | 0 | 3 | 159 | 17 661 | 5 | 0 | 2 | 159 |
| | | R5S | 16,502 | 4 | 0 | 2 | 149 | 18,130 | 4 | 0 | 2 | 163 | 18,130 | 4 | 0 | 2 | 163 |
| | | AFR | 15.691 | 2 | 0 | 2 | 141 | 17,240 | 2 | 0 | 2 | 155 | 17,240 | 2 | 0 | 2 | 155 |
| | | AFRR90 | 15,841 | 3 | 0 | 3 | 139 | 17,404 | 4 | 0 | 3 | 153 | 17,404 | 4 | 0 | 3 | 153 |
| | | AFRL90 | 15,907 | 3 | 0 | 3 | 139 | 17,477 | 4 | 0 | 3 | 153 | 17,477 | 4 | 0 | 3 | 153 |
| | | R2 | 19,855 | 3 | 0 | 2 | 132 | 21,814 | 3 | 0 | 2 | 145 | 21,814 | 3 | 0 | 2 | 145 |
| | | R3 | 19,785 | 3 | 0 | 3 | 135 | 21,737 | 3 | 0 | 4 | 148 | 21,737 | 3 | 0 | 4 | 148 |
| | | R3S | 20,312 | 3 | 0 | 3 | 135 | 22,317 | 3 | 0 | 3 | 149 | 22,317 | 3 | 0 | 3 | 149 |
| | | R4 | 20,044 | 3 | 0 | 3 | 136 | 22,022 | 3 | 0 | 4 | 150 | 22,022 | 3 | 0 | 4 | 150 |
| P3 | 147W | R4S | 19,339 | 3 | 0 | 3 | 132 | 21,247 | 3 | 0 | 3 | 145 | 21,247 | 3 | 0 | 3 | 145 |
| 15 | | R5 | 20,313 | 5 | 0 | 3 | 138 | 22,317 | 5 | 0 | 3 | 152 | 22,317 | 5 | 0 | 3 | 152 |
| | | R5S | 20,852 | 4 | 0 | 2 | 142 | 22,910 | 4 | 0 | 2 | 156 | 22,910 | 4 | 0 | 2 | 156 |
| | | AFR | 19,828 | 3 | 0 | 2 | 135 | 21,785 | 3 | 0 | 2 | 148 | 21,785 | 3 | 0 | 2 | 148 |
| | | AFRR90 | 20,017 | 4 | 0 | 3 | 133 | 21,992 | 4 | 0 | 3 | 147 | 21,992 | 4 | 0 | 3 | 147 |
| | | AFRL90 | 20,101 | 4 | 0 | 3 | 134 | 22,084 | 4 | 0 | 3 | 14/ | 22,084 | 4 | 0 | 3 | 14/ |
| | | KZ D2 | 22,830 | 3 | 0 | 2 | 120 | 25,090 | 3 | 0 | 2 | 132 | 25,090 | 3 | 0 | 2 | 132 |
| | | K3 | 22,/50 | 3 | 0 | 4 | 122 | 25,002 | 3 | 0 | 4 | 134 | 25,002 | 3 | 0 | 4 | 134 |
| | | R33 | 23,303 | 2 | 0 | 1 | 123 | 25,000 | 2 | 0 | 1 | 135 | 25,000 | 3 | 0 | 2 | 135 |
| | | R4S | 23,034 | 3 | 0 | - 7 | 119 | 25,525 | 3 | 0 | 3 | 135 | 25,059 | 3 | 0 | 7 | 133 |
| P4 | 187W | R5 | 23 363 | 5 | 0 | 3 | 125 | 25,659 | 5 | 0 | 4 | 137 | 25,659 | 5 | 0 | 4 | 137 |
| | | R5S | 23,983 | 4 | 0 | 2 | 123 | 26,350 | 4 | 0 | 2 | 141 | 26,350 | 4 | 0 | 2 | 141 |
| | | AFR | 22,806 | 3 | 0 | 2 | 122 | 25.056 | 3 | 0 | 2 | 134 | 25.056 | 3 | 0 | 2 | 134 |
| | | AFRR90 | 23.023 | 4 | 0 | 3 | 121 | 25,295 | 4 | 0 | 3 | 133 | 25,295 | 4 | 0 | 3 | 133 |
| | | AFRL90 | 23,120 | 4 | 0 | 3 | 122 | 25,401 | 4 | 0 | 3 | 134 | 25,401 | 4 | 0 | 3 | 134 |
| | | R2 | 26,141 | 3 | 0 | 2 | 122 | 28,721 | 3 | 0 | 2 | 135 | 28,721 | 3 | 0 | 2 | 135 |
| | | R3 | 26,049 | 3 | 0 | 4 | 124 | 28,620 | 3 | 0 | 4 | 136 | 28,620 | 3 | 0 | 4 | 136 |
| | | R3S | 26,744 | 3 | 0 | 3 | 125 | 29,383 | 3 | 0 | 4 | 138 | 29,383 | 3 | 0 | 4 | 138 |
| | | R4 | 26,390 | 3 | 0 | 4 | 126 | 28,994 | 3 | 0 | 4 | 138 | 28,994 | 3 | 0 | 4 | 138 |
| P5 | 210W | R4S | 25,462 | 3 | 0 | 3 | 121 | 27,974 | 3 | 0 | 3 | 133 | 27,974 | 3 | 0 | 3 | 133 |
| | 2.000 | R5 | 26,744 | 5 | 0 | 4 | 127 | 29,383 | 5 | 0 | 4 | 140 | 29,383 | 5 | 0 | 4 | 140 |
| | | R5S | 27,454 | 4 | 0 | 2 | 131 | 30,163 | 4 | 0 | 2 | 144 | 30,163 | 4 | 0 | 2 | 144 |
| | | AFR | 26,106 | 3 | 0 | 2 | 124 | 28,682 | 3 | 0 | 2 | 137 | 28,682 | 3 | 0 | 2 | 137 |
| | | AFKK90 | 26,354 | 4 | 0 | 3 | 123 | 28,955 | 5 | 0 | 3 | 136 | 28,955 | 5 | 0 | 3 | 136 |
| | | AFRL90 | 26,465 | 4 | 0 | 3 | 124 | 29,077 | 2 | 0 | 3 | 136 | 29,077 | 5 | 0 | 3 | 136 |
| | | K2 | 27,646 | 3 | 0 | 2 | 112 | 30,374 | 3 | 0 | 2 | 123 | 30,3/4 | 3 | 0 | 2 | 123 |
| | | K3 D2C | 27,549 | 2 | 0 | 4 | 115 | 30,207 | 2 | 0 | 4 | 124 | 30,207 | 3 | 0 | 4 | 124 |
| | | R/ | 20,283 | 3 | 0 | 3 | 115 | 30,663 | 3 | 0 | 4 | 120 | 30,663 | 3 | 0 | 4 | 120 |
| | | R/S | 27,505 | 2 | 0 | 2 | 110 | 29 585 | 2 | 0 | 2 | 120 | 29 585 | 2 | 0 | 2 | 120 |
| P6 | 244W | R45 | 20,520 | 5 | 0 | 1 | 116 | 31 075 | 5 | 0 | 1 | 121 | 31.075 | 5 | 0 | 1 | 121 |
| | | RSS | 20,204 | 4 | 0 | 2 | 110 | 31,075 | 5 | 0 | 3 | 131 | 31,075 | 5 | 0 | 3 | 131 |
| | | AFR | 27,608 | 3 | 0 | 2 | 112 | 30,332 | 3 | 0 | 2 | 123 | 30,332 | 3 | 0 | 2 | 123 |
| | | AFRR90 | 27,872 | 4 | 0 | 3 | 113 | 30.622 | 5 | 0 | 3 | 124 | 30.622 | 5 | 0 | 3 | 124 |
| | AFRL90 | 27,989 | 4 | 0 | 3 | 113 | 30,751 | 5 | 0 | 3 | 125 | 30,751 | 5 | 0 | 3 | 125 | |





Luminaire Weight by Mounting Type

| Mounting Configuration | Total Luminaire Weight |
|------------------------|------------------------|
| SPA | 30 lbs |
| RPA | 32 lbs |
| MA | 30 lbs |
| WBA | 33 lbs |
| WBASC | 36 lbs |
| IS | 33 lbs |
| AASP | 33 lbs |
| AARP | 35 lbs |
| AAWB | 36 lbs |
| AAWSC | 39 lbs |

RSX2 with Round Pole Adapter (RPA)



Length: 30.3" (77.0 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm

RSX2 with Mast Arm Adapter (MA)





7/16" locking thru bolt/nut provided

Note: RPA — Round Pole mount can also be

used to mount on square poles by omitting

the round pole adapter plate shown here.

Length: 30.6" (77.7 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 3.5" (8.9 cm) Arm

RSX2 with Adjustable Slipfitter (IS)







Length: 28.3" (71.9 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm



LIGHTING

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 5 of 9


RSX2 with Wall Bracket (WBA)



Length: 31.2" (79.2 cm) Width: 13.4" (41.7 cm) Height: 3.0" (7.6 cm) Main Body 8.9" (22.6 cm) Arm





Wall Bracket (WBA) Mounting Detail



RSX2 with Wall Bracket with Surface Conduit Box (WBASC)







3/4" NPT taps with plugs - Qty (4) provided

Surface Conduit Box (SCB) Mounting Detail

Length: 32.8" (83.3 cm) Width: 13.4" (41.7 cm) Height: 3.0" (7.6 cm) Main Body 9.2" (23.4 cm) Arm







RSX2 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



Notes

AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°. AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

RSX2 with Adjustable Tilt Arm with Wall Bracket (AAWB)





One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 7 of 9



RSX2 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



Additional Reference Drawings





(Example: 2@180 - arrows indicate direction of light exiting the luminaire)



Lithonia RSX2 Area LED Rev. 06/14/21 Page 8 of 9



nLight Control - Sensor Coverage and Settings



| | Motion Sensor Default Settings - Option PIRHN | | | | | | | | | | |
|---------------|-----------------------------------------------|-------------------------------|------------------------|--------------------------------------|-----------------------------------------------|-------------------------------------------------|--|--|--|--|--|
| Option | Dimmed State (unoccupied) | High Level (when occupied) | Photocell Operation | Dwell Time (occupancy time delay) | Ramp-up Time (from unoccupied to occupied) | Ramp-down Time (from occupied to unoccupied) | | | | | |
| NLTAIR2 PIRHN | Approx. 30% Output | 100% Output | Enabled @ 1.5FC | 7.5 minutes | 3 seconds | 5 minutes | | | | | |

*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is titled.

FEATURES & SPECIFICATIONS

INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX2 delivers 11,000 to 31,000 lumens and is ideal for replacing 250W to 1000W HID pole-mounted luminaires in parking lots and other area lighting applications.

CONSTRUCTION AND DESIGN

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. Vibration rated per ANSI C136.31: 30 Mountings: Include SPA, RPA, MA, IS, AASP, AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel

OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing The light to where it is needed most. Available in short and wide patient interest, standard Type 2, Type 3, Type 3, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row) and AFR rotated AFRR90 and AFRL90.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumer maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/ IEEE C62.41.2).

STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can becom sistency. In other exercised whereas initiationally, such as group animiting, height and an be commissioned using a smartphone and the easy-to-use CLARITY app. height AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at v PL to confirm which versions are international Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products

on this page utilizing 3000K color temperature only.

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to w an for additional information acuitybrands o

WARRANTY

5-year limited warranty. Complete warranty terms located at

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED Rev. 06/14/21 Page 9 of 9







Specifications

Ordering Information

| EPA (ft²@0°): | 0.69 ft² (0.06 m²) | |
|------------------------|-----------------------------------------------|-----------|
| Length: | 29.3″ (74.4 cm) (SPA mount) | |
| Width: | 13.4" (34.0 cm) | PATIATIAN |
| Height: | 3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm | |
| Weight: (SPA mount) | 30.0 lbs (13.6 kg) | |

| Catalog Number | | | |
|-------------------|------|--|--|
| Notos | | | |
| notes | | | |
| Type | | | |
| r iype | | | |

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

EXAMPLE: RSX2 LED P6 40K R3 MVOLT SPA DDBXD

| RSX2 LED | | | | | | | | |
|------------|----------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series | Performance Package | Color Temperature | Distribut | ion | Voltage | | Mountin | Ig |
| (RSX2 LED) | P1 P2 P3 P4 P5 P6 | 30K 3000K 40K 4000K 50K 5000K | R2 R3 R3S R4 R4S R5 R5S AFR AFRR90 AFRL90 | Type 2 Wide Type 3 Wide Type 3 Short Type 4 Wide Type 4 Short Type 5 Wide 1 Type 5 Short 1 Automotive Front Row Automotive Front Row Right Rotated Automotive Front Row | MVOLT HVOLT XVOLT (use specoptions 120 ³ 208 ³ 240 ³ | (120V-277V) ² (347V-480V) ³ (277V-480V) ⁴ cific voltage for as noted) 277 ⁵ 347 ⁵ 480 ⁵ | SPA RPA IS WBA WBASC AASP AARP AAWB AAWSC | Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) Mast arm adaptor (fits 2-3/8" 0D horizontal tenon) Adjustable slipfitter (fits 2-3/8" 0D tenon) ⁶ Wall bracket ¹ Wall bracket vith surface conduit box Adjustable tilt arm square pole mounting ⁶ Adjustable tilt arm with wall bracket ⁶ |

| Options | | | | Finish | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Shipped H HS PE PEX PER7 CE34 SF DF SPD20KV FAO DMG DS | nstalled House-side shield ⁷ Photocontrol, button style ^{8,9} Photocontrol external threaded, adjustable ^{9,10} Seven-wire twist-lock receptacle only (no controls) ^{9,11,12,13} Conduit entry 3/4" NPT (Qty 2) Single fuse (120, 277, 347) ⁵ Double fuse (208, 240, 480) ⁵ 20KV Surge pack (10KV standard) Field adjustable output ^{9,13} 0-10V dimming extend out back of housing for external control (control ordered separate) ^{9,13} Dual switching ^{9,14} | Shipped I *Standal NLTAIR2 PIRHN BAA *Note: PIR Settings or pattern is Shipped S EGFV BS | Installed one and Networked Sensors/Controls (factory default settings, see table page 9) nLight AIR generation 2 ^{13,15,16} Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) ^{13,16,17} Buy America(n) Act Compliant XHN with nLight Air can be used as a standalone dimming sensor with out-of-box r as a wireless networked solution. See factory default settings table. Sensor coverage affected when luminaire is tilted. Separately (requires some field assembly) External glare shield ⁶ External glare shield ⁶ External glare full visor (360° around light aperture) ⁷ Bird spikes ¹⁸ | DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD | Dark Bronze Black Natural Aluminum White Textured Dark Bronze Textured Black Textured Natural Aluminum Textured White |

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 1 of 9

COMMERCIAL OUTDOOR

LITHONIA

LIGHTING



NOTES

5

6

10

Ordering Information

Accessories

| RSX2HS | RSX2 House side shield (includes 2 shields) |
|-----------------------|----------------------------------------------|
| RSX2EGS (FINISH) U | External glare shield (specify finish) |
| RSX2HSAFRR (FINISH) U | RSX2 House side shields for AFR rotated op |
| RSX2EGFV (FINISH) U | External glare full visor (specify finish) |
| RSXRPA (FINISH) U | RSX Universal round pole adaptor plate (spe |
| RSXWBA (FINISH) U | RSX WBA wall bracket (specify finish) 1 |
| RSXSCB (FINISH) U | RSX Surface conduit box (specify finish, for |
| DLL127F 1.5 JU | Photocell -SSL twist-lock (120-277V) 19 |
| DLL347F 1.5 CUL JU | Photocell -SSL twist-lock (347V) 19 |
| DLL480F 1.5 CUL JU | Photocell -SSL twist-lock (480V) 19 |
| DSHORT SBK U | Shorting cap 19 |
| | |

External Shields





Any Type 5 distribution, is not available with WBA. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). HVOLT driver operates on any line voltage from 347-480V (50/60 Hz). XVOLT driver operates on any line voltage from 347-480V (50/60 Hz). XVOLT driver not available with P1. XVOLT driver operates on any line voltage from 277V-480V (50/04 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.

Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, DS, PIRKH), Requires 120V, 208V, 240V, or 277V.

208V, 240V or 480V. Maximum tilt is 90° above horizontal. It may be ordered as an accessory. Requires MVOLT or 347V.

11 12 13

18 19

Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use. For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010. We or more of the following options cannot be combined including DMG, DS, PERF, FAO and PIRHN. DS only available on performance package P5 and P6. Must be ordered with PIRHN. Requires MVCU or HVOLT. Must be ordered with NLTAIR2. For additional information on PIRHN Visit here.

visit here. Must be ordered with fixture for factory pre-drilling. Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

External 360 Full Visor

Pole/Mounting Informatiion

House Side Shield

Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.

HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM & ADJUSTABLE ARM



Round Tenon Mount - Pole Top Slipfitters

| Tenon O.D. | RSX Mounting | Single | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2 - 3/8" | RPA, AARP | AS3-5 190 | AS3-5 280 | AS3-5 290 | AS3-5 320 | AS3-5 390 | AS3-5 490 |
| 2 - 7/8" | RPA, AARP | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | RPA, AARP | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Drill/Side Location by Configuration Type

| | | - | | • | * | | - |
|-------------------|--------------------|--------|------------|------------|-----------------|---------------|------------------|
| Drilling Template | Mounting Option | Single | 2 @ 180 | | 3 @ 120 | 3 @ 90 | |
| | Head Location | Side B | Side B & D | Side B & C | Round Pole Only | Side B, C & D | Side A, B, C & D |
| #8 | Drill Nomenclature | DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |

RSX2 - Luminaire EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

| Fixture Quantity & Mo Configuration | ounting | Single | 2 @ 90 | 2 @ 180 | 3 @ 90 | 3 @ 120 | 4 @ 90 | 2 Side by Side | 3 Side by Side | 4 Side by Side |
|----------------------------------------|---------|--------|--------|---------|----------|--------------|--------|-------------------|-------------------|-------------------|
| Mounting Type | Tilt | - | • | | . | \mathbf{Y} | | | | |
| SPA - Square Pole Adaptor | 0 ° | 0.69 | 1.22 | 1.27 | 1.8 | 1.61 | 2.39 | 1.37 | 2.06 | 2.74 |
| RPA - Round Pole Adaptor | | 0.74 | 1.27 | 1.37 | 1.9 | 1.71 | 2.49 | 1.42 | 2.16 | 2.84 |
| MA - Mast Arm Adaptor | | 0.61 | 1.14 | 1.11 | 1.64 | 1.45 | 2.23 | 1.29 | 1.9 | 2.58 |
| | | | | | | | | | | |
| | 0 ° | 0.69 | 1.22 | 1.27 | 1.8 | 1.61 | 2.39 | 1.37 | 2.06 | 2.74 |
| | 10° | 0.53 | 1.06 | 1.05 | 1.58 | 1.37 | 2.08 | 1.06 | 1.59 | 2.12 |
| | 20° | 0.52 | 1.02 | 1.03 | 1.52 | 1.33 | 2.02 | 1.03 | 1.55 | 2.07 |
| | 30° | 0.64 | 1.11 | 1.18 | 1.63 | 1.45 | 2.21 | 1.27 | 1.91 | 2.54 |
| IS - Integral Slipfitter | 40° | 0.81 | 1.21 | 1.35 | 1.74 | 1.65 | 2.39 | 1.62 | 2.43 | 3.23 |
| AASP/AARP - Adjustable | 45° | 0.91 | 1.25 | 1.5 | 1.81 | 1.75 | 2.48 | 1.82 | 2.73 | 3.64 |
| Arm Square/Round Pole | 50° | 1.34 | 1.83 | 2.17 | 2.61 | 2.56 | 3.62 | 2.68 | 4.02 | 5.36 |
| | 60° | 2.2 | 2.97 | 3.57 | 4.24 | 4.17 | 5.89 | 4.41 | 6.61 | 8.82 |
| | 70° | 2.86 | 4.13 | 4.7 | 5.89 | 5.71 | 8.21 | 5.71 | 8.57 | 11.42 |
| | 80° | 3.4 | 5.13 | 5.67 | 7.34 | 7.09 | 10.21 | 6.79 | 10.19 | 13.59 |
| | 90° | 3.85 | 5.96 | 6.55 | 8.58 | 8.31 | 11.88 | 7.70 | 11.56 | 15.41 |





Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.

3 2 1

4 4

3

2

1

0

-1

-2

-3

-4













AFRR90

0 1 2 3 4



4 3 0 -1 -2 -3

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.05 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |
| 45°C | 113°F | 0.96 |
| 50°C | 122°F | 0.95 |

Electrical Load

| Performance Package | System Watts (W) | 120V | 208V | 240V | 277V | 347V | 480V |
|---------------------|------------------|------|------|------|------|------|------|
| P1 | 71W | 0.59 | 0.34 | 0.30 | 0.26 | 0.20 | 0.15 |
| P2 | 111W | 0.93 | 0.53 | 0.46 | 0.40 | 0.32 | 0.23 |
| P3 | 147W | 1.23 | 0.70 | 0.61 | 0.53 | 0.42 | 0.31 |
| P4 | 187W | 1.55 | 0.90 | 0.78 | 0.68 | 0.53 | 0.38 |
| P5 | 210W | 1.75 | 1.01 | 0.87 | 0.76 | 0.60 | 0.44 |
| P6 | 244W | 2.03 | 1.17 | 1.01 | 0.88 | 0.70 | 0.51 |

Projected LED Lumen Maintenance

| • | | | |
|-----------------|--------|--------|---------|
| Operating Hours | 50,000 | 75,000 | 100,000 |
| | >0.97 | >0.95 | >0.92 |

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED Rev. 06/14/21 Page 3 of 9



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance | System Watts | Distribution. | | (3000 | 30K IK, 70 CR | I) | | | (4000 | 40K)K, 70 CR | l) | | | (5000 | 50K K, 70 CR | l) | |
|-------------|--------------|---------------|--------|-------|------------------|-----|--------|--------|-------|------------------|-----|--------|--------|-------|-----------------|-----|-----|
| rackaye | | | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW |
| | | R2 | 10.040 | 2 | 0 | 1 | 139 | 11.031 | 2 | 0 | 1 | 153 | 11.031 | 2 | 0 | 1 | 153 |
| | | R3 | 10.005 | 2 | 0 | 2 | 141 | 10.992 | 2 | 0 | 2 | 155 | 10,992 | 2 | 0 | 2 | 155 |
| | | R3S | 10,271 | 2 | 0 | 2 | 143 | 11,285 | 2 | 0 | 2 | 157 | 11,285 | 2 | 0 | 2 | 157 |
| | | R4 | 10,136 | 2 | 0 | 2 | 143 | 11,136 | 2 | 0 | 2 | 157 | 11,136 | 2 | 0 | 2 | 157 |
| D1 | 71₩ | R4S | 9,779 | 2 | 0 | 2 | 138 | 10,744 | 2 | 0 | 2 | 151 | 10,744 | 2 | 0 | 2 | 151 |
| r i | 71W | R5 | 10,271 | 4 | 0 | 2 | 145 | 11,285 | 4 | 0 | 2 | 159 | 11,285 | 4 | 0 | 2 | 159 |
| | | R5S | 10,544 | 3 | 0 | 1 | 149 | 11,585 | 3 | 0 | 2 | 163 | 11,585 | 3 | 0 | 2 | 163 |
| | | AFR | 10,026 | 2 | 0 | 1 | 141 | 11,016 | 2 | 0 | 1 | 155 | 11,016 | 2 | 0 | 1 | 155 |
| | | AFRR90 | 10,122 | 3 | 0 | 2 | 140 | 11,121 | 3 | 0 | 2 | 154 | 11,121 | 3 | 0 | 2 | 154 |
| | | AFRL90 | 10,164 | 3 | 0 | 2 | 141 | 11,167 | 3 | 0 | 2 | 155 | 11,167 | 3 | 0 | 2 | 155 |
| | | R2 | 15,712 | 2 | 0 | 2 | 138 | 17,263 | 2 | 0 | 2 | 151 | 17,263 | 2 | 0 | 2 | 151 |
| | | R3 | 15,657 | 2 | 0 | 3 | 141 | 17,202 | 3 | 0 | 3 | 155 | 17,202 | 3 | 0 | 3 | 155 |
| | | R3S | 16,075 | 2 | 0 | 2 | 141 | 17,661 | 2 | 0 | 2 | 155 | 17,661 | 2 | 0 | 2 | 155 |
| | | K4 | 15,862 | 2 | 0 | 3 | 143 | 17,427 | 2 | 0 | 3 | 15/ | 17,427 | 2 | 0 | 3 | 157 |
| P2 | 111W | K45 | 15,304 | 2 | 0 | 2 | 138 | 10,815 | 2 | 0 | 2 | 151 | 10,815 | 2 | 0 | 2 | 151 |
| | | DSC | 16,075 | 4 | 0 | 2 | 145 | 19 120 | 2 | 0 | 2 | 162 | 19 120 | 2 | 0 | 2 | 162 |
| | | AFR | 15,601 | 2 | 0 | 2 | 145 | 17 240 | 2 | 0 | 2 | 105 | 17 2/0 | 2 | 0 | 2 | 105 |
| | | AFRROO | 15,071 | 2 | 0 | 2 | 130 | 17,240 | 1 | 0 | 2 | 153 | 17,240 | 1 | 0 | 2 | 153 |
| | | AFRI 90 | 15,041 | 3 | 0 | 3 | 139 | 17,404 | 4 | 0 | 3 | 153 | 17,404 | 4 | 0 | 3 | 153 |
| | | R2 | 19,855 | 3 | 0 | 2 | 132 | 21.814 | 3 | 0 | 2 | 145 | 21.814 | 3 | 0 | 2 | 145 |
| | | R3 | 19,785 | 3 | 0 | 3 | 135 | 21,737 | 3 | 0 | 4 | 148 | 21,737 | 3 | 0 | 4 | 148 |
| | | R3S | 20,312 | 3 | 0 | 3 | 135 | 22.317 | 3 | 0 | 3 | 149 | 22,317 | 3 | 0 | 3 | 149 |
| | | R4 | 20,044 | 3 | 0 | 3 | 136 | 22,022 | 3 | 0 | 4 | 150 | 22,022 | 3 | 0 | 4 | 150 |
| | | R4S | 19,339 | 3 | 0 | 3 | 132 | 21,247 | 3 | 0 | 3 | 145 | 21,247 | 3 | 0 | 3 | 145 |
| P3 | 14/W | R5 | 20,313 | 5 | 0 | 3 | 138 | 22,317 | 5 | 0 | 3 | 152 | 22,317 | 5 | 0 | 3 | 152 |
| | | R5S | 20,852 | 4 | 0 | 2 | 142 | 22,910 | 4 | 0 | 2 | 156 | 22,910 | 4 | 0 | 2 | 156 |
| | | AFR | 19,828 | 3 | 0 | 2 | 135 | 21,785 | 3 | 0 | 2 | 148 | 21,785 | 3 | 0 | 2 | 148 |
| | | AFRR90 | 20,017 | 4 | 0 | 3 | 133 | 21,992 | 4 | 0 | 3 | 147 | 21,992 | 4 | 0 | 3 | 147 |
| | | AFRL90 | 20,101 | 4 | 0 | 3 | 134 | 22,084 | 4 | 0 | 3 | 147 | 22,084 | 4 | 0 | 3 | 147 |
| | | R2 | 22,836 | 3 | 0 | 2 | 120 | 25,090 | 3 | 0 | 2 | 132 | 25,090 | 3 | 0 | 2 | 132 |
| | | R3 | 22,756 | 3 | 0 | 4 | 122 | 25,002 | 3 | 0 | 4 | 134 | 25,002 | 3 | 0 | 4 | 134 |
| | | R3S | 23,363 | 3 | 0 | 3 | 123 | 25,668 | 3 | 0 | 3 | 135 | 25,668 | 3 | 0 | 3 | 135 |
| | | K4 | 23,054 | 3 | 0 | 4 | 123 | 25,329 | 3 | 0 | 4 | 135 | 25,329 | 3 | 0 | 4 | 135 |
| P4 | 187W | K45 | 22,243 | 5 | 0 | 3 | 119 | 25,059 | 5 | 0 | 3 | 134 | 25,059 | 5 | 0 | 3 | 134 |
| | | KD DCC | 23,303 | 5 | 0 | 3 | 125 | 25,009 | 5 | 0 | 4 | 1/1 | 25,009 | 5 | 0 | 4 | 1/1 |
| | | AFR | 23,703 | 2 | 0 | 2 | 120 | 20,330 | 2 | 0 | 2 | 13/ | 20,330 | 2 | 0 | 2 | 141 |
| | | AFRR90 | 22,000 | 4 | 0 | 3 | 122 | 25,050 | 4 | 0 | 3 | 133 | 25,050 | 4 | 0 | 2 | 133 |
| | | AFRI 90 | 23,120 | 4 | 0 | 3 | 121 | 25,401 | 4 | 0 | 3 | 135 | 25,401 | 4 | 0 | 3 | 134 |
| | | R2 | 26,141 | 3 | 0 | 2 | 122 | 28,721 | 3 | 0 | 2 | 135 | 28,721 | 3 | 0 | 2 | 135 |
| | | R3 | 26,049 | 3 | 0 | 4 | 124 | 28.620 | 3 | 0 | 4 | 136 | 28,620 | 3 | 0 | 4 | 136 |
| | | R3S | 26,744 | 3 | 0 | 3 | 125 | 29,383 | 3 | 0 | 4 | 138 | 29,383 | 3 | 0 | 4 | 138 |
| | | R4 | 26,390 | 3 | 0 | 4 | 126 | 28,994 | 3 | 0 | 4 | 138 | 28,994 | 3 | 0 | 4 | 138 |
| DC | 210W | R4S | 25,462 | 3 | 0 | 3 | 121 | 27,974 | 3 | 0 | 3 | 133 | 27,974 | 3 | 0 | 3 | 133 |
| 1.5 | 210 | R5 | 26,744 | 5 | 0 | 4 | 127 | 29,383 | 5 | 0 | 4 | 140 | 29,383 | 5 | 0 | 4 | 140 |
| | | R5S | 27,454 | 4 | 0 | 2 | 131 | 30,163 | 4 | 0 | 2 | 144 | 30,163 | 4 | 0 | 2 | 144 |
| | | AFR | 26,106 | 3 | 0 | 2 | 124 | 28,682 | 3 | 0 | 2 | 137 | 28,682 | 3 | 0 | 2 | 137 |
| | | AFRR90 | 26,354 | 4 | 0 | 3 | 123 | 28,955 | 5 | 0 | 3 | 136 | 28,955 | 5 | 0 | 3 | 136 |
| | | AFRL90 | 26,465 | 4 | 0 | 3 | 124 | 29,077 | 5 | 0 | 3 | 136 | 29,077 | 5 | 0 | 3 | 136 |
| | | K2 | 27,646 | 3 | 0 | 2 | 112 | 30,374 | 3 | 0 | 2 | 123 | 30,374 | 3 | 0 | 2 | 123 |
| | | K3 | 27,549 | 3 | 0 | 4 | 115 | 30,26/ | 3 | 0 | 4 | 124 | 30,267 | 3 | 0 | 4 | 124 |
| | | K35 | 28,283 | 3 | 0 | 3 | 115 | 31,0/5 | 3 | 0 | 4 | 126 | 31,0/5 | 3 | 0 | 4 | 120 |
| | | D/G | 27,909 | 2 | 0 | 4 | 114 | 20,003 | 2 | 0 | 4 | 120 | 20,003 | 2 | 0 | 4 | 120 |
| P6 | 244W | R5 | 20,920 | 5 | 0 | 3 | 116 | 29,303 | 5 | 0 | 3 | 121 | 29,303 | 5 | 0 | 2 | 121 |
| | | RSS | 20,204 | 4 | 0 | 4 | 110 | 31,0/5 | 5 | 0 | 4 | 12/ | 31,075 | 5 | 0 | 4 | 12/ |
| | | AFR | 27,608 | 3 | 0 | 2 | 112 | 30 332 | 3 | 0 | 2 | 123 | 30 332 | 3 | 0 | 2 | 123 |
| | | AFRR90 | 27,872 | 4 | 0 | 3 | 113 | 30,622 | 5 | 0 | 3 | 123 | 30.622 | 5 | 0 | 3 | 123 |
| | AFRL90 | 27,989 | 4 | 0 | 3 | 113 | 30,751 | 5 | 0 | 3 | 125 | 30,751 | 5 | 0 | 3 | 125 | |





Luminaire Weight by Mounting Type

| Mounting Configuration | Total Luminaire Weight | | | |
|------------------------|------------------------|--|--|--|
| SPA | 30 lbs | | | |
| RPA | 32 lbs | | | |
| MA | 30 lbs | | | |
| WBA | 33 lbs | | | |
| WBASC | 36 lbs | | | |
| IS | 33 lbs | | | |
| AASP | 33 lbs | | | |
| AARP | 35 lbs | | | |
| AAWB | 36 lbs | | | |
| AAWSC | 39 lbs | | | |

RSX2 with Round Pole Adapter (RPA)



Length: 30.3" (77.0 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm

RSX2 with Mast Arm Adapter (MA)





7/16" locking thru bolt/nut provided

Note: RPA — Round Pole mount can also be

used to mount on square poles by omitting

the round pole adapter plate shown here.

Length: 30.6" (77.7 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 3.5" (8.9 cm) Arm

RSX2 with Adjustable Slipfitter (IS)







Length: 28.3" (71.9 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED Rev. 06/14/21 Page 5 of 9

туре: **F5**



RSX2 with Wall Bracket (WBA)



Length: 31.2" (79.2 cm) Width: 13.4" (41.7 cm) Height: 3.0" (7.6 cm) Main Body 8.9" (22.6 cm) Arm





Wall Bracket (WBA) Mounting Detail



RSX2 with Wall Bracket with Surface Conduit Box (WBASC)







3/4" NPT taps with plugs - Qty (4) provided

Surface Conduit Box (SCB) Mounting Detail

Length: 32.8" (83.3 cm) Width: 13.4" (41.7 cm) Height: 3.0" (7.6 cm) Main Body 9.2" (23.4 cm) Arm







RSX2 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



Notes

AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°. AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

RSX2 with Adjustable Tilt Arm with Wall Bracket (AAWB)





One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 7 of 9



RSX2 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



Additional Reference Drawings





(Example: 2@180 - arrows indicate direction of light exiting the luminaire)





nLight Control - Sensor Coverage and Settings



| | | | Motion Sensor Def | ault Settings - Option PIRHN | | |
|---------------|------------------------------|-------------------------------|------------------------|--------------------------------------|-----------------------------------------------|-------------------------------------------------|
| Option | Dimmed State (unoccupied) | High Level (when occupied) | Photocell Operation | Dwell Time (occupancy time delay) | Ramp-up Time (from unoccupied to occupied) | Ramp-down Time (from occupied to unoccupied) |
| NLTAIR2 PIRHN | Approx. 30% Output | 100% Output | Enabled @ 1.5FC | 7.5 minutes | 3 seconds | 5 minutes |

*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is titled.

FEATURES & SPECIFICATIONS

INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX2 delivers 11,000 to 31,000 lumens and is ideal for replacing 250W to 1000W HID pole-mounted luminaires in parking lots and other area lighting applications.

CONSTRUCTION AND DESIGN

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. Vibration rated per ANSI C136.31: 30 Mountings: Include SPA, RPA, MA, IS, AASP, AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel

OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing The light to where it is needed most. Available in short and wide patient interest, standard Type 2, Type 3, Type 3, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row) and AFR rotated AFRR90 and AFRL90.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumer maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/ IEEE C62.41.2).

STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can becom sistency. In other exercised whereas initiationally, such as group animiting, height and an be commissioned using a smartphone and the easy-to-use CLARITY app. height AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at v PL to confirm which versions are international Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products

on this page utilizing 3000K color temperature only.

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to w an for additional information acuitybrands o

WARRANTY

5-year limited warranty. Complete warranty terms located at

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED Rev. 06/14/21 Page 9 of 9







Specifications

Ordering Information

| EPA (ft²@0°): | 0.69 ft² (0.06 m²) | |
|------------------------|-----------------------------------------------|--------------|
| Length: | 29.3″ (74.4 cm) (SPA mount) | |
| Width: | 13.4" (34.0 cm) | PATINETENTIE |
| Height: | 3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm | |
| Weight: (SPA mount) | 30.0 lbs (13.6 kg) | |

| Notes | Catalog Number | | |
|-------|-------------------|--|--|
| Notes | | | |
| | Notes | | |
| | | | |

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

EXAMPLE: RSX2 LED P6 40K R3 MVOLT SPA DDBXD

| RSX2 LED | | | | | | | | |
|------------|----------------------------------|-------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series | Performance Package | Color Temperature | Distributi | ion | Voltage | | Mountin | |
| (RSX2 LED) | P1 P2 P3 P4 P5 P6 | 30K 3000K 40K 4000K 50K 5000K | R2 R3 R3S R4 R4S R5 R5S AFR AFRR90 AFRL90 | Type 2 Wide Type 3 Wide Type 3 Short Type 4 Wide Type 4 Short Type 5 Short 1 Automotive Front Row Automotive Front Row Right Rotated Automotive Front Row | MVOLT HVOLT XVOLT (use specoptions 120 ³ 208 ³ 240 ³ | (120V-277V) ² (347V-480V) ³ (277V-480V) ⁴ cific voltage for as noted) 277 ⁵ 347 ⁵ 480 ⁵ | SPA RPA IS WBA WBASC AASP AARP AAWB AAWSC | Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) Mast arm adaptor (fits 2-3/8" 0D horizontal tenon) Adjustable slipfitter (fits 2-3/8" 0D tenon) ⁶ Wall bracket ¹ Wall bracket with surface conduit box Adjustable tilt arm square pole mounting ⁶ Adjustable tilt arm round pole mounting ⁶ Adjustable tilt arm with wall bracket ⁶ |

| Options | | | Finish | |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Shipped HS PE PEX PER7 CE34 SF CE34 SF DF SPD20KV FA0 DMG DS | nstalled House-side shield ⁷ Photocontrol, button style ^{8,9} Photocontrol external threaded, adjustable ^{9,10} Seven-wire twist-lock receptacle only (no controls) ^{9,11,12,13} Conduit entry 3/4" NPT (Qty 2) Single fuse (120, 277, 347) ⁵ Double fuse (208, 240, 480) ⁵ 20KV Surge pack (10KV standard) Field adjustable output ^{9,13} 0-10V dimming extend out back of housing for external control (control ordered separate) ^{9,13} Dual switching ^{9,14} | Shipped Installed *Standalone and Networked Sensors/Controls (factory default settings, see table page 9) NLTAIR2 nLight AIR generation 2 ^{13,15,16} PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) ^{13,16,17} BAA Buy America(n) Act Compliant *Note: PIRHN with nLight Air can be used as a standalone dimming sensor with out-of-box settings or as a wireless networked solution. See factory default settings table. Sensor coverage pattern is affected when luminaire is tilted. Shipped Separately (requires some field assembly) EGS External glare shield ⁶ EGFV External glare shield ⁶ EGFV External glare shield ⁸ BGS Bird spikes ¹⁸ | DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD | Dark Bronze Black Natural Aluminum White Textured Dark Bronze Textured Black Textured Natural Aluminum Textured White |

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 1 of 9

COMMERCIAL OUTDOOR

LITHONIA LIGHTING



NOTES

5

6

10

Ordering Information

Accessories

| RSX2HS | RSX2 House side shield (includes 2 shields) |
|-----------------------|----------------------------------------------|
| RSX2EGS (FINISH) U | External glare shield (specify finish) |
| RSX2HSAFRR (FINISH) U | RSX2 House side shields for AFR rotated op |
| RSX2EGFV (FINISH) U | External glare full visor (specify finish) |
| RSXRPA (FINISH) U | RSX Universal round pole adaptor plate (sp |
| RSXWBA (FINISH) U | RSX WBA wall bracket (specify finish) 1 |
| RSXSCB (FINISH) U | RSX Surface conduit box (specify finish, for |
| DLL127F 1.5 JU | Photocell -SSL twist-lock (120-277V) 19 |
| DLL347F 1.5 CUL JU | Photocell -SSL twist-lock (347V) 19 |
| DLL480F 1.5 CUL JU | Photocell -SSL twist-lock (480V) 19 |
| DSHORT SBK U | Shorting cap 19 |
| | |

External Shields



House Side Shield



208V, 240V or 480V. Maximum tilt is 90° above horizontal. It may be ordered as an accessory. Requires MVOLT or 347V.

Any Type 5 distribution, is not available with WBA. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). HVOLT driver operates on any line voltage from 347-480V (50/60 Hz). XVOLT driver operates on any line voltage from 347-480V (50/60 Hz). XVOLT driver not available with P1. XVOLT driver operates on any line voltage from 277V-480V (50/04 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.

Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, DS, PIRKH), Requires 120V, 208V, 240V, or 277V.



11 12 13

18 19

Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use. For units with option PERY, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C130-0210. DS ority available on performance package PS and P6. Must be ordered with PIRHN. Requires MVOLT or HVOLT. Must be ordered with NLTAR2. For additional information on PIRHN visit hare. Must be ordered with NLTAR2. For factory pre-drilling. Requires Invinaire to be specified with PER? option. Ordered and shipped as a separate line item from Acuity Brands Controls.

External 360 Full Visor

Pole/Mounting Informatiion

Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.

External Glare Shield

HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM & ADJUSTABLE ARM



Round Tenon Mount - Pole Top Slipfitters

| Tenon O.D. | RSX Mounting | Single | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | |
|------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2 - 3/8" | RPA, AARP | AS3-5 190 | AS3-5 280 | AS3-5 290 | AS3-5 320 | AS3-5 390 | AS3-5 490 |
| 2 - 7/8" | RPA, AARP | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | RPA, AARP | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Drill/Side Location by Configuration Type

| | | - | | • | | | - |
|-------------------|--------------------|--------|------------|------------|-----------------|---------------|------------------|
| Drilling Template | Mounting Option | Single | 2 @ 180 | | 3 @ 120 | | |
| | Head Location | Side B | Side B & D | Side B & C | Round Pole Only | Side B, C & D | Side A, B, C & D |
| #8 | Drill Nomenclature | DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |

RSX2 - Luminaire EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

| Fixture Quantity & Mo Configuration | ounting | Single | 2 @ 90 | 2 @ 180 | 3 @ 90 | 3 @ 120 | 4 @ 90 | 2 Side by Side | 3 Side by Side | 4 Side by Side |
|----------------------------------------|---------|--------|--------|---------|----------|--------------|--------|-------------------|-------------------|-------------------|
| Mounting Type | Tilt | -8 | • | | . | \mathbf{Y} | | | | |
| SPA - Square Pole Adaptor | 0 ° | 0.69 | 1.22 | 1.27 | 1.8 | 1.61 | 2.39 | 1.37 | 2.06 | 2.74 |
| RPA - Round Pole Adaptor | | 0.74 | 1.27 | 1.37 | 1.9 | 1.71 | 2.49 | 1.42 | 2.16 | 2.84 |
| MA - Mast Arm Adaptor | | 0.61 | 1.14 | 1.11 | 1.64 | 1.45 | 2.23 | 1.29 | 1.9 | 2.58 |
| | | | | | | | | | | |
| | 0° | 0.69 | 1.22 | 1.27 | 1.8 | 1.61 | 2.39 | 1.37 | 2.06 | 2.74 |
| | 10° | 0.53 | 1.06 | 1.05 | 1.58 | 1.37 | 2.08 | 1.06 | 1.59 | 2.12 |
| | 20° | 0.52 | 1.02 | 1.03 | 1.52 | 1.33 | 2.02 | 1.03 | 1.55 | 2.07 |
| | 30° | 0.64 | 1.11 | 1.18 | 1.63 | 1.45 | 2.21 | 1.27 | 1.91 | 2.54 |
| IS - Integral Slipfitter | 40° | 0.81 | 1.21 | 1.35 | 1.74 | 1.65 | 2.39 | 1.62 | 2.43 | 3.23 |
| AASP/AARP - Adjustable | 45° | 0.91 | 1.25 | 1.5 | 1.81 | 1.75 | 2.48 | 1.82 | 2.73 | 3.64 |
| Arm Square/Round Pole | 50° | 1.34 | 1.83 | 2.17 | 2.61 | 2.56 | 3.62 | 2.68 | 4.02 | 5.36 |
| | 60° | 2.2 | 2.97 | 3.57 | 4.24 | 4.17 | 5.89 | 4.41 | 6.61 | 8.82 |
| | 70° | 2.86 | 4.13 | 4.7 | 5.89 | 5.71 | 8.21 | 5.71 | 8.57 | 11.42 |
| | 80° | 3.4 | 5.13 | 5.67 | 7.34 | 7.09 | 10.21 | 6.79 | 10.19 | 13.59 |
| | 90° | 3.85 | 5.96 | 6.55 | 8.58 | 8.31 | 11.88 | 7.70 | 11.56 | 15.41 |





4

3

-1

-2

-3

-4

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.















Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.05 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |
| 45°C | 113°F | 0.96 |
| 50°C | 122°F | 0.95 |

Electrical Load

| Performance Package | System Watts (W) | 120V | 208V | 240V | 277V | 347V | 480V |
|---------------------|------------------|------|------|------|------|------|------|
| P1 | 71W | 0.59 | 0.34 | 0.30 | 0.26 | 0.20 | 0.15 |
| P2 | 111W | 0.93 | 0.53 | 0.46 | 0.40 | 0.32 | 0.23 |
| P3 | 147W | 1.23 | 0.70 | 0.61 | 0.53 | 0.42 | 0.31 |
| P4 | 187W | 1.55 | 0.90 | 0.78 | 0.68 | 0.53 | 0.38 |
| P5 | 210W | 1.75 | 1.01 | 0.87 | 0.76 | 0.60 | 0.44 |
| P6 | 244W | 2.03 | 1.17 | 1.01 | 0.88 | 0.70 | 0.51 |

Projected LED Lumen Maintenance

| • | | | |
|--------------------------|--------|--------|---------|
| Operating Hours | 50,000 | 75,000 | 100,000 |
| Lumen Maintenance Factor | >0.97 | >0.95 | >0.92 |

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED Rev. 06/14/21 Page 3 of 9



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance | System Watts | Distribution. | | (3000 | 30K IK, 70 CR | I) | | | (4000 | 40K)K, 70 CR | l) | | | (5000 | 50K K, 70 CR | l) | |
|-------------|--------------|---------------|--------|-------|------------------|-----|--------|--------|-------|------------------|-----|--------|--------|-------|-----------------|-----|-----|
| rackaye | | | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW |
| | | R2 | 10.040 | 2 | 0 | 1 | 139 | 11.031 | 2 | 0 | 1 | 153 | 11.031 | 2 | 0 | 1 | 153 |
| | | R3 | 10.005 | 2 | 0 | 2 | 141 | 10.992 | 2 | 0 | 2 | 155 | 10.992 | 2 | 0 | 2 | 155 |
| | | R3S | 10,271 | 2 | 0 | 2 | 143 | 11,285 | 2 | 0 | 2 | 157 | 11,285 | 2 | 0 | 2 | 157 |
| | | R4 | 10,136 | 2 | 0 | 2 | 143 | 11,136 | 2 | 0 | 2 | 157 | 11,136 | 2 | 0 | 2 | 157 |
| P1 | 71W | R4S | 9,779 | 2 | 0 | 2 | 138 | 10,744 | 2 | 0 | 2 | 151 | 10,744 | 2 | 0 | 2 | 151 |
| '' | /100 | R5 | 10,271 | 4 | 0 | 2 | 145 | 11,285 | 4 | 0 | 2 | 159 | 11,285 | 4 | 0 | 2 | 159 |
| | | R5S | 10,544 | 3 | 0 | 1 | 149 | 11,585 | 3 | 0 | 2 | 163 | 11,585 | 3 | 0 | 2 | 163 |
| | | AFR | 10,026 | 2 | 0 | 1 | 141 | 11,016 | 2 | 0 | 1 | 155 | 11,016 | 2 | 0 | 1 | 155 |
| | | AFRR90 | 10,122 | 3 | 0 | 2 | 140 | 11,121 | 3 | 0 | 2 | 154 | 11,121 | 3 | 0 | 2 | 154 |
| | | AFRL90 | 10,164 | 3 | 0 | 2 | 141 | 17,16/ | 3 | 0 | 2 | 155 | 17,16/ | 3 | 0 | 2 | 155 |
| | | KZ D2 | 15,/12 | 2 | 0 | 2 | 138 | 17,203 | 2 | 0 | 2 | 151 | 17,203 | 2 | 0 | 2 | 151 |
| | | D2C | 15,057 | 2 | 0 | 2 | 141 | 17,202 | 2 | 0 | 2 | 155 | 17,202 | 2 | 0 | 2 | 155 |
| | | R/ | 15,075 | 2 | 0 | 2 | 1/11 | 17,001 | 2 | 0 | 2 | 155 | 17,001 | 2 | 0 | 2 | 155 |
| | | R4S | 15,302 | 2 | 0 | 2 | 138 | 16 815 | 2 | 0 | 2 | 157 | 16 815 | 2 | 0 | 2 | 157 |
| P2 | 111W | R5 | 16.075 | 4 | 0 | 2 | 145 | 17,661 | 5 | 0 | 3 | 159 | 17,661 | 5 | 0 | 3 | 159 |
| | | R5S | 16,502 | 4 | 0 | 2 | 149 | 18,130 | 4 | 0 | 2 | 163 | 18,130 | 4 | 0 | 2 | 163 |
| | | AFR | 15,691 | 2 | 0 | 2 | 141 | 17,240 | 2 | 0 | 2 | 155 | 17,240 | 2 | 0 | 2 | 155 |
| | | AFRR90 | 15,841 | 3 | 0 | 3 | 139 | 17,404 | 4 | 0 | 3 | 153 | 17,404 | 4 | 0 | 3 | 153 |
| | | AFRL90 | 15,907 | 3 | 0 | 3 | 139 | 17,477 | 4 | 0 | 3 | 153 | 17,477 | 4 | 0 | 3 | 153 |
| | | R2 | 19,855 | 3 | 0 | 2 | 132 | 21,814 | 3 | 0 | 2 | 145 | 21,814 | 3 | 0 | 2 | 145 |
| | | R3 | 19,785 | 3 | 0 | 3 | 135 | 21,737 | 3 | 0 | 4 | 148 | 21,737 | 3 | 0 | 4 | 148 |
| | | R3S | 20,312 | 3 | 0 | 3 | 135 | 22,317 | 3 | 0 | 3 | 149 | 22,317 | 3 | 0 | 3 | 149 |
| | | R4 | 20,044 | 3 | 0 | 3 | 136 | 22,022 | 3 | 0 | 4 | 150 | 22,022 | 3 | 0 | 4 | 150 |
| P3 | P3 147W | R4S | 19,339 | 3 | 0 | 3 | 132 | 21,247 | 3 | 0 | 3 | 145 | 21,247 | 3 | 0 | 3 | 145 |
| | | K5 | 20,313 | 5 | 0 | 3 | 138 | 22,31/ | 5 | 0 | 3 | 152 | 22,317 | 5 | 0 | 3 | 152 |
| | | K55 | 20,852 | 4 | 0 | 2 | 142 | 22,910 | 4 | 0 | 2 | 140 | 22,910 | 4 | 0 | 2 | 140 |
| | | AFR | 19,626 | 2 | 0 | 2 | 122 | 21,/03 | 2 | 0 | 2 | 140 | 21,/03 | 2 | 0 | 2 | 140 |
| | | AFRI 90 | 20,017 | 4 | 0 | 3 | 133 | 21,332 | 4 | 0 | 3 | 147 | 21,392 | 4 | 0 | 3 | 147 |
| | | R2 | 22,836 | 3 | 0 | 2 | 120 | 25.090 | 3 | 0 | 2 | 132 | 25.090 | 3 | 0 | 2 | 132 |
| | | R3 | 22,756 | 3 | 0 | 4 | 120 | 25,002 | 3 | 0 | 4 | 134 | 25.002 | 3 | 0 | 4 | 134 |
| | | R3S | 23,363 | 3 | 0 | 3 | 123 | 25,668 | 3 | 0 | 3 | 135 | 25.668 | 3 | 0 | 3 | 135 |
| | | R4 | 23,054 | 3 | 0 | 4 | 123 | 25,329 | 3 | 0 | 4 | 135 | 25,329 | 3 | 0 | 4 | 135 |
| D/ | 197M | R4S | 22,243 | 3 | 0 | 3 | 119 | 25,059 | 3 | 0 | 3 | 134 | 25,059 | 3 | 0 | 3 | 134 |
| 14 | 107 W | R5 | 23,363 | 5 | 0 | 3 | 125 | 25,669 | 5 | 0 | 4 | 137 | 25,669 | 5 | 0 | 4 | 137 |
| | | R5S | 23,983 | 4 | 0 | 2 | 128 | 26,350 | 4 | 0 | 2 | 141 | 26,350 | 4 | 0 | 2 | 141 |
| | | AFR | 22,806 | 3 | 0 | 2 | 122 | 25,056 | 3 | 0 | 2 | 134 | 25,056 | 3 | 0 | 2 | 134 |
| | | AFRR90 | 23,023 | 4 | 0 | 3 | 121 | 25,295 | 4 | 0 | 3 | 133 | 25,295 | 4 | 0 | 3 | 133 |
| | | AFRL90 | 23,120 | 4 | 0 | 3 | 122 | 25,401 | 4 | 0 | 3 | 134 | 25,401 | 4 | 0 | 3 | 134 |
| | | KZ D2 | 26,141 | 3 | 0 | 2 | 122 | 28,/21 | 3 | 0 | 2 | 135 | 28,/21 | 3 | 0 | 2 | 135 |
| | | D2C | 26,049 | 2 | 0 | 4 | 124 | 20,020 | 2 | 0 | 4 | 120 | 20,020 | 2 | 0 | 4 | 120 |
| | | R4 | 26,744 | 3 | 0 | 4 | 125 | 29,303 | 3 | 0 | 4 | 130 | 29,505 | 3 | 0 | 4 | 138 |
| | | R4S | 25,462 | 3 | 0 | 3 | 120 | 20,004 | 3 | 0 | 3 | 133 | 20,554 | 3 | 0 | 7 | 133 |
| P5 | 210W | R5 | 26 744 | 5 | 0 | 4 | 127 | 29 383 | 5 | 0 | 4 | 140 | 29 383 | 5 | 0 | 4 | 140 |
| | | R5S | 27,454 | 4 | 0 | 2 | 131 | 30,163 | 4 | 0 | 2 | 144 | 30,163 | 4 | 0 | 2 | 144 |
| | | AFR | 26,106 | 3 | 0 | 2 | 124 | 28,682 | 3 | 0 | 2 | 137 | 28,682 | 3 | 0 | 2 | 137 |
| | | AFRR90 | 26,354 | 4 | 0 | 3 | 123 | 28,955 | 5 | 0 | 3 | 136 | 28,955 | 5 | 0 | 3 | 136 |
| | | AFRL90 | 26,465 | 4 | 0 | 3 | 124 | 29,077 | 5 | 0 | 3 | 136 | 29,077 | 5 | 0 | 3 | 136 |
| | | R2 | 27,646 | 3 | 0 | 2 | 112 | 30,374 | 3 | 0 | 2 | 123 | 30,374 | 3 | 0 | 2 | 123 |
| | | R3 | 27,549 | 3 | 0 | 4 | 113 | 30,267 | 3 | 0 | 4 | 124 | 30,267 | 3 | 0 | 4 | 124 |
| | | R3S | 28,283 | 3 | 0 | 3 | 115 | 31,075 | 3 | 0 | 4 | 126 | 31,075 | 3 | 0 | 4 | 126 |
| | | R4 | 27,909 | 3 | 0 | 4 | 114 | 30,663 | 3 | 0 | 4 | 126 | 30,663 | 3 | 0 | 4 | 126 |
| P6 | 244W | R4S | 26,928 | 3 | 0 | 3 | 110 | 29,585 | 3 | 0 | 3 | 121 | 29,585 | 3 | 0 | 3 | 121 |
| - | | R5 | 28,284 | 5 | 0 | 4 | 116 | 31,075 | 5 | 0 | 4 | 127 | 31,075 | 5 | 0 | 4 | 127 |
| | | K5S | 29,035 | 4 | 0 | 2 | 119 | 31,900 | 5 | 0 | 3 | 131 | 31,900 | 5 | 0 | 3 | 131 |
| | | AFK | 27,608 | 3 | 0 | 2 | 112 | 30,332 | 5 | 0 | 2 | 123 | 30,332 | 5 | 0 | 2 | 123 |
| | | AFKK90 | 27,872 | 4 | 0 | 3 | 113 | 30,622 | 5 | 0 | 3 | 124 | 30,622 | 5 | 0 | 3 | 124 |
| | ALINE90 | 21,707 | 4 | 0 | 1 2 | 113 | 30,/31 | 1 3 | 0 | 1 2 | 120 | 30,731 |) | U | 2 | 123 | |





Luminaire Weight by Mounting Type

| Mounting Configuration | Total Luminaire Weight |
|------------------------|------------------------|
| SPA | 30 lbs |
| RPA | 32 lbs |
| MA | 30 lbs |
| WBA | 33 lbs |
| WBASC | 36 lbs |
| IS | 33 lbs |
| AASP | 33 lbs |
| AARP | 35 lbs |
| AAWB | 36 lbs |
| AAWSC | 39 lbs |

RSX2 with Round Pole Adapter (RPA)



Length: 30.3" (77.0 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm

RSX2 with Mast Arm Adapter (MA)





7/16" locking thru bolt/nut provided

Note: RPA — Round Pole mount can also be

used to mount on square poles by omitting

the round pole adapter plate shown here.

Length: 30.6" (77.7 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 3.5" (8.9 cm) Arm

RSX2 with Adjustable Slipfitter (IS)







Length: 28.3" (71.9 cm) Width: 13.4" (34.0 cm) Height: 3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm



LIGHTING

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 5 of 9



RSX2 with Wall Bracket (WBA)



Length: 31.2" (79.2 cm) Width: 13.4" (41.7 cm) Height: 3.0" (7.6 cm) Main Body 8.9" (22.6 cm) Arm





Wall Bracket (WBA) Mounting Detail



RSX2 with Wall Bracket with Surface Conduit Box (WBASC)







3/4" NPT taps with plugs - Qty (4) provided

Surface Conduit Box (SCB) Mounting Detail

Length: 32.8" (83.3 cm) Width: 13.4" (41.7 cm) Height: 3.0" (7.6 cm) Main Body 9.2" (23.4 cm) Arm







RSX2 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



Notes

AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°. AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

RSX2 with Adjustable Tilt Arm with Wall Bracket (AAWB)





One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 7 of 9



RSX2 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



Additional Reference Drawings





(Example: 2@180 - arrows indicate direction of light exiting the luminaire)





nLight Control - Sensor Coverage and Settings



| | | | Motion Sensor Def | ault Settings - Option PIRHN | | |
|---------------|------------------------------|-------------------------------|------------------------|--------------------------------------|-----------------------------------------------|-------------------------------------------------|
| Option | Dimmed State (unoccupied) | High Level (when occupied) | Photocell Operation | Dwell Time (occupancy time delay) | Ramp-up Time (from unoccupied to occupied) | Ramp-down Time (from occupied to unoccupied) |
| NLTAIR2 PIRHN | Approx. 30% Output | 100% Output | Enabled @ 1.5FC | 7.5 minutes | 3 seconds | 5 minutes |

*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is titled.

FEATURES & SPECIFICATIONS

INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-forone replacement of existing metal halide or high pressure sodium lighting. The RSX2 delivers 11,000 to 31,000 lumens and is ideal for replacing 250W to 1000W HID pole-mounted luminaires in parking lots and other area lighting applications.

CONSTRUCTION AND DESIGN

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heatdissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP&6. The low-profile design results in a low EPA, allowing pole optimization. Vibration rated per ANSI C136.31: 3G Mountings: Include SPA, RPA, MA, IS, AASP, AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 3, Type 4, Type 45, Type 55, AFR (Automotive Front Row) and AFR rotated AFR90 and ARFL90.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >1927/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category CLow operation (per ANSI/ IEEE C62.41.2).

STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default outof-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-to-use CLAIRITY app. nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

INSTALLATION Integral "no-chill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "S" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium[®] (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acutybrands.com/buy-american for additional information.

WARRANTY

WARRANIY

5-year limited warranty. Complete warranty terms located at:

Note: Actual performance may differ as a result of end-user environment and application All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX2 Area LED Rev. 06/14/21 Page 9 of 9





FEATURES & SPECIFICATIONS

INTENDED USE — The STL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced surface-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Impact modified linear-faceted refractor with light diffusing film. Refractor attaches to die cast ends by simple hook and pin design with controlled tension provided by sonically welded end plate, providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: All metal parts are post-painted in white polyester powder coat for smooth, finished edges and uniform light distribution. Natural aluminum finish available on end caps (see Options).

Injection-molded plastic light traps prevent light leaks between shielding and end plates and centers diffuser on channel.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to vertical and horizontal work surfaces, rendering interior space, objects and occupants in a more balanced luminous environment. Light distribution is carefully controlled at high angles, providing just enough luminous flux to create the volumetric effect.

Angled mounting surface combined with crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. STL is rated to deliver L90 performance at 60,000 hours. The LEDs have a CRI of 82.

eldoLED driver options deliver choice of dimming range and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional nLight* embedded controls continuously monitor system performance, allow for constant lumen management / compensation function, facilitate simple "plug-and-play" network and controls upgrading via (at-5 cable. Ballast disconnect provided where required to comply with US and Canadian codes.

LISTINGS — CSA certified to meet U.S. and Canadian standards.

DesignLights Consortium[®] (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

Patents pending. Damp listed.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice. Catalog Number Notes

Туре

S

Surface Volumetric

SERIES



4' LED



Section 24 Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight[®] control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit <u>www.acuitybrands.com/aplus</u>.

*See ordering tree for details



STL4 LED Surface Volumetric

A+ Capable options indicated

| CAPARO | by this color ba | ckyrounu. | | | | | | | | | | | | |
|--------|---------------------------------|---------------------------------|----------------|---------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------|
| ORDER | ING INFORM | ATION | Lead tim | nes will var | y dependi | ing on options se | lected. Cor | nsult with your | sales represe | ntative. | | Example: | STL4 20L | EZ1 LP840 |
| STL4 | | | | | | | | | | | | | | |
| Series | | Lumens ¹ | Voltage | | Driver | | Color te | mperature | Control | | Options | | Finish ^s | |
| STL4 | 4' surface volumetric LED | 20L 30L 40L 48L 60L | (blank) 347 | MVOLT (120- 277) 347V ² | EZ1 EZB SLD GZ10 | eldoLED dims to 1%, 0-10V eldoLED dims to dark, 0-10V Step-level dimming ³ Dims to 10% (0-10V dimming) ⁶ | LP830 LP835 LP840 LP850 | 3000K 3500K 4000K 5000K | (blank) N80 N80EMG N100 N100EMG LSXRHL LSXR10 | No controls Night with 80% (L80) lumen management nLight with 80% (L80) lumen management for use with generator supply EM power nLight without lumen management for use with generator supply EM power Sensor Switch® fixture mount sensor with High/ Low occupancy operation ⁴ Sensor Switch® fixture mount sensor with On/Off occupancy operation | EL7L EL14L E10WLCP SC1 SC2 BDP | 700 nominal lumen battery pack (Noncompliant with (A T20) 1400 nominal lumen battery pack (Noncompliant with (A T20) EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS Surface conduit end cap provisions for one endcap Surface conduit end caps provisions for bath end caps Factory Installed Ballast Disconnect Plug | (blank) DNA MB | White Natural aluminum Matte Black |

| () Codo | Madal | Vit Tuno | Voltago | Dimming | Longth | Coiling Tupot |
|---------|-----------------|-----------------------------------|-----------|-----------------|--------------------|---------------|
| CI Code | Model | кістуре | voitage | Dimming | Length | Centing Type |
| *211L5F | STLCR | Continuous Row Connector | NA | NA | NA | NA |
| *208XVT | STACG36 F1 | | | | 36 inch | F1 |
| *208XVY | STACG36 F2 | Adjustable aircraft cable gripper | NA | NA | 50 IIICII | F2 |
| *208XW2 | STACG72 F1 | suspension kit | | INA | 70 in ch | F1 |
| *208XVW | STACG72 F2 | | | | 72 INCN | F2 |
| *208XW7 | STACGF36 F1 | | | | 2C in ch | F1 |
| *208XVV | STACGF36 F2 | | | New Discussion | 30 IIICII | F2 |
| *208XW3 | STACGF72 F1 | | | Non-Dimming | 72 : | F1 |
| *208XW0 | STACGF72 F2 | | 120 2771/ | | 72 INCH | F2 |
| *2594WC | STACGFD36 F1 | | 120-2/70 | - 0-10V Dimming | 26 in th | F1 |
| *2594WK | STACGFD36 F2 | Adjustable aircraft cable gripper | | | 72 inch 36 inch | F2 |
| *2594WP | STACGFD72 F1 | w/power feed | | | | F1 |
| *2594WV | STACGFD72 F2 | | | | | F2 |
| *2594X0 | STACG347FD36F1 | | | | | F1 |
| *2594YJ | STACG347FD36 F2 | | 2471/ | | | F2 |
| *2594YK | STACG347FD72 F1 | | 34/V | | 70 : | F1 |
| *2594YN | STACG347FD72 F2 | | | | 72 inch | F2 |
| *210AC1 | STACGE36 F1 | | | | 241 | F1 |
| *210CN1 | STACGE36 F2 | Adjustable aircraft cable gripper | 420.2771/ | | 36 INCN | F2 |
| *210AAV | STACGE72 F1 | w/emergency power feed | 120-2//V | Non-vimming | 70.1 | F1 |
| *210CMP | STACGE72 F2 | | | | 72 inch | F2 |

Notes

1 Approximate lumen output.

 Not available with EL battery packs or SLD driver.
 Not available with controls options
 Requires SC1 option. Dims to approximately 10% light output when unoccupied. See sensor details on next page.

For additional paint finishes refer to: <u>Architectural Colors</u>.
 GZ10 drivers not available with any Controls or sensor options.

*Reference mounting data for ceiling type

🖊 LITHONIA LIGHTING



STL4 LED Surface Volumetric

| Performance Data | | | | | | | |
|------------------|--------------------------|--------|-------|--|--|--|--|
| Lumen Package | Input Watts ¹ | Lumens | LPW | | | | |
| 30L LP830 | 26.7 | 2904 | 108.8 | | | | |
| 30L LP835 | 26.7 | 3049 | 114.2 | | | | |
| 30L LP840 | 26.7 | 3195 | 119.7 | | | | |
| 30L LP850 | 26.7 | 3282 | 122.9 | | | | |
| 40L LP830 | 34.9 | 3688 | 105.7 | | | | |
| 40L LP835 | 34.9 | 3834 | 109.9 | | | | |
| 40L LP840 | 34.9 | 3979 | 114.0 | | | | |
| 40L LP850 | 34.9 | 4124 | 118.2 | | | | |
| 48L LP830 | 45.2 | 4615 | 102.1 | | | | |
| 48L LP835 | 45.2 | 4850 | 107.3 | | | | |
| 48L LP840 | 45.2 | 5088 | 112.6 | | | | |
| 48L LP850 | 45.2 | 5184 | 114.7 | | | | |
| 60L LP830 | 53.2 | 5294 | 99.5 | | | | |
| 60L LP835 | 53.2 | 5559 | 104.5 | | | | |
| 60L LP840 | 53.2 | 5811 | 109.2 | | | | |
| 60L LP850 | 53.2 | 5954 | 111.9 | | | | |

| Z | |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| | Sensor Switch LSXR Sensor |
| Lens type: Dimming: Min Dim Level: Time Delay: | 10 - Low Mount 360° HL - High/Low Occupancy operation 3V - approximately 10% light output when unoccupied 5M - 5 minutes |

How to Calculate Delivered Lumens in Emergency Mode Use the formula below to determine the delivered lumens in

emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for E10WLCP option. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

MOUNTING DATA

Suspension Kit Ceiling Types: F1 for use with most T-bar and screw slot grid ceiling applications. Designed for on-grid and off-grid installations.

F2 for use with recessed or surface-mount horizontal J-box applications.

For unit or row installation; surface or suspend mounting.

Individual installation — Two single-stem hangers required.

For aircraft cable, one STACG_, STACGF_, or STACGE_ required for each suspension point.

Row installation — Order one (1) STLCR accessory per fixture for continuous row applications. Not required for last fixture in row. One hanger per fixture plus one per row required.

Note: 2' configurations with emergency option cannot be stem mounted.

See ACCESSORIES below for hanging devices.



DIMENSIONS

All dimensions are inches (centimeters) unless otherwise noted.

| | Specifications |
|---------|----------------|
| Length: | 46-3/8 (117.8) |
| Width: | 10-1/8 (25.7) |
| Depth: | 3-7/8 (9.8) |
| Weight: | 13LB |

A = 1/4 x 1/2 (.635 x 1.27) Oval Hole B = 11/16 (1.75) Dia. K.O. C = 7/8 (2.22) Dia.K.O.

| 3-1/2 (8-5) 2-5/8 (6.7) (4.8) | (118.) | 23 (58.4) | (8.9) (5.7) (5.7) (4.4) |
|-------------------------------------------|--------|--------------|----------------------------------|
| | | , , | |
| | |) c | , E |



XSP Series XSPWTM LED Wall Mount Luminaire featuring Cree TrueWhite® Technology

Product Description

The XSPW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall mounted applications. The rugged lightweight aluminum housing and mounting box are designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes. The luminaire allows for through-wired or conduit entry from the top, bottom, sides and rear. The housing design is intended specifically for LED technology including a weathertight LED driver compartment and thermal management. Optic design features industry-leading NanoOptic® Precision Delivery Grid™ system in multiple distributions.

Applications: General area and security lighting

Performance Summary

NanoOptic[®] Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty⁺: 10 years on luminaire/10 years on Colorfast DeltaGuard[®] finish

[†]See <u>http://creelighting.com/warranty</u> for warranty terms

Accessories

Field-Installed

** Must specify color

Beauty Plate WM-PLT12** - 12" (305mm) Square WM-PLT14** - 14" (356mm) Square - Covers holes left by incumbent wall packs Hand-Held Remote XA-SENSREM

For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required







(ordered as an option)

| Lumen Package | Weight |
|---------------|-------------------|
| 2L, 4L, 6L | 11.0 lbs. (5.0kg) |
| 8L | 11.8 lbs. (5.4kg) |

Ordering Information

Example: XSPW-B-WM-2ME-2L-30K-UL-BK

| XSPW | В | WМ | | | | | | |
|---------|---------|------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product | Version | Mounting | Optic | Lumen Package* | ССТ | Voltage | Color Options | Options |
| XSPW | B | WM Wall | 2ME Type III Medium 3ME Type III Medium 4ME Type IV Medium | 2L 2.490 lumens 4L 4.270 lumens 6L 6,100 lumens 8L 8,475 lumens | 30K 3000K - 70 CRI 40K 4000K - 70 CRI 50K 5000K - 90 CRI 5700K - 70 CRI | UL Universal 120-277V UH Universal 347-480V 34 347V - For use with P option only | BK Black BZ Bronze SV Silver WH White | ML Multi-Level - Refer to ML spec sheet for details - Available with UL voltage only P Button Photocell - Nat available with ML or PML options - Available with UL and 34 voltages only PML Programmable Multi-Level - Refer to PML spec sheet for details - Available with UL voltage only |

* Lumen Package selection codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values









CREE 🗢 LIGHTING

US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234





XSPW™ LED Wall Mount Luminaire

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy - a true no compromise solution. **CONSTRUCTION & MATERIALS**

• Slim, low profile design

- Luminaire housing specifically designed for LED applications with advanced LED thermal management and driver
- Luminaire mounting box designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes
- · Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- · Conduit entry from top, bottom, sides, and rear
- Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, black, white and bronze are available
- Weight: 2L, 4L, 6L 11.0 lbs. (5.0kg); 8L 11.8 lbs. (5.4kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- 10V Source Current: 0.15 mA
- Refer to <u>Dimming spec sheet</u> for details
- Operating Temperature Range: -40°C +50°C (-40°F +122°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Designed for downlight applications only
- Enclosure rated IP66 per IEC 60598
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- · Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT. Please refer to https://www.darksky.org/our-work/lighting/lighting-forindustry/fsa/fsa-products/ for most current information
- DLC and DLC Premium qualified versions available. Please refer to https://www.designlights.org/search/ for most current information CA RESIDENTS WARNING: Cancer and Reproductive Harm -

www.p65warnings.ca.gov

| Electrica | l Data* | | | | | | | | | | |
|-----------|------------|-----------------|----------|-------------------|------|------|------|------|------|--|--|
| Lumen | | System Watts | Efficacy | Total Current (A) | | | | | | | |
| Package | CCI/CRI | 120- 480V | Enicacy | 120V | 208V | 240V | 277V | 347V | 480V | | |
| | 30K/70 CRI | 20 | 125 | 0.17 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | | |
| 01 | 40K/70 CRI | 19 | 131 | 0.16 | 0.09 | 0.08 | 0.07 | 0.06 | 0.04 | | |
| ZL | 50K/90 CRI | 24 | 104 | 0.20 | 0.11 | 0.10 | 0.08 | 0.07 | 0.05 | | |
| | 57K/70 CRI | 19 | 131 | 0.16 | 0.09 | 0.08 | 0.07 | 0.06 | 0.04 | | |
| | 30K/70 CRI | 33 | 129 | 0.28 | 0.16 | 0.14 | 0.13 | 0.10 | 0.07 | | |
| | 40K/70 CRI | 31 | 138 | 0.27 | 0.15 | 0.13 | 0.12 | 0.09 | 0.07 | | |
| 4L | 50K/90 CRI | 40 | 107 | 0.34 | 0.20 | 0.17 | 0.16 | 0.12 | 0.09 | | |
| | 57K/70 CRI | 31 | 138 | 0.26 | 0.15 | 0.13 | 0.12 | 0.09 | 0.07 | | |
| | 30K/70 CRI | 51 | 120 | 0.43 | 0.25 | 0.22 | 0.19 | 0.14 | 0.11 | | |
| | 40K/70 CRI | 47 | 130 | 0.40 | 0.23 | 0.20 | 0.18 | 0.14 | 0.10 | | |
| 6L | 50K/90 CRI | 60 | 102 | 0.51 | 0.29 | 0.25 | 0.23 | 0.17 | 0.13 | | |
| | 57K/70 CRI | 47 | 130 | 0.40 | 0.23 | 0.20 | 0.17 | 0.14 | 0.10 | | |
| | 30K/70 CRI | 77 | 110 | 0.65 | 0.38 | 0.32 | 0.28 | 0.22 | 0.16 | | |
| 01 | 40K/70 CRI | 72 | 118 | 0.61 | 0.35 | 0.31 | 0.27 | 0.21 | 0.15 | | |
| δL | 50K/90 CRI | 78 | 89 | 0.66 | 0.37 | 0.33 | 0.29 | 0.22 | 0.16 | | |
| | 57K/70 CRI | 71 | 119 | 0.60 | 0.35 | 0.30 | 0.26 | 0.20 | 0.15 | | |

+/- 10%

XSPW Series Ambient Adjusted Lumen Maintenance Factors¹

| Ambient | Initial LMF | 25K hr Reported ² LMF | 50K hr Reported ² LMF | 75K hr Estimated³ LMF | 100K hr Estimated ³ LMF |
|--------------|----------------|----------------------------------------|----------------------------------------|-----------------------------|------------------------------------------|
| 5°C (41°F) | 1.03 | 0.98 | 0.96 | 0.94 | 0.92 |
| 10°C (50°F) | 1.03 | 0.98 | 0.96 | 0.94 | 0.92 |
| 15°C (59°F) | 1.02 | 0.97 | 0.95 | 0.93 | 0.92 |
| 20°C (68°F) | 1.01 | 0.96 | 0.95 | 0.93 | 0.91 |
| 25°C (77°F) | 1.00 | 0.96 | 0.94 | 0.92 | 0.90 |
| 30°C (86°F) | 0.99 | 0.95 | 0.93 | 0.91 | 0.89 |
| 35°C (95°F) | 0.98 | 0.94 | 0.92 | 0.90 | 0.88 |
| 40°C (104°F) | 0.97 | 0.93 | 0.91 | 0.89 | 0.87 |

¹Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors [LATF] have been applied to all lumen maintenance factors. Please refer to the <u>Temperature Zone Reference Document</u> for outdoor average nighttime ambient conditions

conditions. ¹ In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED. ³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.





XSPW™ LED Wall Mount Luminaire

Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <u>http://creelighting.com/products/outdoor/wall-mount/xsp-series-wall</u>

2ME





CESTL Test Report #: PL12798-001A XSPW-B-**-2ME-8L-40K-UL Initial Delivered Lumens: 8,622

| Type II Medium [| Type II Medium Distribution | | | | | | | | | |
|------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|--|--|
| | 3000K | | 4000K | | 5000K | | 5700K | | | |
| Lumen Package | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | | |
| 2L | 2,490 | B1 U0 G1 | | |
| 4L | 4,270 | B1 U0 G1 | | |
| 6L | 6,100 | B1 U0 G2 | | |
| 8L | 8,475 | B2 U0 G2 | 8,475 | B2 U0 G2 | 6,925 | B1 U0 G2 | 8,475 | B2 U0 G2 | | |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <u>https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf</u>

3ME



CESTL Test Report #: PL12366-007A XSPW-B-**-3ME-8L-40K-UL Initial Delivered Lumens: 8,543



XSPW-B-**-3ME-8L-40K-UL Mounting Height: 15' (4.6m) A.F.G. Initial Delivered Lumens: 8,475 Initial FC at grade

| Type III Medium Distribution | | | | | | | | | |
|------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|--|
| | 3000K | | 4000K | | 5000K | | 5700K | | |
| Lumen Package | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | |
| 2L | 2,490 | B1 U0 G1 | |
| 4L | 4,270 | B1 U0 G1 | |
| 6L | 6,100 | B1 U0 G2 | |
| 8L | 8,475 | B2 U0 G2 | 8,475 | B2 U0 G2 | 6,925 | B1 U0 G2 | 8,475 | B2 U0 G2 | |
| | | | | | | | | | |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <u>https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf</u>

US: <u>creelighting.com</u> (800) 236-6800 Canada: <u>creelighting-canada.com</u> (800) 473-1234

CREE LIGHTING



XSPW™ LED Wall Mount Luminaire

Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <u>http://creelighting.com/products/outdoor/wall-mount/xsp-series-wall</u>

4ME





XSPW-B-**-4ME-8L-40K-UL Mounting Height: 15' (4.6m) A.F.G. Initial Delivered Lumens: 8,475 Initial FC at grade

RESTL Test Report #: PL14415-001A XSPW-B-**-4ME-8L-40K-UL Initial Delivered Lumens: 8,763

| Type IV Medium Distribution | | | | | | | | | |
|-----------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|--|
| | 3000K | | 4000K | | 5000K | | 5700K | | |
| Lumen Package | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | |
| 2L | 2,490 | B1 U0 G1 | |
| 4L | 4,270 | B1 U0 G1 | |
| 6L | 6,100 | B1 U0 G2 | |
| 8L | 8,475 | B1 U0 G2 | 8,475 | B1 U0 G2 | 6,925 | B1 U0 G2 | 8,475 | B1 U0 G2 | |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

© 2020 Cree Lighting, A company of IDEAL INDUSTRIES. All rights reserved. For informational purposes only. Content is subject to change. Patent www.creelighting.com/patents. Cree®, TrueWhite®, Cree TrueWhite®, the Cree TrueWhite Technology logo and the Cree logo are registered trademarks of Cree, Inc. NanoOptic® and Colorfast DeltaGuard® are registered trademarks, and XSPW^M and Precision Delivery Grid™ are trademarks of Cree Lighting, A company of IDEAL INDUSTRIES. The UL logo is a registered trademark of UL LLC. The DLC QPL logo and the DLC QPL Premium logo are registered trademarks of Efficiency Forward, Inc.



A COMPANY OF IDEAL INDUSTRIES, INC.

US: <u>creelighting.com</u> (800) 236-6800 Canada: <u>creelighting-canada.com</u> (800) 473-1234

PHILIPS

Recessed

EvoKit LED Retrofit Kit Gen 5

Philips EvoKit LED Retrofit kit gen 5 is an energy efficient LED alternative to traditional linear fluorescent troffers that also helps reduce maintenance costs due to its long lifetime. Simple construction helps decrease installation times offering an installed LED solution within minutes.

Products can be found on the DLC QPL by searching the 6 digit product number. Additional information can be found at www.philips.com/evokit.

EvoKit with 0-10V Dimming ordering guide

| | Product No. (6NC) | Model No. (12NC) | Description | Watts (W) ¹ | Volts (V) | Lumen Maintenance (hours)² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) |
|---|----------------------|---------------------|---------------------------------------|---------------------------|--------------|----------------------------------|----------------------------------------|-----------------------|--------------------|
| | 0-10V Dimm | ning | 1 | | | | | | |
| ٠ | 527978 | 929002714213 | EvoKit 2x2 21L 15W 835 UNV 0-10 G5 | 15W | 120-277 | 70,000 | 2100 | 3500 | 140 |
| ٠ | 527986 | 929002714313 | EvoKit 2x2 21L 14W 840 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 4000 | 150 |
| | 527994 | 929002714413 | EvoKit 2x2 21L 14W 850 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 5000 | 150 |
| ٠ | 528000 | 929002714513 | EvoKit 2x2 31L 22W 835 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| ٠ | 528018 | 929002714613 | EvoKit 2x2 31L 22W 840 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 4000 | 141 |
| | 528026 | 929002714713 | EvoKit 2x2 31L 22W 850 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 5000 | 141 |
| | 528455 | 929002719013 | EvoKit 2x2 31L 23W 935 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| | 528034 | 929002714813 | EvoKit 2x4 36L 25W 835 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 3500 | 144 |
| ٠ | 528042 | 929002714913 | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 4000 | 144 |
| | 528059 | 929002715013 | EvoKit 2x4 36L 25W 850 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 5000 | 144 |
| ٠ | 528067 | 929002715113 | EvoKit 2x4 42L 28W 835 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 145 |
| ٠ | 528075 | 929002715213 | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 |
| | 528083 | 929002715313 | EvoKit 2x4 42L 28W 850 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 5000 | 150 |
| | 528463 | 929002719113 | EvoKit 2x4 42L 32W 935 UNV 0-10 G5 | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 |
| | High Efficier | ncy 0-10 V Dimmin | g | | | | | | |
| ٠ | 528091 | 929002715413 | EvoKit HE 2x2 21L 14W 835 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 3500 | 153 |
| ٠ | 528109 | 929002715513 | EvoKit HE 2x2 21L 13W 840 UNV 0-10 G5 | 13W | 120-277 | 70,000 | 2100 | 4000 | 162 |
| ٠ | 528125 | 929002715713 | EvoKit HE 2x2 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 |
| ٠ | 528133 | 929002715813 | EvoKit HE 2x2 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| | 528141 | 929002715913 | EvoKit HE 2x2 31L 20W 850 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 |
| | 528158 | 929002716013 | EvoKit HE 2x4 30L 19W 835 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 3500 | 158 |
| | 528166 | 929002716113 | EvoKit HE 2x4 30L 19W 840 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 4000 | 158 |
| ٠ | 528174 | 929002716213 | EvoKit HE 2x4 36L 23W 835 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3600 | 3500 | 157 |
| ٠ | 528182 | 929002716313 | EvoKit HE 2x4 36L 22W 840 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3600 | 4000 | 164 |
| ٠ | 528208 | 929002716513 | EvoKit HE 2x4 42L 26W 835 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 158 |
| ٠ | 528216 | 929002716613 | EvoKit HE 2x4 42L 26W 840 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 |
| | 528224 | 929002716713 | EvoKit HE 2x4 42L 26W 850 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 |
| | 528232 | 929002716813 | EvoKit HE 2x4 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| | 528240 | 929002716913 | EvoKit HE 2x4 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| | 0-10V Step | Dimming | | | | | | | |
| | 528299 | 929002717413 | EvoKit HE 2x2 31L 22W 835 UNV STEP G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 142 |
| | 528307 | 929002717513 | EvoKit HE 2x2 31L 21W 840 UNV STEP G5 | 21W | 120-277 | 70,000 | 3100 | 4000 | 148 |
| | 528315 | 929002717613 | EvoKit HE 2x4 42L 28W 835 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 150 |
| | 528323 | 929002717713 | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 |
| | See footnotes (| n the last nage | 1 | 1 | 1 | 1 | | | I |

EvoKit Gen 5 Spec 04/21 page 1 of 6



Project:

Cat.No:

Type:

Lamps:

Notes:

Qty:



EvoKit with Spacewise SWZDT ordering guide

| Product No. (6NC) | Model No. (12NC) | Description | Watts (W) ¹ | Volts (V) | Lumen Maintenance (hours) ² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) |
|----------------------|---------------------|----------------------------------------|---------------------------|--------------|----------------------------------------------|----------------------------------------|-----------------------|--------------------|
| Spacewise S | SWZDT | | | | | | . , | |
| 528471 | 929002719213 | EvoKit 2x2 31L 23W 935 UNV SWZDT G5 | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| 528489 | 929002719313 | EvoKit 2x4 42L 32W 935 UNV SWZDT G5 | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 |
| High Efficier | ncy Spacewise SW | ZDT | | | | | | |
| 528331 | 929002717813 | EvoKit HE 2x2 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 |
| 528349 | 929002717913 | EvoKit HE 2x2 31L 20W 840 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528356 | 929002718013 | EvoKit HE 2x2 31L 20W 850 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 |
| 528380 | 929002718313 | EvoKit HE 2x4 42L 26W 835 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 159 |
| 528398 | 929002718413 | EvoKit HE 2x4 42L 26W 840 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 |
| 528406 | 929002718513 | EvoKit HE 2x4 42L 26W 850 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 |
| 528414 | 929002718613 | EvoKit HE 2x4 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528422 | 929002718713 | EvoKit HE 2x4 47L 30W 840 UNV SWZDT G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| See footnotes of | on the last page. | | | | | | | |

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Granular dimming (occupancy sharing)
- Dwell time
- Scene setting
- Configuration of sensor parametersif desired – using NFC or IR via intuitive Android-based Philips field apps
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and
- auto-off/partial-on application
- DLC qualified: Listed on the QPL for Networked Lighting Controls

Benefits

- Installation savings integral wireless controls factory installed. No need to order separate components.
- Minimal startup and configuration
- expertise savings on labor time & effort • Deep energy savings & code compliance
- strategies

 Faster ROI with attractive payback periods
- (varies depending on luminiare choices)

Applications

Conference rooms, individual offices, open offices, classrooms, storage and break areas, restrooms, lobbies.

SpaceWise wireless switch

To complete the SpaceWise System a wireless switch may be added.

Ordering code: UID8451/10



New configuration tool

An Android phone is needed for commissioning the system. Please refer to www.usa.lighting.philips.com/systems/lighting systems/spacewise for full list of compatible phones.



EvoKit Gen 5 Spec 04/21 page 2 of 6

Refer to the website for registration details:

www.usa.lighting.philips.com/support/support/tools/

Sensor parameters can be configured via Philips field apps. Two versions are available:

- 1. **NFC** This app allows configuring sensor parameters only when you can physically access the sensor with a smartphone.
- IR This app allows configuring sensor parameters plus enables grouping to a wireless switch, which can be done with the IR feature of applicable phones from floor level.

You must first register for the app to receive a username and password, then download Philips field apps from the Google Play Store.



EvoKit with air return ordering guide

| Product No. (6NC) | Model No. (12NC) | Description | Watts (W) ¹ | Volts (V) | Lumen Maintenance (hours) ² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) |
|----------------------|---------------------|------------------------------------------|---------------------------|--------------|----------------------------------------------|----------------------------------------|-----------------------|--------------------|
| High Efficier | ncy 0-10 V Dimmin | g - Air Return | | 1 | | | I | |
| 528257 | 929002717013 | Evokit HE 2x2 A 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 |
| 528265 | 929002717113 | Evokit HE 2x2 A 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528273 | 929002717213 | Evokit HE 2x4 A 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528281 | 929002717313 | Evokit HE 2x4 A 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| High Efficier | ncy Spacewise - Ai | r Return | | | | | | |
| 528364 | 929002718113 | Evokit HE 2x2 A 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 |
| 528372 | 929002718213 | Evokit HE 2x2 A 31L 20W 840 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528430 | 929002718813 | Evokit HE 2x4 A 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528448 | 929002718913 | Evokit HE 2x4 A 47L 30W 840 UNV SWZDT G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| See footnotes o | on the last page. | | | | | | | |

Air Return data

The air return versions of EvoKit are suitable for retrofitting listed air return troffers.

2x2 air return data

| Return Air Volume, SCFM. | 61 | 69 | 80 | 97 | 112 | 131 |
|------------------------------------------|------|------|------|------|------|------|
| Negative Static Pressure, in. H_20 | 0.11 | 0.15 | 0.20 | 0.30 | 0.40 | 0.55 |
| Noise Criteria (NC)* | 17 | 21 | 25 | 31 | 34 | 38 |
| Note: 24 total air slots, each 30mm x 6r | nm | | | | | |

Note: 24 total air slots, each 30mm x 6m

2x4 air return data

| Return Air Volume, SCFM. | 105 | 119 | 128 | 162 | 259 | 272 |
|------------------------------------------|------|------|------|------|------|------|
| Negative Static Pressure, in. H_2^0 | 0.05 | 0.08 | 0.10 | 0.20 | 0.45 | 0.55 |
| Noise Criteria (NC)* | <15 | 32 | 32 | 36 | 38 | 40 |
| Noto: 50 total air slots, oach 30mm v Gr | nm | | | | | |

Note: 50 total air slots, each 30mm x 6mm.

Dimensions 2x4

| A | B | C |
|------------|------------|------------|
| Face Plate | Face Plate | Face Plate |
| Length | Width | Height |
| 47.83" | 23.9" | 2.95″ |



Dimensions 2x2

| A Face Plate Length | B Face Plate Width | C Face Plate Height | |
|---------------------------|--------------------------|---------------------------|--|
| | 22.0# | 2.05" | |



EvoKit Gen 5 Spec 04/21 page 3 of 6





Application

- A highly efficient, visually comfortable, architecturally styled LED retrofit kit designed to replace recessed linear fluorescent troffers.
- Unique modular design offers refreshing new look in the ceiling when compared to traditional fluorescent luminaires.
- Single light bar combined with slanted troffer helps reflect light to reduce glare and provide uniform light distribution making it ideal for applications such as offices, schools, healthcare and retail.
- Excellent color rendering with a CRI above 80.
- Extremely high efficacies up to 164 lumens per watt.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source.
- Designed for use with standard grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-Grids.
- High efficiency source and luminaire design help significantly reduce energy consumption and more easily comply with known energy codes.
- Helps meet regulation requirements such as ASHRAE 90.1 and Title 24 when matched with suitable controls.

Construction/Finish

- Simple design allows for quick installation in existing luminaire without the need to break the ceiling plenum.
- Constructed using galvanized steel which helps fight rust and makes for more durable product.
- Integrated securement tabs for securement to existing troffer housing.
- Minimum depth of only 3" necessary to allow proper clearance and installation of the EvoKit.
- Retrofit kit is powder coated after fabrication with high quality, durable finish to ensure no unfinished edges and avoid future potential of corrosion.
- Components fit together easily without the need for tools during installation.

Electrical

- Multiple driver options available
 Philips Advance Xitanium SR driver enables SpaceWise DT control system.
- Philips Advance drivers with 0-10V dimming allow for maximum fixture
- efficiency and provide 10% dimming.

 - 7-year limited warranty in the HE (High Efficiency) units or 5-year limited warranty the other units includes all components of the retrofit kit, including driver, LED board and nonelectrical components.* Visit signify.com/warranties for complete Warranty information.

- Listed with UL and Design Lights
 Consortium** to ensure quality performance
 and safety standards are met.
- High efficiency LEDs have a minimum 70,000 hour rated life (L₇₀).

Enclosure

• Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

Accessories

- Suitable for use with Philips 503441 emergency backup.
- Earthquake cables available for additional securement to the existing troffer for areas where required.

| Prod. No. | Description |
|-----------|------------------------------------------------------------------------------------------------------------------------|
| 502435 | Earthquake cable 317mm |
| 517987 | EvoKit 2x4 replacement lens ribbed |
| 517748 | EvoKit 2x4 replacement lens smooth |
| 517979 | EvoKit 2x2 replacement lens ribbed |
| 517755 | EvoKit 2x2 replacement lens smooth |
| 503441 | EvoKit field installed emergency battery backup (requires the use of bracket) |
| 517730 | EvoKit emergency battery backup bracket (comes in pack of 4). Two emergency brackets needed per battery pack. |

 Please visit www.philips.com/warranties for full details.
 Evokit luminaires are Design Lights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL).

EvoKit with new SimpleSet technology for wireless lumen level programming

EvoKit with new SimpleSet technology allows the maximum lumen level to be set prior to installation using a smartphone-based app without requiring power to the luminaire. Available in HE versions only. The app can be downloaded at Google Play. Please contact your Philips representative for the current list of approved Android smartphones. Distributors can set lumen levels prior to shipping, and contractors can set lumen levels prior to installation. Lumen level is quickly and easily set in two steps:



Step 1: Place the smartphone next to the NFC antenna on the driver

Step 2: Follow the on-screen instructions

EvoKit Gen 5 Spec 04/21 page 4 of 6



EvoKit gen 5 LED, 2'x 2', 21L, 14W, 80 CRI, 3500K CCT, UNV 0-10, 2100 delivered lumens



EvoKit gen 5 LED, 2'x 4', 37L, 26W, 80 CRI, 3500K CCT, UNV 0-10, 3600 delivered lumens

Candlanawar



Test No. 104271456CHI-003 **S/MH** 1.2 **Lumens/Watt** 142 **Input Watts**

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on tests performed in compliance with LM-79.

| Candlepower | | | | | | | |
|-------------|--------------------|------|------|------|------|--|--|
| | 0 | 22.5 | 45 | 67.5 | 90 | | |
| 0 | 0 1300 1300 | | 1300 | 1300 | 1300 | | |
| 5 | 1281 | 1283 | 1293 | 1306 | 1317 | | |
| 10 | 1267 | 1268 | 1280 | 1293 | 1302 | | |
| 15 | 1241 | 1237 | 1248 | 1262 | 1271 | | |
| 20 | 1198 | 1190 | 1202 | 1216 | 1225 | | |
| 25 | 1142 | 1131 | 1143 | 1157 | 1165 | | |
| 30 | 1073 | 1060 | 1074 | 1088 | 1096 | | |
| 35 | 992 | 980 | 995 | 1010 | 1017 | | |
| 40 | 902 | 890 | 908 | 925 | 934 | | |
| 45 | 804 | 794 | 816 | 838 | 848 | | |
| 50 | 705 | 697 | 724 | 754 | 767 | | |
| 55 | 602 | 600 | 635 | 674 | 689 | | |
| 60 | 502 | 504 | 551 | 596 | 614 | | |
| 65 | 403 | 414 | 471 | 520 | 537 | | |
| 70 | 305 | 330 | 392 | 439 | 454 | | |
| 75 | 212 | 248 | 308 | 346 | 359 | | |
| 80 | 127 | 170 | 215 | 237 | 241 | | |
| 85 | 52 | 87 | 110 | 119 | 120 | | |
| 90 | 0 | 0 | 0 | 0 | 0 | | |

| Zone | Lumer | ns %F | ixture | |
|-----------------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------|--|
| 0-20 | 47 | 5 | 13% | |
| 0-30 | 100 | 2 2 | 27% | |
| 0-40 | 162 | 3 4 | 14% | |
| 0-60 | 2820 | 0 7 | 76% | |
| 0-80 | 358 | 8 9 | 97% | |
| 0-90 | 369 | 5 10 | 100% | |
| | | | .0.10 | |
| Averag Angle | e Lumi | nance 45° | 90° | |
| Averag Angle 45 | e Lumi 0° 1528 | nance 45° 1551 | 90° 1612 | |
| Averag Angle 45 55 | e Lumi 0° 1528 1412 | nance 45° 1551 1487 | 90° 1612 1615 | |
| Averag Angle 45 55 65 | 0° 1528 1412 1280 | nance 45° 1551 1487 1499 | 90° 1612 1615 1709 | |
| Averag Angle 45 55 65 75 | e Lumi 0° 1528 1412 1280 1103 | nance 45° 1551 1487 1499 1602 | 90° 1612 1615 1709 1865 | |

Zonal lumens &

| Coefficients of utilization | | | | | | | | | |
|-----------------------------|------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Ceil | Ceiling | | 80% | | 70% | | 50% | | |
| Wal | Wall | | 50 | 30 | 70 | 50 | 30 | 50 | 30 |
| RCF | RCR | | nal ca | vity refl | nethod - Effective floor ectance = 20% | | | | oor |
| Room Cavity Ratio | 0 1 2 3 4 5 6 7 8 9 10 | 119 108 90 82 75 70 65 60 56 53 | 119 104 90 79 70 62 56 51 46 43 39 | 119 99 83 71 61 53 47 42 38 34 31 | 116 106 96 87 80 73 68 63 58 55 51 | 116 101 88 77 69 61 55 50 46 42 39 | 116 97 82 70 60 53 47 42 37 34 31 | 111 97 85 74 66 59 53 48 44 41 38 | 111 94 79 68 59 52 46 41 37 34 31 |

EvoKit Gen 5 Spec 04/21 page 5 of 6



Energy saving solution - EvoKit 2'x4'

| Estimated lighting costs using a standard 3 lamp T8 troffer | | | | | |
|-------------------------------------------------------------|------|--|--|--|--|
| Present wattage | 85 W | | | | |

| × Annual operating hours | | 4,380 | hrs |
|--------------------------|---|------------|--------------------------------|
| | = | 372,300 | Watt-Hours |
| ÷ 1,000 = | | 372.3 | kWh per year (rates will vary) |
| × kWh rate of \$0.10 = | | \$37.23 | per year |
| × 125 fixtures | | \$4,653.75 | annual energy cost per space |

Estimated lighting costs using a Philips 42L 2x4 Evokit G4

| Tatal activestad service lassings | 63 330 3F | |
|-----------------------------------|------------|--------------------------------|
| × 125 fixtures | \$1,423.50 | annual energy cost per space |
| × kWh rate of \$0.10 = | \$11.39 | per year |
| ÷ 1,000 = | 113.88 | kWh per year (rates will vary) |
| = | 113,880 | Watt-Hours |
| × Annual operating hours | 4,380 | hrs |
| Present wattage | 26 | W |

Fotal estimated annual savings^o \$3,230.25

A Based on 125 fixtures per space operating 4.380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space

Footnotes:

- 1. L70 72,000 hours @ 35°C based on TM21 and LM80.
- 2. Based on photometric testing consistent with IES LM-79. Actual wattage may differ by +/- 10%. Actual initial lumen output may vary between -10 and +10% of the rated lumens
- 3. 0-10V Dimming products that are not HE (High Efficiency) do not support lumen level tuning with SimpleSet technology using the MultiOne Mobile smartphone app.
- Made to stock product (Contact your Philips sales representative for stock availability and lead time). Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.





© 2020 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.



Signify North America Corporation 200 Franklin Square Drive, Somercet NL 08873 Somerset, NJ 08873 Telephone 855-486-2216

Signify Canada Ltd. Markham, ON, Canada L6C 2S3

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.

EvoKit LED retrofit kit gen 5 04/21 philips.com/lighting page 6 of 6

281 Hillmount Road, Telephone 800-668-9008

PHILIPS

Recessed

EvoKit LED Retrofit Kit Gen 5

Philips EvoKit LED Retrofit kit gen 5 is an energy efficient LED alternative to traditional linear fluorescent troffers that also helps reduce maintenance costs due to its long lifetime. Simple construction helps decrease installation times offering an installed LED solution within minutes.

Products can be found on the DLC QPL by searching the 6 digit product number. Additional information can be found at www.philips.com/evokit.

EvoKit with 0-10V Dimming ordering guide

| | Product No. (6NC) | Model No. (12NC) | Description | Watts (W) ¹ | Volts (V) | Lumen Maintenance (hours)² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) | |
|---|----------------------|---------------------|---------------------------------------|---------------------------|--------------|----------------------------------|----------------------------------------|-----------------------|--------------------|--|
| | 0-10V Dimm | ning | 1 | | | | | | | |
| ٠ | 527978 | 929002714213 | EvoKit 2x2 21L 15W 835 UNV 0-10 G5 | 15W | 120-277 | 70,000 | 2100 | 3500 | 140 | |
| ٠ | 527986 | 929002714313 | EvoKit 2x2 21L 14W 840 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 4000 | 150 | |
| | 527994 | 929002714413 | EvoKit 2x2 21L 14W 850 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 5000 | 150 | |
| ٠ | 528000 | 929002714513 | EvoKit 2x2 31L 22W 835 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 135 | |
| ٠ | 528018 | 929002714613 | EvoKit 2x2 31L 22W 840 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 4000 | 141 | |
| | 528026 | 929002714713 | EvoKit 2x2 31L 22W 850 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 5000 | 141 | |
| | 528455 | 929002719013 | EvoKit 2x2 31L 23W 935 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 | |
| | 528034 | 929002714813 | EvoKit 2x4 36L 25W 835 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 3500 | 144 | |
| ٠ | 528042 | 929002714913 | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 4000 | 144 | |
| | 528059 | 929002715013 | EvoKit 2x4 36L 25W 850 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 5000 | 144 | |
| ٠ | 528067 | 929002715113 | EvoKit 2x4 42L 28W 835 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 145 | |
| ٠ | 528075 | 929002715213 | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 | |
| | 528083 | 929002715313 | EvoKit 2x4 42L 28W 850 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 5000 | 150 | |
| | 528463 | 929002719113 | EvoKit 2x4 42L 32W 935 UNV 0-10 G5 | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 | |
| | High Efficier | ncy 0-10 V Dimmin | g | | 1 | 1 | | | | |
| ٠ | 528091 | 929002715413 | EvoKit HE 2x2 21L 14W 835 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 3500 | 153 | |
| ٠ | 528109 | 929002715513 | EvoKit HE 2x2 21L 13W 840 UNV 0-10 G5 | 13W | 120-277 | 70,000 | 2100 | 4000 | 162 | |
| ٠ | 528125 | 929002715713 | EvoKit HE 2x2 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 | |
| ٠ | 528133 | 929002715813 | EvoKit HE 2x2 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 | |
| | 528141 | 929002715913 | EvoKit HE 2x2 31L 20W 850 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 | |
| | 528158 | 929002716013 | EvoKit HE 2x4 30L 19W 835 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 3500 | 158 | |
| | 528166 | 929002716113 | EvoKit HE 2x4 30L 19W 840 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 4000 | 158 | |
| ٠ | 528174 | 929002716213 | EvoKit HE 2x4 36L 23W 835 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3600 | 3500 | 157 | |
| ٠ | 528182 | 929002716313 | EvoKit HE 2x4 36L 22W 840 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3600 | 4000 | 164 | |
| ٠ | 528208 | 929002716513 | EvoKit HE 2x4 42L 26W 835 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 158 | |
| ٠ | 528216 | 929002716613 | EvoKit HE 2x4 42L 26W 840 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 | |
| | 528224 | 929002716713 | EvoKit HE 2x4 42L 26W 850 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 | |
| | 528232 | 929002716813 | EvoKit HE 2x4 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 | |
| | 528240 | 929002716913 | EvoKit HE 2x4 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 | |
| | 0-10V Step | Dimming | | | | | | | | |
| | 528299 | 929002717413 | EvoKit HE 2x2 31L 22W 835 UNV STEP G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 142 | |
| | 528307 | 929002717513 | EvoKit HE 2x2 31L 21W 840 UNV STEP G5 | 21W | 120-277 | 70,000 | 3100 | 4000 | 148 | |
| | 528315 | 929002717613 | EvoKit HE 2x4 42L 28W 835 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 150 | |
| | 528323 | 929002717713 | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 | |
| | See footnotes (| n the last nage | 1 | 1 | 1 | 1 | | I | | |

EvoKit Gen 5 Spec 04/21 page 1 of 6



Project:

Cat.No:

Type:

Lamps:

Notes:

Qty:


EvoKit with Spacewise SWZDT ordering guide

| Product No. | Model No. | Description | Watts | Volts | Lumen Maintenance (hours) ² | Approx. Lumens (Im) ³ | Color Temp. (K) | Efficacy |
|------------------|-------------------|----------------------------------------|-------|---------|----------------------------------------------|----------------------------------------|-----------------------|----------|
| Spacewise S | SWZDT | | () | (-) | (110413) | () | () | (,) |
| 528471 | 929002719213 | EvoKit 2x2 31L 23W 935 UNV SWZDT G5 | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| 528489 | 929002719313 | EvoKit 2x4 42L 32W 935 UNV SWZDT G5 | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 |
| High Efficier | ncy Spacewise SW | ZDT | | | | | | |
| 528331 | 929002717813 | EvoKit HE 2x2 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 |
| 528349 | 929002717913 | EvoKit HE 2x2 31L 20W 840 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528356 | 929002718013 | EvoKit HE 2x2 31L 20W 850 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 |
| 528380 | 929002718313 | EvoKit HE 2x4 42L 26W 835 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 159 |
| 528398 | 929002718413 | EvoKit HE 2x4 42L 26W 840 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 |
| 528406 | 929002718513 | EvoKit HE 2x4 42L 26W 850 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 |
| 528414 | 929002718613 | EvoKit HE 2x4 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528422 | 929002718713 | EvoKit HE 2x4 47L 30W 840 UNV SWZDT G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| See footnotes of | on the last page. | | | | | | | |

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Granular dimming (occupancy sharing)
- Dwell time
- Scene setting
- Configuration of sensor parametersif desired – using NFC or IR via intuitive Android-based Philips field apps
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and
- auto-off/partial-on application
- DLC qualified: Listed on the QPL for Networked Lighting Controls

Benefits

- Installation savings integral wireless controls factory installed. No need to order separate components.
- Minimal startup and configuration
- expertise savings on labor time & effort • Deep energy savings & code compliance
- strategies
 Faster ROI with attractive payback periods
- (varies depending on luminiare choices)

Applications

Conference rooms, individual offices, open offices, classrooms, storage and break areas, restrooms, lobbies.

SpaceWise wireless switch

To complete the SpaceWise System a wireless switch may be added.

Ordering code: UID8451/10



New configuration tool

An Android phone is needed for commissioning the system. Please refer to www.usa.lighting.philips.com/systems/lighting systems/spacewise for full list of compatible phones.



EvoKit Gen 5 Spec 04/21 page 2 of 6

Refer to the website for registration details:

www.usa.lighting.philips.com/support/support/tools/

Sensor parameters can be configured via Philips field apps. Two versions are available:

- 1. **NFC** This app allows configuring sensor parameters only when you can physically access the sensor with a smartphone.
- IR This app allows configuring sensor parameters plus enables grouping to a wireless switch, which can be done with the IR feature of applicable phones from floor level.

You must first register for the app to receive a username and password, then download Philips field apps from the Google Play Store.



EvoKit with air return ordering guide

| Product No. (6NC) | Model No. (12NC) | Description | Watts (W) ¹ | Volts (V) | Lumen Maintenance (hours) ² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) |
|---------------------------------------------|--------------------------------|------------------------------------------|---------------------------|--------------|----------------------------------------------|----------------------------------------|-----------------------|--------------------|
| High Efficiency 0-10 V Dimming - Air Return | | | | | | | | |
| 528257 | 929002717013 | Evokit HE 2x2 A 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 |
| 528265 | 929002717113 | Evokit HE 2x2 A 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528273 | 929002717213 | Evokit HE 2x4 A 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528281 | 929002717313 | Evokit HE 2x4 A 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| High Efficiency Spacewise - Air Return | | | | | | | | |
| 528364 | 929002718113 | Evokit HE 2x2 A 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 |
| 528372 | 929002718213 | Evokit HE 2x2 A 31L 20W 840 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528430 | 929002718813 | Evokit HE 2x4 A 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528448 | 929002718913 | Evokit HE 2x4 A 47L 30W 840 UNV SWZDT G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| See footnotes o | ee footnotes on the last page. | | | | | | | |

Air Return data

The air return versions of EvoKit are suitable for retrofitting listed air return troffers.

2x2 air return data

| Return Air Volume, SCFM. | 61 | 69 | 80 | 97 | 112 | 131 |
|-------------------------------------------|------|------|------|------|------|------|
| Negative Static Pressure, in. H_20 | 0.11 | 0.15 | 0.20 | 0.30 | 0.40 | 0.55 |
| Noise Criteria (NC)* | 17 | 21 | 25 | 31 | 34 | 38 |
| Note: 24 total air slots, each 30mm y 6mm | | | | | | |

Note: 24 total air slots, each 30mm x 6m

2x4 air return data

| Return Air Volume, SCFM. | 105 | 119 | 128 | 162 | 259 | 272 |
|-------------------------------------------|------|------|------|------|------|------|
| Negative Static Pressure, in. H_2^0 | 0.05 | 0.08 | 0.10 | 0.20 | 0.45 | 0.55 |
| Noise Criteria (NC)* | <15 | 32 | 32 | 36 | 38 | 40 |
| Note: 50 total air slots, each 30mm x 6mm | | | | | | |

50 total air slots, each 30mm x

Dimensions 2x4

| A | B | C |
|------------|------------|------------|
| Face Plate | Face Plate | Face Plate |
| Length | Width | Height |
| 47.83" | 23.9" | 2.95″ |



Dimensions 2x2

| A | B | C |
|------------|------------|------------|
| Face Plate | Face Plate | Face Plate |
| Length | Width | Height |
| 23.9" | 23.9" | |



EvoKit Gen 5 Spec 04/21 page 3 of 6





Application

- A highly efficient, visually comfortable, architecturally styled LED retrofit kit designed to replace recessed linear fluorescent troffers.
- Unique modular design offers refreshing new look in the ceiling when compared to traditional fluorescent luminaires.
- Single light bar combined with slanted troffer helps reflect light to reduce glare and provide uniform light distribution making it ideal for applications such as offices, schools, healthcare and retail.
- Excellent color rendering with a CRI above 80.
- Extremely high efficacies up to 164 lumens per watt.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source.
- Designed for use with standard grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-Grids.
- High efficiency source and luminaire design help significantly reduce energy consumption and more easily comply with known energy codes.
- Helps meet regulation requirements such as ASHRAE 90.1 and Title 24 when matched with suitable controls.

Construction/Finish

- Simple design allows for quick installation in existing luminaire without the need to break the ceiling plenum.
- Constructed using galvanized steel which helps fight rust and makes for more durable product.
- Integrated securement tabs for securement to existing troffer housing.
- Minimum depth of only 3" necessary to allow proper clearance and installation of the EvoKit.
- Retrofit kit is powder coated after fabrication with high quality, durable finish to ensure no unfinished edges and avoid future potential of corrosion.
- Components fit together easily without the need for tools during installation.

Electrical

- Multiple driver options available
 Philips Advance Xitanium SR driver enables SpaceWise DT control system.
- Philips Advance drivers with 0-10V
- dimming allow for maximum fixture efficiency and provide 10% dimming.
- 7-year limited warranty in the HE (High Efficiency) units or 5-year limited warranty the other units includes all components of the retrofit kit, including driver, LED board and nonelectrical components.* Visit signify.com/warranties for complete Warranty information.
- Listed with UL and Design Lights
 Consortium** to ensure quality performance
 and safety standards are met.
- High efficiency LEDs have a minimum 70,000 hour rated life (L₇₀).

Enclosure

• Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

Accessories

- Suitable for use with Philips 503441 emergency backup.
- Earthquake cables available for additional securement to the existing troffer for areas where required.

| Prod. No. | Description |
|-----------|------------------------------------------------------------------------------------------------------------------------|
| 502435 | Earthquake cable 317mm |
| 517987 | EvoKit 2x4 replacement lens ribbed |
| 517748 | EvoKit 2x4 replacement lens smooth |
| 517979 | EvoKit 2x2 replacement lens ribbed |
| 517755 | EvoKit 2x2 replacement lens smooth |
| 503441 | EvoKit field installed emergency battery backup (requires the use of bracket) |
| 517730 | EvoKit emergency battery backup bracket (comes in pack of 4). Two emergency brackets needed per battery pack. |

 Please visit www.philips.com/warranties for full details.
 Evokit luminaires are Design Lights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL).

EvoKit with new SimpleSet technology for wireless lumen level programming

EvoKit with new SimpleSet technology allows the maximum lumen level to be set prior to installation using a smartphone-based app without requiring power to the luminaire. Available in HE versions only. The app can be downloaded at Google Play. Please contact your Philips representative for the current list of approved Android smartphones. Distributors can set lumen levels prior to shipping, and contractors can set lumen levels prior to installation. Lumen level is quickly and easily set in two steps:



Step 1: Place the smartphone next to the NFC antenna on the driver

Step 2: Follow the on-screen instructions

EvoKit Gen 5 Spec 04/21 page 4 of 6



EvoKit gen 5 LED, 2'x 2', 21L, 14W, 80 CRI, 3500K CCT, UNV 0-10, 2100 delivered lumens



EvoKit gen 5 LED, 2'x 4', 37L, 26W, 80 CRI, 3500K CCT, UNV 0-10, 3600 delivered lumens

Candlanawar



Test No. 104271456CHI-003 **S/MH** 1.2 **Lumens/Watt** 142 **Input Watts**

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on tests performed in compliance with LM-79.

| 0 | 22.5 | 45 | 67.5 | 90 |
|------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1300 | 1300 | 1300 | 1300 | 1300 |
| 1281 | 1283 | 1293 | 1306 | 1317 |
| 1267 | 1268 | 1280 | 1293 | 1302 |
| 1241 | 1237 | 1248 | 1262 | 1271 |
| 1198 | 1190 | 1202 | 1216 | 1225 |
| 1142 | 1131 | 1143 | 1157 | 1165 |
| 1073 | 1060 | 1074 | 1088 | 1096 |
| 992 | 980 | 995 | 1010 | 1017 |
| 902 | 890 | 908 | 925 | 934 |
| 804 | 794 | 816 | 838 | 848 |
| 705 | 697 | 724 | 754 | 767 |
| 602 | 600 | 635 | 674 | 689 |
| 502 | 504 | 551 | 596 | 614 |
| 403 | 414 | 471 | 520 | 537 |
| 305 | 330 | 392 | 439 | 454 |
| 212 | 248 | 308 | 346 | 359 |
| 127 | 170 | 215 | 237 | 241 |
| 52 | 87 | 110 | 119 | 120 |
| 0 | 0 | 0 | 0 | 0 |
| | 0 13000 1281 1267 1241 1198 1142 1073 992 902 804 705 602 502 403 305 212 127 52 0 | o 22.5 1300 1208 1281 1283 1267 1268 1241 1237 1198 1190 1142 1131 1073 1060 992 980 804 794 705 602 602 600 502 504 403 414 305 330 212 248 127 170 52 87 0 0 | No 22.5 45 1300 1300 1300 1281 1283 1293 1267 1268 1280 11267 1268 1280 1127 1248 1190 1142 1131 1143 1073 1060 074 992 980 995 902 890 995 902 804 794 804 794 816 705 697 724 602 600 635 502 504 551 305 330 392 212 248 308 127 170 215 52 87 110 0 0 0 | No. No. |

| percentages | | | | | |
|-------------|---------|-------|----------|--|--|
| Zone | Lumer | ns %F | %Fixture | | |
| 0-20 | 47 | 5 | 13% | | |
| 0-30 | 100 | 2 | 27% | | |
| 0-40 | 162 | з. | 44% | | |
| 0-60 | 2820 | С | 76% | | |
| 0-80 | 358 | 8 | 97% | | |
| 0-90 | 369 | 5 10 | 100% | | |
| Averag | ge Lumi | nance | | | |
| Angle | 0° | 45° | 90° | | |
| 45 | 1528 | 1551 | 1612 | | |
| 55 | 1412 | 1487 | 1615 | | |
| 65 | 1280 | 1499 | 1709 | | |
| 75 | 1103 | 1602 | 1865 | | |
| 85 | 802 | 1701 | 1845 | | |

Zonal lumens &

EvoKit Gen 5 Spec 04/21 page 5 of 6



Energy saving solution - EvoKit 2'x4'

| Estimated lighting costs using a | standard 3 lamp T8 troffer |
|----------------------------------|----------------------------|
| Drocont wattage | 95 W/ |

| × Annual operating hours | | 4,380 | hrs |
|--------------------------|---|------------|--------------------------------|
| | = | 372,300 | Watt-Hours |
| ÷ 1,000 = | | 372.3 | kWh per year (rates will vary) |
| × kWh rate of \$0.10 = | | \$37.23 | per year |
| × 125 fixtures | | \$4,653.75 | annual energy cost per space |

Estimated lighting costs using a Philips 42L 2x4 Evokit G4

| Tatal activestad service lassings | 63 330 3F | |
|-----------------------------------|------------|--------------------------------|
| × 125 fixtures | \$1,423.50 | annual energy cost per space |
| × kWh rate of \$0.10 = | \$11.39 | per year |
| ÷ 1,000 = | 113.88 | kWh per year (rates will vary) |
| = | 113,880 | Watt-Hours |
| × Annual operating hours | 4,380 | hrs |
| Present wattage | 26 | W |

Fotal estimated annual savings^o \$3,230.25

A Based on 125 fixtures per space operating 4.380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space

Footnotes:

- 1. L70 72,000 hours @ 35°C based on TM21 and LM80.
- 2. Based on photometric testing consistent with IES LM-79. Actual wattage may differ by +/- 10%. Actual initial lumen output may vary between -10 and +10% of the rated lumens
- 3. 0-10V Dimming products that are not HE (High Efficiency) do not support lumen level tuning with SimpleSet technology using the MultiOne Mobile smartphone app.
- Made to stock product (Contact your Philips sales representative for stock availability and lead time). Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.





© 2020 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.



Signify North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Telephone 855-486-2216

Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3 Telephone 800-668-9008

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.

EvoKit LED retrofit kit gen 5 04/21 philips.com/lighting page 6 of 6

PHILIPS

Recessed

EvoKit LED Retrofit Kit Gen 5

Philips EvoKit LED Retrofit kit gen 5 is an energy efficient LED alternative to traditional linear fluorescent troffers that also helps reduce maintenance costs due to its long lifetime. Simple construction helps decrease installation times offering an installed LED solution within minutes.

Products can be found on the DLC QPL by searching the 6 digit product number. Additional information can be found at www.philips.com/evokit.

EvoKit with 0-10V Dimming ordering guide

| | Product No. (6NC) | Model No. (12NC) | Description | Watts (W)1 | Volts (V) | Lumen Maintenance (hours)² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) |
|---|--------------------------------------------------------|---------------------|---------------------------------------|---------------|--------------|----------------------------------|----------------------------------------|-----------------------|--------------------|
| | 0-10V Dimm | ning | 1 | | | | | | |
| ٠ | 527978 | 929002714213 | EvoKit 2x2 21L 15W 835 UNV 0-10 G5 | 15W | 120-277 | 70,000 | 2100 | 3500 | 140 |
| ٠ | 527986 | 929002714313 | EvoKit 2x2 21L 14W 840 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 4000 | 150 |
| | 527994 | 929002714413 | EvoKit 2x2 21L 14W 850 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 5000 | 150 |
| ٠ | 528000 | 929002714513 | EvoKit 2x2 31L 22W 835 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| ٠ | 528018 | 929002714613 | EvoKit 2x2 31L 22W 840 UNV 0-10 G5 2 | | 120-277 | 70,000 | 3100 | 4000 | 141 |
| | 528026 | 929002714713 | EvoKit 2x2 31L 22W 850 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 5000 | 141 |
| | 528455 | 929002719013 | EvoKit 2x2 31L 23W 935 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| | 528034 | 929002714813 | EvoKit 2x4 36L 25W 835 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 3500 | 144 |
| ٠ | 528042 | 929002714913 | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 4000 | 144 |
| | 528059 929002715013 EvoKit 2x4 36L 25W 850 UNV 0-10 G5 | | 25W | 120-277 | 70,000 | 3600 | 5000 | 144 | |
| ٠ | 528067 | 929002715113 | EvoKit 2x4 42L 28W 835 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 145 |
| ٠ | 528075 | 929002715213 | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 |
| | 528083 929002715313 EvoKit 2x4 42L 28W 850 UNV 0-10 G5 | | 28W | 120-277 | 70,000 | 4200 | 5000 | 150 | |
| | 528463 929002719113 EvoKit 2x4 42L 32W 935 UNV 0-10 G5 | | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 | |
| | High Efficiency 0-10 V Dimming | | | | | | | | |
| ٠ | 528091 | 929002715413 | EvoKit HE 2x2 21L 14W 835 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 3500 | 153 |
| ٠ | 528109 | 929002715513 | EvoKit HE 2x2 21L 13W 840 UNV 0-10 G5 | 13W | 120-277 | 70,000 | 2100 | 4000 | 162 |
| ٠ | 528125 | 929002715713 | EvoKit HE 2x2 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 |
| ٠ | 528133 | 929002715813 | EvoKit HE 2x2 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| | 528141 | 929002715913 | EvoKit HE 2x2 31L 20W 850 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 |
| | 528158 | 929002716013 | EvoKit HE 2x4 30L 19W 835 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 3500 | 158 |
| | 528166 | 929002716113 | EvoKit HE 2x4 30L 19W 840 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 4000 | 158 |
| ٠ | 528174 | 929002716213 | EvoKit HE 2x4 36L 23W 835 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3600 | 3500 | 157 |
| ٠ | 528182 | 929002716313 | EvoKit HE 2x4 36L 22W 840 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3600 | 4000 | 164 |
| ٠ | 528208 | 929002716513 | EvoKit HE 2x4 42L 26W 835 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 158 |
| ٠ | 528216 | 929002716613 | EvoKit HE 2x4 42L 26W 840 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 |
| | 528224 | 929002716713 | EvoKit HE 2x4 42L 26W 850 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 |
| | 528232 | 929002716813 | EvoKit HE 2x4 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| | 528240 | 929002716913 | EvoKit HE 2x4 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| | 0-10V Step | Dimming | | | | | | | |
| | 528299 | 929002717413 | EvoKit HE 2x2 31L 22W 835 UNV STEP G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 142 |
| | 528307 | 929002717513 | EvoKit HE 2x2 31L 21W 840 UNV STEP G5 | 21W | 120-277 | 70,000 | 3100 | 4000 | 148 |
| | 528315 | 929002717613 | EvoKit HE 2x4 42L 28W 835 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 150 |
| | 528323 | 929002717713 | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 |
| | See footnotes on the last page. | | | | | | L | | |

EvoKit Gen 5 Spec 04/21 page 1 of 6



Project:

Cat.No:

Type:

Lamps:

Notes:

Qty:



EvoKit with Spacewise SWZDT ordering guide

| Product No. | Model No. | Description | Watts | Volts | Lumen Maintenance (bours) ² | Approx. Lumens | Color Temp. | Efficacy |
|---------------------------------------------------------|------------------------------------------------------------|----------------------------------------|---------|---------|----------------------------------------------|-------------------|----------------|----------|
| Spacewise S | SWZDT | | () | (-) | (110413) | () | () | (,) |
| 528471 | 28471 929002719213 EvoKit 2x2 31L 23W 935 UNV SWZDT G5 | | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| 528489 929002719313 EvoKit 2x4 42L 32W 935 UNV SWZDT G5 | | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 | |
| High Efficiency Spacewise SWZDT | | | | | | | | |
| 528331 | 929002717813 | EvoKit HE 2x2 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 |
| 528349 | 929002717913 EvoKit HE 2x2 31L 20W 840 UNV SWZDT G5 | | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528356 | 929002718013 | EvoKit HE 2x2 31L 20W 850 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 |
| 528380 | 929002718313 | EvoKit HE 2x4 42L 26W 835 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 159 |
| 528398 | 929002718413 | EvoKit HE 2x4 42L 26W 840 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 |
| 528406 | 929002718513 | EvoKit HE 2x4 42L 26W 850 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 |
| 528414 | 929002718613 | EvoKit HE 2x4 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528422 | 528422 929002718713 EvoKit HE 2x4 47L 30W 840 UNV SWZDT G5 | | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| See footnotes on the last page. | | | | | | | | |

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Granular dimming (occupancy sharing)
- Dwell time
- Scene setting
- Configuration of sensor parametersif desired – using NFC or IR via intuitive Android-based Philips field apps
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and
- auto-off/partial-on application
- DLC qualified: Listed on the QPL for Networked Lighting Controls

Benefits

- Installation savings integral wireless controls factory installed. No need to order separate components.
- Minimal startup and configuration
- expertise savings on labor time & effort • Deep energy savings & code compliance
- strategies
 Faster ROI with attractive payback periods
- (varies depending on luminiare choices)

Applications

Conference rooms, individual offices, open offices, classrooms, storage and break areas, restrooms, lobbies.

SpaceWise wireless switch

To complete the SpaceWise System a wireless switch may be added.

Ordering code: UID8451/10



New configuration tool

An Android phone is needed for commissioning the system. Please refer to www.usa.lighting.philips.com/systems/lighting systems/spacewise for full list of compatible phones.



EvoKit Gen 5 Spec 04/21 page 2 of 6

Refer to the website for registration details:

www.usa.lighting.philips.com/support/support/tools/

Sensor parameters can be configured via Philips field apps. Two versions are available:

- 1. **NFC** This app allows configuring sensor parameters only when you can physically access the sensor with a smartphone.
- IR This app allows configuring sensor parameters plus enables grouping to a wireless switch, which can be done with the IR feature of applicable phones from floor level.

You must first register for the app to receive a username and password, then download Philips field apps from the Google Play Store.



EvoKit with air return ordering guide

| Product No. (6NC) | Model No. (12NC) | Description | Watts (W)1 | Volts (V) | Lumen Maintenance (hours) ² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) | |
|---------------------------------------------|---------------------|------------------------------------------|---------------|--------------|----------------------------------------------|----------------------------------------|-----------------------|--------------------|--|
| High Efficiency 0-10 V Dimming - Air Return | | | | | | | | | |
| 528257 | 929002717013 | Evokit HE 2x2 A 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 | |
| 528265 | 929002717113 | Evokit HE 2x2 A 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 | |
| 528273 | 929002717213 | Evokit HE 2x4 A 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 | |
| 528281 | 929002717313 | Evokit HE 2x4 A 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 | |
| High Efficier | ncy Spacewise - Ai | r Return | | | | | | | |
| 528364 | 929002718113 | Evokit HE 2x2 A 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 | |
| 528372 | 929002718213 | Evokit HE 2x2 A 31L 20W 840 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 | |
| 528430 | 929002718813 | Evokit HE 2x4 A 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 | |
| 528448 | 929002718913 | Evokit HE 2x4 A 47L 30W 840 UNV SWZDT G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 | |
| See footnotes c | on the last page. | | | | | | | | |

Air Return data

The air return versions of EvoKit are suitable for retrofitting listed air return troffers.

2x2 air return data

| Return Air Volume, SCFM. | 61 | 69 | 80 | 97 | 112 | 131 | |
|-------------------------------------------|------|------|------|------|------|------|--|
| Negative Static Pressure, in. H_2^0 | 0.11 | 0.15 | 0.20 | 0.30 | 0.40 | 0.55 | |
| Noise Criteria (NC)* | 17 | 21 | 25 | 31 | 34 | 38 | |
| Note: 24 total air slots, each 30mm x 6mm | | | | | | | |

Note: 24 total air slots, each 30mm x 6m

2x4 air return data

| Return Air Volume, SCFM. | 105 | 119 | 128 | 162 | 259 | 272 | |
|-------------------------------------------|------|------|------|------|------|------|--|
| Negative Static Pressure, in. H_2^0 | 0.05 | 0.08 | 0.10 | 0.20 | 0.45 | 0.55 | |
| Noise Criteria (NC)* | <15 | 32 | 32 | 36 | 38 | 40 | |
| Noto: 50 total air clots, oach 30mm × 6mm | | | | | | | |

Note: 50 total air slots, each 30mm x 6mm.

Dimensions 2x4

| A | B | C |
|------------|------------|------------|
| Face Plate | Face Plate | Face Plate |
| Length | Width | Height |
| | | |



Dimensions 2x2

| A | B | C |
|------------|------------|------------|
| Face Plate | Face Plate | Face Plate |
| Length | Width | Height |
| 23.9" | 23.9" | |



EvoKit Gen 5 Spec 04/21 page 3 of 6





Application

- A highly efficient, visually comfortable, architecturally styled LED retrofit kit designed to replace recessed linear fluorescent troffers.
- Unique modular design offers refreshing new look in the ceiling when compared to traditional fluorescent luminaires.
- Single light bar combined with slanted troffer helps reflect light to reduce glare and provide uniform light distribution making it ideal for applications such as offices, schools, healthcare and retail.
- Excellent color rendering with a CRI above 80.
- Extremely high efficacies up to 164 lumens per watt.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source.
- Designed for use with standard grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-Grids.
- High efficiency source and luminaire design help significantly reduce energy consumption and more easily comply with known energy codes.
- Helps meet regulation requirements such as ASHRAE 90.1 and Title 24 when matched with suitable controls.

Construction/Finish

- Simple design allows for quick installation in existing luminaire without the need to break the ceiling plenum.
- Constructed using galvanized steel which helps fight rust and makes for more durable product.
- Integrated securement tabs for securement to existing troffer housing.
- Minimum depth of only 3" necessary to allow proper clearance and installation of the EvoKit.
- Retrofit kit is powder coated after fabrication with high quality, durable finish to ensure no unfinished edges and avoid future potential of corrosion.
- Components fit together easily without the need for tools during installation.

Electrical

- Multiple driver options available
 Philips Advance Xitanium SR driver enables SpaceWise DT control system.
- Philips Advance drivers with 0-10V
- dimming allow for maximum fixture efficiency and provide 10% dimming.
- 7-year limited warranty in the HE (High Efficiency) units or 5-year limited warranty the other units includes all components of the retrofit kit, including driver, LED board and nonelectrical components.* Visit signify.com/warranties for complete Warranty information.
- Listed with UL and Design Lights
 Consortium** to ensure quality performance
 and safety standards are met.
- High efficiency LEDs have a minimum 70,000 hour rated life (L₇₀).

Enclosure

• Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

Accessories

- Suitable for use with Philips 503441 emergency backup.
- Earthquake cables available for additional securement to the existing troffer for areas where required.

| Prod. No. | Description |
|-----------|------------------------------------------------------------------------------------------------------------------------|
| 502435 | Earthquake cable 317mm |
| 517987 | EvoKit 2x4 replacement lens ribbed |
| 517748 | EvoKit 2x4 replacement lens smooth |
| 517979 | EvoKit 2x2 replacement lens ribbed |
| 517755 | EvoKit 2x2 replacement lens smooth |
| 503441 | EvoKit field installed emergency battery backup (requires the use of bracket) |
| 517730 | EvoKit emergency battery backup bracket (comes in pack of 4). Two emergency brackets needed per battery pack. |

 Please visit www.philips.com/warranties for full details.
 Evokit luminaires are Design Lights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL).

EvoKit with new SimpleSet technology for wireless lumen level programming

EvoKit with new SimpleSet technology allows the maximum lumen level to be set prior to installation using a smartphone-based app without requiring power to the luminaire. Available in HE versions only. The app can be downloaded at Google Play. Please contact your Philips representative for the current list of approved Android smartphones. Distributors can set lumen levels prior to shipping, and contractors can set lumen levels prior to installation. Lumen level is quickly and easily set in two steps:



Step 1: Place the smartphone next to the NFC antenna on the driver

Step 2: Follow the on-screen instructions

EvoKit Gen 5 Spec 04/21 page 4 of 6



EvoKit gen 5 LED, 2'x2', 21L, 14W, 80 CRI, 3500K CCT, UNV 0-10, 2100 delivered lumens



EvoKit gen 5 LED, 2'x 4', 37L, 26W, 80 CRI, 3500K CCT, UNV 0-10, 3600 delivered lumens

Candlanawar



Test No. 104271456CHI-003 **S/MH** 1.2 **Lumens/Watt** 142 **Input Watts**

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on tests performed in compliance with LM-79.

| candlepower | | | | | | |
|-------------|------|------|------|------|------|--|
| | 0 | 22.5 | 45 | 67.5 | 90 | |
| 0 | 1300 | 1300 | 1300 | 1300 | 1300 | |
| 5 | 1281 | 1283 | 1293 | 1306 | 1317 | |
| 10 | 1267 | 1268 | 1280 | 1293 | 1302 | |
| 15 | 1241 | 1237 | 1248 | 1262 | 1271 | |
| 20 | 1198 | 1190 | 1202 | 1216 | 1225 | |
| 25 | 1142 | 1131 | 1143 | 1157 | 1165 | |
| 30 | 1073 | 1060 | 1074 | 1088 | 1096 | |
| 35 | 992 | 980 | 995 | 1010 | 1017 | |
| 40 | 902 | 890 | 908 | 925 | 934 | |
| 45 | 804 | 794 | 816 | 838 | 848 | |
| 50 | 705 | 697 | 724 | 754 | 767 | |
| 55 | 602 | 600 | 635 | 674 | 689 | |
| 60 | 502 | 504 | 551 | 596 | 614 | |
| 65 | 403 | 414 | 471 | 520 | 537 | |
| 70 | 305 | 330 | 392 | 439 | 454 | |
| 75 | 212 | 248 | 308 | 346 | 359 | |
| 80 | 127 | 170 | 215 | 237 | 241 | |
| 85 | 52 | 87 | 110 | 119 | 120 | |
| 90 | 0 | 0 | 0 | 0 | 0 | |

| percen | tuges | | | |
|--------|--------|-------|----------|--|
| Zone | Lumer | ns %F | %Fixture | |
| 0-20 | 47 | 5 | 13% | |
| 0-30 | 100 | 2 | 27% | |
| 0-40 | 162 | з. | 44% | |
| 0-60 | 2820 | С | 76% | |
| 0-80 | 358 | 8 | 97% | |
| 0-90 | 369 | 5 10 | 100% | |
| Averag | e Lumi | nance | | |
| Angle | 0° | 45° | 90° | |
| 45 | 1528 | 1551 | 1612 | |
| 55 | 1412 | 1487 | 1615 | |
| 65 | 1280 | 1499 | 1709 | |
| 75 | 1103 | 1602 | 1865 | |
| 85 | 802 | 1701 | 1845 | |

Zonal lumens &

EvoKit Gen 5 Spec 04/21 page 5 of 6



Energy saving solution - EvoKit 2'x4'

| Estimated lighting costs using a | standard 3 lamp T8 troffer |
|----------------------------------|----------------------------|
| Present wattage | 85 W |

| × Annual operating hours | | 4,380 | hrs |
|--------------------------|---|------------|--------------------------------|
| | = | 372,300 | Watt-Hours |
| ÷ 1,000 = | | 372.3 | kWh per year (rates will vary) |
| × kWh rate of \$0.10 = | | \$37.23 | per year |
| × 125 fixtures | | \$4,653.75 | annual energy cost per space |

Estimated lighting costs using a Philips 42L 2x4 Evokit G4

| gy cost per space |
|----------------------|
| |
| |
| ır (rates will vary) |
| |
| |
| |
| |

A Based on 125 fixtures per space operating 4.380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space

Footnotes:

- 1. L70 72,000 hours @ 35°C based on TM21 and LM80.
- 2. Based on photometric testing consistent with IES LM-79. Actual wattage may differ by +/- 10%. Actual initial lumen output may vary between -10 and +10% of the rated lumens
- 3. 0-10V Dimming products that are not HE (High Efficiency) do not support lumen level
- tuning with SimpleSet technology using the MultiOne Mobile smartphone app. Made to stock product (Contact your Philips sales representative for stock availability and lead time).
- Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.





© 2020 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.



Signify North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Telephone 855-486-2216

Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.

EvoKit LED retrofit kit gen 5 04/21 philips.com/lighting page 6 of 6

Telephone 800-668-9008



PHILIPS

Recessed

EvoKit LED Retrofit Kit Gen 5

Philips EvoKit LED Retrofit kit gen 5 is an energy efficient LED alternative to traditional linear fluorescent troffers that also helps reduce maintenance costs due to its long lifetime. Simple construction helps decrease installation times offering an installed LED solution within minutes.

Products can be found on the DLC QPL by searching the 6 digit product number. Additional information can be found at www.philips.com/evokit.

EvoKit with 0-10V Dimming ordering guide

| | Product No. (6NC) | Model No. (12NC) | Description | Watts (W) ¹ | Volts (V) | Lumen Maintenance (hours)² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) |
|---|-------------------------------------|---------------------|---------------------------------------|---------------------------|--------------|----------------------------------|----------------------------------------|-----------------------|--------------------|
| | 0-10V Dimm | ning | | | | | | | |
| ٠ | 527978 | 929002714213 | EvoKit 2x2 21L 15W 835 UNV 0-10 G5 | 15W | 120-277 | 70,000 | 2100 | 3500 | 140 |
| ٠ | 527986 | 929002714313 | EvoKit 2x2 21L 14W 840 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 4000 | 150 |
| | 527994 | 929002714413 | EvoKit 2x2 21L 14W 850 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 5000 | 150 |
| ٠ | 528000 | 929002714513 | EvoKit 2x2 31L 22W 835 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| ٠ | 528018 | 929002714613 | EvoKit 2x2 31L 22W 840 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 4000 | 141 |
| | 528026 | 929002714713 | EvoKit 2x2 31L 22W 850 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3100 | 5000 | 141 |
| | 528455 | 929002719013 | EvoKit 2x2 31L 23W 935 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| | 528034 | 929002714813 | EvoKit 2x4 36L 25W 835 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 3500 | 144 |
| ٠ | 528042 | 929002714913 | EvoKit 2x4 36L 25W 840 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 4000 | 144 |
| | 528059 | 929002715013 | EvoKit 2x4 36L 25W 850 UNV 0-10 G5 | 25W | 120-277 | 70,000 | 3600 | 5000 | 144 |
| ٠ | 528067 | 929002715113 | EvoKit 2x4 42L 28W 835 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 145 |
| ٠ | 528075 | 929002715213 | EvoKit 2x4 42L 28W 840 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 |
| | 528083 | 929002715313 | EvoKit 2x4 42L 28W 850 UNV 0-10 G5 | 28W | 120-277 | 70,000 | 4200 | 5000 | 150 |
| | 528463 | 929002719113 | EvoKit 2x4 42L 32W 935 UNV 0-10 G5 | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 |
| | High Efficiency 0-10 V Dimming | | | | | | | | |
| ٠ | 528091 | 929002715413 | EvoKit HE 2x2 21L 14W 835 UNV 0-10 G5 | 14W | 120-277 | 70,000 | 2100 | 3500 | 153 |
| ٠ | 528109 | 929002715513 | EvoKit HE 2x2 21L 13W 840 UNV 0-10 G5 | 13W | 120-277 | 70,000 | 2100 | 4000 | 162 |
| ٠ | 528125 | 929002715713 | EvoKit HE 2x2 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 |
| ٠ | 528133 | 929002715813 | EvoKit HE 2x2 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| | 528141 | 929002715913 | EvoKit HE 2x2 31L 20W 850 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 |
| | 528158 | 929002716013 | EvoKit HE 2x4 30L 19W 835 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 3500 | 158 |
| | 528166 | 929002716113 | EvoKit HE 2x4 30L 19W 840 UNV 0-10 G5 | 19W | 120-277 | 70,000 | 3000 | 4000 | 158 |
| ٠ | 528174 | 929002716213 | EvoKit HE 2x4 36L 23W 835 UNV 0-10 G5 | 23W | 120-277 | 70,000 | 3600 | 3500 | 157 |
| ٠ | 528182 | 929002716313 | EvoKit HE 2x4 36L 22W 840 UNV 0-10 G5 | 22W | 120-277 | 70,000 | 3600 | 4000 | 164 |
| ٠ | 528208 | 929002716513 | EvoKit HE 2x4 42L 26W 835 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 158 |
| ٠ | 528216 | 929002716613 | EvoKit HE 2x4 42L 26W 840 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 |
| | 528224 | 929002716713 | EvoKit HE 2x4 42L 26W 850 UNV 0-10 G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 |
| | 528232 | 929002716813 | EvoKit HE 2x4 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| | 528240 | 929002716913 | EvoKit HE 2x4 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| | 0-10V Step | Dimming | | | | | | | |
| | 528299 | 929002717413 | EvoKit HE 2x2 31L 22W 835 UNV STEP G5 | 22W | 120-277 | 70,000 | 3100 | 3500 | 142 |
| | 528307 | 929002717513 | EvoKit HE 2x2 31L 21W 840 UNV STEP G5 | 21W | 120-277 | 70,000 | 3100 | 4000 | 148 |
| | 528315 | 929002717613 | EvoKit HE 2x4 42L 28W 835 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 3500 | 150 |
| | 528323 | 929002717713 | EvoKit HE 2x4 42L 28W 840 UNV STEP G5 | 28W | 120-277 | 70,000 | 4200 | 4000 | 150 |
| | See footnotes o | on the last page. | | | | | | | |
| | EvoKit Gen 5 Spec 04/21 page 1 of 6 | | | | | | | | |



Project:

Cat.No:

Type:

Lamps:

Notes:

Qty:



EvoKit with Spacewise SWZDT ordering guide

| Product No. | Model No. | Description | Watts | Volts | Lumen Maintenance (hours) ² | Approx. Lumens (Im) ³ | Color Temp. (K) | Efficacy (Im/W) |
|---------------------------------|---------------------------------|----------------------------------------|-------|---------|----------------------------------------------|----------------------------------------|-----------------------|--------------------|
| Spacewise SWZDT | | | | | | (,) | | |
| 528471 | 929002719213 | EvoKit 2x2 31L 23W 935 UNV SWZDT G5 | 23W | 120-277 | 70,000 | 3100 | 3500 | 135 |
| 528489 | 929002719313 | EvoKit 2x4 42L 32W 935 UNV SWZDT G5 | 32W | 120-277 | 70,000 | 4200 | 3500 | 131 |
| High Efficiency Spacewise SWZDT | | | | | | | | |
| 528331 | 929002717813 | EvoKit HE 2x2 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 |
| 528349 | 929002717913 | EvoKit HE 2x2 31L 20W 840 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528356 | 929002718013 | EvoKit HE 2x2 31L 20W 850 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 5000 | 155 |
| 528380 | 929002718313 | EvoKit HE 2x4 42L 26W 835 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 3500 | 159 |
| 528398 | 929002718413 | EvoKit HE 2x4 42L 26W 840 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 4000 | 162 |
| 528406 | 929002718513 | EvoKit HE 2x4 42L 26W 850 UNV SWZDT G5 | 26W | 120-277 | 70,000 | 4200 | 5000 | 162 |
| 528414 | 929002718613 | EvoKit HE 2x4 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528422 | 929002718713 | EvoKit HE 2x4 47L 30W 840 UNV SWZDT G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| See footnotes o | See footnotes on the last page. | | | | | | | |

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Granular dimming (occupancy sharing)
- Dwell time
- Scene setting
- Configuration of sensor parametersif desired – using NFC or IR via intuitive Android-based Philips field apps
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and
- auto-off/partial-on application
- DLC qualified: Listed on the QPL for Networked Lighting Controls

Benefits

- Installation savings integral wireless controls factory installed. No need to order separate components.
- Minimal startup and configuration
- expertise savings on labor time & effort • Deep energy savings & code compliance
- strategies
 Faster ROI with attractive payback periods
- (varies depending on luminiare choices)

Applications

Conference rooms, individual offices, open offices, classrooms, storage and break areas, restrooms, lobbies.

SpaceWise wireless switch

To complete the SpaceWise System a wireless switch may be added.

Ordering code: UID8451/10



New configuration tool

An Android phone is needed for commissioning the system. Please refer to www.usa.lighting.philips.com/systems/lighting systems/spacewise for full list of compatible phones.



EvoKit Gen 5 Spec 04/21 page 2 of 6

Refer to the website for registration details:

www.usa.lighting.philips.com/support/support/tools/

Sensor parameters can be configured via Philips field apps. Two versions are available:

- 1. **NFC** This app allows configuring sensor parameters only when you can physically access the sensor with a smartphone.
- IR This app allows configuring sensor parameters plus enables grouping to a wireless switch, which can be done with the IR feature of applicable phones from floor level.

You must first register for the app to receive a username and password, then download Philips field apps from the Google Play Store.



EvoKit with air return ordering guide

| Product No. (6NC) | Model No. (12NC) | Description | Watts (W) ¹ | Volts (V) | Lumen Maintenance (hours) ² | Approx. Lumens (lm) ³ | Color Temp. (K) | Efficacy (lm/W) |
|----------------------------------------|---------------------------------------------|------------------------------------------|---------------------------|--------------|----------------------------------------------|----------------------------------------|-----------------------|--------------------|
| High Efficier | High Efficiency 0-10 V Dimming - Air Return | | | | | | | |
| 528257 | 929002717013 | Evokit HE 2x2 A 31L 21W 835 UNV 0-10 G5 | 21W | 120-277 | 70,000 | 3100 | 3500 | 148 |
| 528265 | 929002717113 | Evokit HE 2x2 A 31L 20W 840 UNV 0-10 G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528273 | 929002717213 | Evokit HE 2x4 A 47L 31W 835 UNV 0-10 G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528281 | 929002717313 | Evokit HE 2x4 A 47L 30W 840 UNV 0-10 G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| High Efficiency Spacewise - Air Return | | | | | | | | |
| 528364 | 929002718113 | Evokit HE 2x2 A 31L 20W 835 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 3500 | 152 |
| 528372 | 929002718213 | Evokit HE 2x2 A 31L 20W 840 UNV SWZDT G5 | 20W | 120-277 | 70,000 | 3100 | 4000 | 155 |
| 528430 | 929002718813 | Evokit HE 2x4 A 47L 31W 835 UNV SWZDT G5 | 31W | 120-277 | 70,000 | 4700 | 3500 | 152 |
| 528448 | 929002718913 | Evokit HE 2x4 A 47L 30W 840 UNV SWZDT G5 | 30W | 120-277 | 70,000 | 4700 | 4000 | 157 |
| See footnotes c | on the last page. | | | | | | | |

Air Return data

The air return versions of EvoKit are suitable for retrofitting listed air return troffers.

2x2 air return data

| Return Air Volume, SCFM. | 61 | 69 | 80 | 97 | 112 | 131 |
|-------------------------------------------|------|------|------|------|------|------|
| Negative Static Pressure, in. H_20 | 0.11 | 0.15 | 0.20 | 0.30 | 0.40 | 0.55 |
| Noise Criteria (NC)* | 17 | 21 | 25 | 31 | 34 | 38 |
| Note: 24 total air slots, each 30mm y 6mm | | | | | | |

Note: 24 total air slots, each 30mm x 6m

2x4 air return data

| Return Air Volume, SCFM. | 105 | 119 | 128 | 162 | 259 | 272 |
|-------------------------------------------|------|------|------|------|------|------|
| Negative Static Pressure, in. H_2^0 | 0.05 | 0.08 | 0.10 | 0.20 | 0.45 | 0.55 |
| Noise Criteria (NC)* | <15 | 32 | 32 | 36 | 38 | 40 |
| Noto: 50 total air slots, oach 30mm v 6mm | | | | | | |

Note: 50 total air slots, each 30mm x 6mm.

Dimensions 2x4

| A | B | C |
|------------|------------|------------|
| Face Plate | Face Plate | Face Plate |
| Length | Width | Height |
| | 22.0# | 2.05" |



Dimensions 2x2

| A | B | C |
|------------|------------|------------|
| Face Plate | Face Plate | Face Plate |
| Length | Width | Height |
| 23.9" | 23.9" | |



EvoKit Gen 5 Spec 04/21 page 3 of 6





Application

- A highly efficient, visually comfortable, architecturally styled LED retrofit kit designed to replace recessed linear fluorescent troffers.
- Unique modular design offers refreshing new look in the ceiling when compared to traditional fluorescent luminaires.
- Single light bar combined with slanted troffer helps reflect light to reduce glare and provide uniform light distribution making it ideal for applications such as offices, schools, healthcare and retail.
- Excellent color rendering with a CRI above 80.
- Extremely high efficacies up to 164 lumens per watt.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source.
- Designed for use with standard grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-Grids.
- High efficiency source and luminaire design help significantly reduce energy consumption and more easily comply with known energy codes.
- Helps meet regulation requirements such as ASHRAE 90.1 and Title 24 when matched with suitable controls.

Construction/Finish

- Simple design allows for quick installation in existing luminaire without the need to break the ceiling plenum.
- Constructed using galvanized steel which helps fight rust and makes for more durable product.
- Integrated securement tabs for securement to existing troffer housing.
- Minimum depth of only 3" necessary to allow proper clearance and installation of the EvoKit.
- Retrofit kit is powder coated after fabrication with high quality, durable finish to ensure no unfinished edges and avoid future potential of corrosion.
- Components fit together easily without the need for tools during installation.

Electrical

- Multiple driver options available
 Philips Advance Xitanium SR driver enables SpaceWise DT control system.
- Philips Advance drivers with 0-10V
- dimming allow for maximum fixture efficiency and provide 10% dimming.
- 7-year limited warranty in the HE (High Efficiency) units or 5-year limited warranty the other units includes all components of the retrofit kit, including driver, LED board and nonelectrical components.* Visit signify.com/warranties for complete Warranty information.
- Listed with UL and Design Lights
 Consortium** to ensure quality performance
 and safety standards are met.
- High efficiency LEDs have a minimum 70,000 hour rated life (L₇₀).

Enclosure

• Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

Accessories

- Suitable for use with Philips 503441 emergency backup.
- Earthquake cables available for additional securement to the existing troffer for areas where required.

| Prod. No. | Description |
|-----------|------------------------------------------------------------------------------------------------------------------------|
| 502435 | Earthquake cable 317mm |
| 517987 | EvoKit 2x4 replacement lens ribbed |
| 517748 | EvoKit 2x4 replacement lens smooth |
| 517979 | EvoKit 2x2 replacement lens ribbed |
| 517755 | EvoKit 2x2 replacement lens smooth |
| 503441 | EvoKit field installed emergency battery backup (requires the use of bracket) |
| 517730 | EvoKit emergency battery backup bracket (comes in pack of 4). Two emergency brackets needed per battery pack. |

 Please visit www.philips.com/warranties for full details.
 Evokit luminaires are Design Lights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL).

EvoKit with new SimpleSet technology for wireless lumen level programming

EvoKit with new SimpleSet technology allows the maximum lumen level to be set prior to installation using a smartphone-based app without requiring power to the luminaire. Available in HE versions only. The app can be downloaded at Google Play. Please contact your Philips representative for the current list of approved Android smartphones. Distributors can set lumen levels prior to shipping, and contractors can set lumen levels prior to installation. Lumen level is quickly and easily set in two steps:



Step 1: Place the smartphone next to the NFC antenna on the driver

Step 2: Follow the on-screen instructions

EvoKit Gen 5 Spec 04/21 page 4 of 6



EvoKit gen 5 LED, 2'x2', 21L, 14W, 80 CRI, 3500K CCT, UNV 0-10, 2100 delivered lumens



EvoKit gen 5 LED, 2'x 4', 37L, 26W, 80 CRI, 3500K CCT, UNV 0-10, 3600 delivered lumens

Candlanawar



Test No. 104271456CHI-003 **S/MH** 1.2 **Lumens/Watt** 142 **Input Watts**

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on tests performed in compliance with LM-79.

| canacepotter | | | | | |
|--------------|------|------|------|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1300 | 1300 | 1300 | 1300 | 1300 |
| 5 | 1281 | 1283 | 1293 | 1306 | 1317 |
| 10 | 1267 | 1268 | 1280 | 1293 | 1302 |
| 15 | 1241 | 1237 | 1248 | 1262 | 1271 |
| 20 | 1198 | 1190 | 1202 | 1216 | 1225 |
| 25 | 1142 | 1131 | 1143 | 1157 | 1165 |
| 30 | 1073 | 1060 | 1074 | 1088 | 1096 |
| 35 | 992 | 980 | 995 | 1010 | 1017 |
| 40 | 902 | 890 | 908 | 925 | 934 |
| 45 | 804 | 794 | 816 | 838 | 848 |
| 50 | 705 | 697 | 724 | 754 | 767 |
| 55 | 602 | 600 | 635 | 674 | 689 |
| 60 | 502 | 504 | 551 | 596 | 614 |
| 65 | 403 | 414 | 471 | 520 | 537 |
| 70 | 305 | 330 | 392 | 439 | 454 |
| 75 | 212 | 248 | 308 | 346 | 359 |
| 80 | 127 | 170 | 215 | 237 | 241 |
| 85 | 52 | 87 | 110 | 119 | 120 |
| 90 | 0 | 0 | 0 | 0 | 0 |

| percen | tuges | | | |
|--------|-----------------|-------|--------|--|
| Zone | Lumer | ns %F | ixture | |
| 0-20 | 47 | 5 | 13% | |
| 0-30 | 100 | 2 | 27% | |
| 0-40 | 162 | з. | 44% | |
| 0-60 | 2820 | С | 76% | |
| 0-80 | 358 | 8 | 97% | |
| 0-90 | 369 | 5 10 | 00% | |
| Averag | erage Luminance | | | |
| Angle | 0° | 45° | 90° | |
| 45 | 1528 | 1551 | 1612 | |
| 55 | 1412 | 1487 | 1615 | |
| 65 | 1280 | 1499 | 1709 | |
| 75 | 1103 | 1602 | 1865 | |
| 85 | 802 | 1701 | 1845 | |

Zonal lumens &



EvoKit Gen 5 Spec 04/21 page 5 of 6



Energy saving solution - EvoKit 2'x4'

| Estimated lighting costs using a | standard 3 lamp T8 troffer |
|----------------------------------|----------------------------|
| Present wattage | 85 W |

| i resent mattage | | 05 | |
|--------------------------|---|------------|--------------------------------|
| × Annual operating hours | | 4,380 | hrs |
| | = | 372,300 | Watt-Hours |
| ÷ 1,000 = | | 372.3 | kWh per year (rates will vary) |
| × kWh rate of \$0.10 = | | \$37.23 | per year |
| × 125 fixtures | | \$4,653.75 | annual energy cost per space |

Estimated lighting costs using a Philips 42L 2x4 Evokit G4

| Total estimated annual savings | \$3,230.25 | |
|--------------------------------|------------|--------------------------------|
| × 125 fixtures | \$1,423.50 | annual energy cost per space |
| × kWh rate of \$0.10 = | \$11.39 | per year |
| ÷ 1,000 = | 113.88 | kWh per year (rates will vary) |
| = | 113,880 | Watt-Hours |
| × Annual operating hours | 4,380 | hrs |
| Present wattage | 26 | W |

\$3,230.25

A Based on 125 fixtures per space operating 4.380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space

Footnotes:

1. L70 72,000 hours @ 35°C based on TM21 and LM80.

- 2. Based on photometric testing consistent with IES LM-79. Actual wattage may differ by +/- 10%. Actual initial lumen output may vary between -10 and +10% of the rated lumens
- 3. 0-10V Dimming products that are not HE (High Efficiency) do not support lumen level
- tuning with SimpleSet technology using the MultiOne Mobile smartphone app. Made to stock product (Contact your Philips sales representative for stock availability and lead time).
- Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.





© 2020 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.



Signify North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Telephone 855-486-2216

Signify Canada Ltd. Markham, ON, Canada L6C 2S3

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.

EvoKit LED retrofit kit gen 5 04/21 philips.com/lighting page 6 of 6

281 Hillmount Road, Telephone 800-668-9008











ORDERING INFORMATION

Part Number = Style + Size + Light Engine + Color Temperature + Options (Example: K-24LT-F4L0-1S-35 = 2'x4' LT retrofit kit with a 20 watt light engine & 3500K LED Boards)

| STYLE | SIZE | LIGHT ENGINE 2x2 1 Strip | LIGHT ENGINE 2x2 Multiple | COLOR TEMPERATURE | OPTIONS |
|------------------|----------------|-----------------------------|------------------------------|---------------------------|-------------------|
| K - RETROFIT KIT | 22LT - 2' X 2' | F2X5-1S - 16W - 2000 LUMENS | F2X5-2S - 15W - 1994 LUMENS | 35 - 3500K LED COLOR TEMP | FR - FROSTED LENS |
| | | F2L0-1S - 20W - 2532 LUMENS | F2L0-2S - 20W - 2507 LUMENS | 40 - 4000K LED COLOR TEMP | D - DIMMING |
| | | F2L4-1S - 24W - 3041 LUMENS | F2L4-2S - 24W - 3055 LUMENS | 50 - 5000K LED COLOR TEMP | |
| | | | F2N0-2S - 30W - 3855 LUMENS | | |
| | | | F2N6-2S - 36W - 4660 LUMENS | | |
| | | | F2N8-2S - 38W - 4912 LUMENS | | |
| | | | F2M2-2S - 42W - 5367 LUMENS | | |
| | | | F2H2-3S - 52W - 6688 LUMENS | | |
| | | | F2H8-3S - 59W - 7575 LUMENS | | |

| STYLE | SIZE | LIGHT ENGINE 2x4 1 Strip | LIGHT ENGINE 2x4 Multiple | COLOR TEMPERATURE | OPTIONS |
|------------------|----------------|-----------------------------|------------------------------|---------------------------|-------------------|
| K - RETROFIT KIT | 24LT - 2' X 4' | F4L0-1S - 20W - 2958 LUMENS | F4L0-2S - 20W - 2974 LUMENS | 35 - 3500K LED COLOR TEMP | FR - FROSTED LENS |
| | | F4L4-1S - 24W - 3451 LUMENS | F4L5-2S - 25W - 3652 LUMENS | 40 - 4000K LED COLOR TEMP | D - DIMMING |
| | | F4L8-1S - 28W - 3974 LUMENS | F4N0-2S - 30W - 4425 LUMENS | 50 - 5000K LED COLOR TEMP | |
| | | F4N2-1S - 32W - 4488 LUMENS | F4N6-2S - 36W - 5298 LUMENS | | |
| | | F4N6-1S - 36W - 5092 LUMENS | F4M0-2S - 40W - 5837 LUMENS | | |
| | | F4M0-1S - 40W - 5536 LUMENS | F4M4-2S - 44W - 6372 LUMENS | | |
| | | | F4H2-2S - 52W - 7427 LUMENS | | |
| | | | F4VO-25 - 60W - 8464 LUMENS | | |
| | | | F4V9-2S - 69W - 9683 LUMENS | | |
| | | | F4Z0-2S - 81W - 11114 LUMENS | | |













ORDERING INFORMATION

Part Number = Style + Size + Light Engine + Color Temperature + Options (Example: K-24LT-F4L0-1S-35 = 2'x4' LT retrofit kit with a 20 watt light engine & 3500K LED Boards)

| STYLE | SIZE | LIGHT ENGINE 2x2 1 Strip | LIGHT ENGINE 2x2 Multiple | COLOR TEMPERATURE | OPTIONS |
|------------------|----------------|-----------------------------|------------------------------|---------------------------|-------------------|
| K - RETROFIT KIT | 22LT - 2' X 2' | F2X5-1S - 16W - 2000 LUMENS | F2X5-2S - 15W - 1994 LUMENS | 35 - 3500K LED COLOR TEMP | FR - FROSTED LENS |
| | | F2L0-1S - 20W - 2532 LUMENS | F2L0-2S - 20W - 2507 LUMENS | 40 - 4000K LED COLOR TEMP | D - DIMMING |
| | | F2L4-1S - 24W - 3041 LUMENS | F2L4-2S - 24W - 3055 LUMENS | 50 - 5000K LED COLOR TEMP | b |
| | | | F2N0-2S - 30W - 3855 LUMENS | | |
| | | | F2N6-2S - 36W - 4660 LUMENS | | |
| | | | F2N8-25 - 38W - 4912 LUMENS | | |
| | | | F2M2-2S - 42W - 5367 LUMENS | | |
| | | | F2H2-3S - 52W - 6688 LUMENS | | |
| | | | F2H8-3S - 59W - 7575 LUMENS | | |

| STYLE | SIZE | LIGHT ENGINE 2x4 1 Strip | LIGHT ENGINE 2x4 Multiple | COLOR TEMPERATURE | OPTIONS |
|------------------|----------------|-----------------------------|------------------------------|---------------------------|-------------------|
| K - RETROFIT KIT | 24LT - 2' X 4' | F4L0-1S - 20W - 2958 LUMENS | F4L0-2S - 20W - 2974 LUMENS | 35 - 3500K LED COLOR TEMP | FR - FROSTED LENS |
| | | F4L4-1S - 24W - 3451 LUMENS | F4L5-2S - 25W - 3652 LUMENS | 40 - 4000K LED COLOR TEMP | D - DIMMING |
| | | F4L8-1S - 28W - 3974 LUMENS | F4N0-2S - 30W - 4425 LUMENS | 50 - 5000K LED COLOR TEMP | SD - STEP DIMMING |
| | | F4N2-1S - 32W - 4488 LUMENS | F4N6-2S - 36W - 5298 LUMENS | | |
| | | F4N6-1S - 36W - 5092 LUMENS | F4M0-2S - 40W - 5837 LUMENS | | |
| | | F4M0-1S - 40W - 5536 LUMENS | F4M4-2S - 44W - 6372 LUMENS | | |
| | | | F4H2-2S - 52W - 7427 LUMENS | | |
| | | | F4VO-2S - 60W - 8464 LUMENS | | |
| | | | F4V9-2S - 69W - 9683 LUMENS | | |
| | | | F4Z0-2S - 81W - 11114 LUMENS | | |





LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — The LBK kit provides a simple, cost-effective integrated LED solution for retrofit in nearly any fluorescent fixture with T8, T12, or T5 lamps. Lightbar kits provide the reliability, thermal performance, and longevity of integrated LED systems with the simplicity of installing wherever fluorescent lamps are used. Existing fluorescent lampholders and ballasts are <u>not</u> used for operation, greatly increasing reliability of system.

CONSTRUCTION & OPTICS — Rigid, formed steel channel with high-performance LED boards mounted directly for optimal thermal performance. Diffuse acrylic lens increases uniformity and controls brightness. LBK is available in standard 4', 2', and 3' configurations for increased flexibility in linear applications.

ELECTRICAL — Long-life LEDs coupled with high-efficiency drivers provide extended service life. LBK is rated to deliver greater than L80 performance at 60,000 hours (Calculated L70 > 140,000 hrs). LEDs are high efficiency for lightbar kit performance levels exceeding 150 LPW.

INSTALLATION — Magnets secure lightbar for easy positioning and alignment. Self-tapping Tek screws are included to secure bar for final installation. Drivers are mounted in existing ballast channel. Lightbars and drivers plug together with modular wiring harness in a configuration specified when ordering for installation simplicity.

LISTINGS — UL/cUL Classified for damp location. Tested to LM80 standards. Made in North America for standard TAA compliance. BAA compliant product is available (consult factory)

DesignLights Consortium[®] (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to <u>www.acuitybrands.com/</u> <u>buy-american</u> for additional information.

WARRANTY — Five-year warranty coverage of luminaires includes fixture construction, LED light engine, and driver. Terms and conditions apply. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Extended warranties may be available for certain applications.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

| | LBK LightBar Kit LED Retrofit System |
|-------------------|--------------------------------------|
| Туре | |
| Notes | |
| Catalog Number | |



<u>Specifications</u> Length: 46.25", 34.40", 22.63" Width: 1.61" Height: 0.9"



| | (D | 1600LMHE | 2000LMHE | 3000LMHE | 4000LMHE | 6000LMHE | 8000LMHE | 12000LMHE |
|------|--------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|
| LDI | Performance | 10W | 13W | 20W | 26W | 39W | 51W | 77W |
| | 2FT - 1 bar - 40K | 1475 LM 9.9 W 149 LPW | 1995 LM 13.3 W | | | | | |
| | 2FT - 2 bars - 40K | 1485 LM 9.9 W 150 LPW | 2,005 LM 13.3 W 151 LPW | 3,045 LM 20.0 W 152 LPW | 3,908 LM 25.1 W 155 LPW | | | |
| 211 | 2FT - 3 bars - 40K | | 1,985 LM 13.2 W 151 LPW | 3,009 LM 19.7 W 153 LPW | 3,891 LM 24.7 W 158 LPW | 5,703 LM 37.4 W 152 LPW | | |
| | 2FT - 4 bars - 40K | | | | | 5663 LM 37.5 W 151 LPW | 7,708 LM 50.5 W 153 LPW | |
| | | | | | | | | |
| | 3FT - 1 bar - 40K | 1,463 LM 9.9 W 147 LPW | 1990 LM 13.3 W 150 LPW | 3000 LM 20.0 W 150 LPW | 3970 LM 25.1 W 158 LPW | | | |
| 3 FT | 3FT - 2 bars - 40K | 10 211 | 2000 LM 13.2 W 152 LPW | 3,087 LM 19.7 W 157 LPW | 4000 LM 25.1 W 159 LPW | 5650 LM 37.4 W 151 LPW | | |
| | | | 1022111 | 137 2111 | 10000 | 131211 | | |
| | 4FT - 1 bar - 40K | 1,564 LM 9.9 W 158 LPW | 2,022 LM 13.2 W 153 LPW | 3,057 LM 19.9W 154 LPW | 3,938 LM 24.9 W 158 LPW | 5775 LM 37.5 W 154 LPW | | |
| | 4FT - 2 bars - 40K | | 2,061 LM 13.1 W 158 LPW | 3,149 LM 19.6 W 161 LPW | 4,097 LM 24.5 W 167 LPW | 6,007 LM 37.2 W 162 LPW | 7,903 LM 50.3 W 157 LPW | |
| 411 | 4FT - 3 bars - 40K | | | 3,151 LM 19.5 W 162 LPW | 4,044 LM 24.3 W 166 LPW | 6,025 LM 36.7 W 164 LPW | 7925 LM 50.5 W 157 LPW | |
| | 4FT - 4 bars - 40K | | | | 4050 LM 25.0 W 162 LPW | 6050 LM 36.7 W 165 LPW | 8,140 LM 49.4 W 165 LPW | 11,979 LM 74.9 W 160 LPW |

COMMERCIAL INDOOR



| ORDERING INFORMATION | | | | | | Exampl | e: LBK 4FT 2 3000LM | MHE 80CRI 40K MIN10 ZT MVOLT J12 |
|------------------------------------------------------------------------------|----------------------------------------|--------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| | | | | | | | | |
| Series | Fixture Dimen | ion | # Bars | Lumens | Output | | CRI | Color Temperature |
| LBK LED Lightbar Kit | 2FT 2' | | 1 bar 2 bars 3 bars 4 bars | 1600LMH 2000LMH 3000LMH 4000LMH 6000LMH 8000LMH | IE Nominal 1600 lumens high effic IE Nominal 2000 lumens high effic IE Nominal 3000 lumens high effic IE Nominal 4000 lumens high effic IE Nominal 4000 lumens high effic IE Nominal 4000 lumens high effic IE Nominal 6000 lumens high effic Nominal 8000 lumens high effic Nominal 8000 lumens high effic | iency ^{1,2} iency ^{1,2,3} iency ^{2,3} iency ^{2,3} iency ^{3,4} iency ⁴ | 80CRI 80CRI | 35K 3500K 40K 4000K 50K 5000K |
| | 3FT 3' | | 1 1 bar 2 2 bars | 1600LMH 2000LMH 3000LMH 4000LMH 6000LMH | IE Nominal 1600 lumens high effic IE Nominal 2000 lumens high effic IE Nominal 3000 lumens high effic IE Nominal 4000 lumens high effic Nominal 4000 lumens high effic Nominal 6000 lumens high effic | iency ¹ <mark>iency^{1,2}</mark> iency iency ^{1,2} iiency ² | | |
| | 4FT 4' | | 1 1 bar 2 2 bars 3 3 bars 4 4 bars | 1600LMH 2000LMH 3000LMH 4000LMH 6000LMH 8000LMH 12000LM | IE Nominal 1600 lumens high effic Nominal 2000 lumens high effic Nominal 3000 lumens high effic IE Nominal 3000 lumens high effic Nominal 4000 lumens high effic Nominal 6000 lumens high effic Nominal 8000 lumens high effic Nominal 8000 lumens high effic IE Nominal 2000 lumens high effic Nominal 2000 lumens high effic Nominal 12000 lumens high effic | iency ¹ iency ^{1,2} iency ^{1,2,3} iency ^{1,2,3,4} iency ^{1,2,3,4} iency ^{2,3,4} iciency ^{2,3,4} | | |
| | | | | | | | | |
| Minimum Dimming Level MIN10 Constant current, dim MIN1 Constant current, dim | <mark>ning to 10%</mark> ning to 1% | Control ZT G EZT e | Input Seneric 0-10V Dimi IdoLED 0-10V Dim | ming ^s ming ⁶ | Voltage MVOLT MVOLT, 120-277V | Options NAxx (UFC FAO J2 J6 | Customer-specific options DOD Unified Facility Criter Field adjustable output de Job pack of 2 kits (1-bar & Job pack of 6 kits (4-bar ki | ,7 ia compliant driver ^{7,8} evice 2-bar kits only) ⁹ ts only) ⁹ |

- J12 Job pack of 12 kits (2-bar kits only)9 BAA
 - Buy America(n) Act Compliant

| Accessories: Order as | separate catalog number. |
|--------------------------|-------------------------------------------------------------------------------------------------|
| <u>ILB CP10 HE B M20</u> | IOTA 10 Watt Constant Power, High Efficiency LED Emergency Driver for CA Title 20 ¹⁰ |
| LBKXFMR | 347V Autotransformer ¹⁰ |

Emergency Battery Pack Options – Field Installable

| Battery Model Number | Wattage | Runtime (Minutes) | Lumen Output* @ 120 Lumens/Watt | Other |
|----------------------|---------|----------------------|------------------------------------|---------------------------|
| ILB CP07 2H A | 7W | 120 | 840 | FEMA Specification |
| ILB CP10 A | 10W | 90 | 1200 | |
| ILBLP CP10 HE SD A | 10W | 90 | 1200 | Title 20, Self Diagnostic |
| ILBLP CP15 HE SD A | 15W | 90 | 1800 | Title 20, Self Diagnostic |
| ILB CP20 HE A | 20W | 90 | 2400 | Title 20 |
| ILB CP20 HE SD A | 20W | 90 | 2400 | Title 20, Self Diagnostic |

All the above are UL Listed products that are certified for field install external/remote to the fixture. *Minimum delivered lumen output to assist in product selection for increased fixture mounting height. The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast. Please contact us at productsupportemergency@acuitybrands.com for any Emergency Battery related questions.

NOTES

- 1. Available with # Bars qty 1. Available with # Bars qty 2. 2.
- Available with # Bars qty 3.
- 4. Available with # Bars qty 4.
- 5. Only available with MIN10.
- 6. Only available with MIN1.
- 7. Consult factory for details on availability. Must be ordered with MIN10 ZT. 8.
- 9. Job packs include multiple bars, drivers, and hardware in single carton.
- 10. Field-installed by contractor.

🖊 LITHONIA LIGHTING

© 2020-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 02/24/22





FEATURES & SPECIFICATIONS

INTENDED USE — The LBK kit provides a simple, cost-effective integrated LED solution for retrofit in nearly any fluorescent fixture with T8, T12, or T5 lamps. Lightbar kits provide the reliability, thermal performance, and longevity of integrated LED systems with the simplicity of installing wherever fluorescent lamps are used. Existing fluorescent lampholders and ballasts are <u>not</u> used for operation, greatly increasing reliability of system.

CONSTRUCTION & OPTICS — Rigid, formed steel channel with high-performance LED boards mounted directly for optimal thermal performance. Diffuse acrylic lens increases uniformity and controls brightness. LBK is available in standard 4', 2', and 3' configurations for increased flexibility in linear applications.

ELECTRICAL — Long-life LEDs coupled with high-efficiency drivers provide extended service life. LBK is rated to deliver greater than L80 performance at 60,000 hours (Calculated L70 > 140,000 hrs). LEDs are high efficiency for lightbar kit performance levels exceeding 150 LPW.

INSTALLATION — Magnets secure lightbar for easy positioning and alignment. Self-tapping Tek screws are included to secure bar for final installation. Drivers are mounted in existing ballast channel. Lightbars and drivers plug together with modular wiring harness in a configuration specified when ordering for installation simplicity.

LISTINGS — UL/cUL Classified for damp location. Tested to LM80 standards. Made in North America for standard TAA compliance. BAA compliant product is available (consult factory)

DesignLights Consortium[®] (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to <u>www.acuitybrands.com/</u> <u>buy-american</u> for additional information.

WARRANTY — Five-year warranty coverage of luminaires includes fixture construction, LED light engine, and driver. Terms and conditions apply. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Extended warranties may be available for certain applications.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

| Туре | _ |
|-------------------|---|
| | |
| Notes | |
| Catalog Number | |



(<u>.</u> .

Specifications Length: 46.25", 34.40", 22.63" Width: 1.61" Height: 0.9"



| 1.04 | (D | 1600LMHE | 2000LMHE | 3000LMHE | 4000LMHE | 6000LMHE | 8000LMHE | 12000LMHE |
|------|--------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|
| LDF | renormance | 10W | 13W | 20W | 26W | 39W | 51W | 77W |
| | 2FT - 1 bar - 40K | 1475 LM 9.9 W 149 LPW | 1995 LM 13.3 W 150 LPW | | | | | |
| 2 FT | 2FT - 2 bars - 40K | 1485 LM 9.9 W 150 LPW | 2,005 LM 13.3 W 151 LPW | 3,045 LM 20.0 W 152 LPW | 3,908 LM 25.1 W 155 LPW | | | |
| | 2FT - 3 bars - 40K | | 1,985 LM 13.2 W 151 LPW | 3,009 LM 19.7 W 153 LPW | 3,891 LM 24.7 W 158 LPW | 5,703 LM 37.4 W 152 LPW | | |
| | 2FT - 4 bars - 40K | | | | | 5663 LM 37.5 W 151 LPW | 7,708 LM 50.5 W 153 LPW | |
| | | | | | | | | |
| | 3FT - 1 bar - 40K | 1,463 LM 9.9 W 147 LPW | 1990 LM 13.3 W 150 I PW | 3000 LM 20.0 W 150 LPW | 3970 LM 25.1 W 158 LPW | | | |
| 3 FT | 3FT - 2 bars - 40K | | 2000 LM 13.2 W 152 LPW | 3,087 LM 19.7 W 157 LPW | 4000 LM 25.1 W 159 LPW | 5650 LM 37.4 W 151 LPW | | |
| | | | 132.2111 | 1372111 | 1072111 | 1372111 | | |
| | 4FT - 1 bar - 40K | 1,564 LM 9.9 W 158 LPW | 2,022 LM 13.2 W 153 LPW | 3,057 LM 19.9W 154 LPW | 3,938 LM 24.9 W 158 LPW | 5775 LM 37.5 W 154 LPW | | |
| 457 | 4FT - 2 bars - 40K | | 2,061 LM 13.1 W 158 LPW | 3,149 LM 19.6 W 161 LPW | 4,097 LM 24.5 W 167 LPW | 6,007 LM 37.2 W 162 LPW | 7,903 LM 50.3 W 157 LPW | |
| 411 | 4FT - 3 bars - 40K | | | 3,151 LM 19.5 W 162 LPW | 4,044 LM 24.3 W 166 LPW | 6,025 LM 36.7 W 164 LPW | 7925 LM 50.5 W 157 LPW | |
| | 4FT - 4 bars - 40K | | | | 4050 LM 25.0 W 162 LPW | 6050 LM 36.7 W 165 LPW | 8,140 LM 49.4 W 165 LPW | 11,979 LM 74.9 W 160 LPW |

COMMERCIAL INDOOR



| ORDERING INFORMATION | | | | | Examp | le: LBK 4FT 2 3000LN | NHE 80CRI 40K MIN10 ZT MVOLT J12 |
|-------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| | | | | | | | |
| Series | Fixture Dimens | ion #Bars | Lumens | Output | | CRI | Color Temperature |
| LBK LED Lightbar Kit | 2FT 2' | 1 1 bar 2 2 bars 3 3 bars 4 4 bars | 1600LMH 2000LMH 3000LMH 4000LMH 6000LMH 8000LMH | E Nominal 1600 lumens high effic Nominal 2000 lumens high effic Nominal 3000 lumens high effic Nominal 4000 lumens high effic Nominal 6000 lumens high effic Nominal 8000 lumens high effic | ciency ^{1,2} ciency ^{1,2,3} ciency ^{2,3} ciency ^{2,3} ciency ^{3,4} ciency ⁴ | 80CRI 80CRI | 35K 3500K 40K 4000K 50K 5000K |
| | 3FT 3' | 1 1 bar 2 2 bars | 1600LMH 2000LMH 3000LMH 4000LMH 6000LMH | E Nominal 1600 lumens high effic E Nominal 2000 lumens high effic E Nominal 3000 lumens high effic E Nominal 4000 lumens high effic E Nominal 6000 lumens high effic | ciency ¹ ciency ^{1,2} ciency ciency ^{1,2} ciency ² | | |
| | 4FT 4') | 1 1 bar 2 2 bars 3 3 bars 4 4 bars | 1600LMH 2000LMH 3000LMH 4000LMH 6000LMH 8000LMH 12000LM | E Nominal 1600 lumens high effic Nominal 2000 lumens high effic Nominal 3000 lumens high effic Nominal 4000 lumens high effic Nominal 6000 lumens high effic Nominal 8000 lumens high effic Nominal 12000 lumens high effic | ciency ¹ ciency ^{1,2} ciency ^{1,2,3} ciency ^{1,2,3,4} ciency ^{1,2,3,4} ciency ^{2,3,4} ciency ⁴ | | |
| | | | | | | | |
| Minimum Dimming Level | | Control Input | | Voltage | Options | | |
| MIN10 Constant current, dimi MIN1 Constant current, dimi | ning to 10% ning to 1% | ZT Generic 0-10V Dim EZT eldoLED 0-10V Din | <mark>ming⁵</mark> nming⁵ | MVOLT MVOLT, 120-277V | NAxx UFC FAO | Customer-specific options DOD Unified Facility Criteri Field adjustable output de | 7 a compliant driver ^{7,8} vice |

| J2 | Job pack of 2 kits (1-bar & 2-bar kits only) ⁹ |
|----|-----------------------------------------------------------|
| J6 | Job pack of 6 kits (4-bar kits only) ⁹ |

J2

- J12 Job pack of 12 kits (2-bar kits only)9
- BAA Buy America(n) Act Compliant

| Accessories: Order as | separate catalog number. |
|-----------------------|----------------------------------------------------------------------------------------------|
| ILB CP10 HE B M20 | IOTA 10 Watt Constant Power, High Efficiency LED Emergency Driver for CA Title 20 $^{ m 10}$ |
| LBKXFMR | 347V Autotransformer ¹⁰ |

Emergency Battery Pack Options – Field Installable

| Battery Model Number | Wattage | Runtime (Minutes) | Lumen Output* @ 120 Lumens/Watt | Other |
|----------------------|---------|----------------------|------------------------------------|---------------------------|
| ILB CP07 2H A | 7W | 120 | 840 | FEMA Specification |
| ILB CP10 A | 10W | 90 | 1200 | |
| ILBLP CP10 HE SD A | 10W | 90 | 1200 | Title 20, Self Diagnostic |
| ILBLP CP15 HE SD A | 15W | 90 | 1800 | Title 20, Self Diagnostic |
| ILB CP20 HE A | 20W | 90 | 2400 | Title 20 |
| ILB CP20 HE SD A | 20W | 90 | 2400 | Title 20, Self Diagnostic |

All the above are UL Listed products that are certified for field install external/remote to the fixture. *Minimum delivered lumen output to assist in product selection for increased fixture mounting height. The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast. Please contact us at productsupportemergency@acuitybrands.com for any Emergency Battery related questions.

NOTES

© 2020-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 02/24/22

- 1. Available with # Bars qty 1.
- Available with # Bars qty 2. Available with # Bars qty 3.
- 4. Available with # Bars qty 4.
- 5. Only available with MIN10.
- 6. Only available with MIN1.
- Consult factory for details on availability.
- Must be ordered with MIN10 ZT. 8. 9. Job packs include multiple bars, drivers, and hardware in single carton.
- 10. Field-installed by contractor.

🖊 LITHONIA LIGHTING



LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices. CONSTRUCTION — Retrofit, remodel, and new construction mounting types. See table for compatible ceiling openings and thickness range.

Optional goof rings available for additional overlap trim coverage.

1/2"-1-1/2" ceiling thickness

25° ambient temperature

IC rated up to 1000lm

OPTICS — 55° cutoff

New construction frame accessories approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90° C through wiring.

1.0 S/MH standard (wallwash reflector available)

80CRI standard (90CRI optional)

ELECTRICAL — Adjustable lumen output with three module options. Fixed lumen options also available. MVOLT 120/277V 50/60Hz driver (0-10V & 120V Phase Dimming to 10% min dimming level)

100LPW typical FCC CFR Title 47 Part 15 Class A for 277V. FCC CFR Title 47 Part 15 Class B for 120V.

L80 at 60,000 hours

3 SDCM

LISTINGS — Certified to US and Canadian safety standards. Title 24 compliant (90CRI, up to 1000lm) Damp location standard (Wet location, covered ceiling optional). Some configurations are ENERGY STAR* certified, please visit <u>www.energystar.gov</u> for specific products. TAA compliant. UFC (3-530-01) specification compliant for power factor and THD. GSA P100 6.2.4 compliant for power quality at full output; compliant up to 2000lm at fully dimmed output.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

A+ Capable options indicated by this color background.

Module ordering

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: LBR8 ALO2 SWW1 AR LSS MWD MVOLT UGZ 90CRI

| Series | | Lumens [‡] | Color temperature [‡] | Reflector Color | Reflector Flange | Reflector Finish | | | | |
|----------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------|--|--|--|--|
| LBR8 LBR8WW | 8" Retrofit 8" Retrofit Wallwash | Adjustable Lumen Output AL01 500/750/1000lm AL02 1000/1500/2000lm AL03 2000/2500/3000lm Fixed Lumen Output 05LM 05LM 500lm 07LM 750lm 10LM 1000lm 15LM 1500lm 20LM 2000lm 25LM 2500lm 30LM 3000lm | Switchable CCT SWW1 3000K-3500K-4000K-5000K Fixed CCT 30K 3000K 35K 3500K 40K 4000K 50K 5000K | (AR) Clear WR ¹ White painted BR ¹ Black painted | (blank) Self-flanged TRW [#] White painted flange TRBL [‡] Black painted flange | LSS Semi-specular | | | | |
| | | | | | | | | | | |

| Distribution | | Voltage | | Driver | | Options | | | | | | | |
|--------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| MWD WW⁵ | <mark>Medium wide</mark> (1.0 s/mh) Wallwash | MVOLT 120V - 277V UGZ Universal dimming to 10% 0-10V; line voltage dimming (120V) 347V DALI DALI dimming to 1% D10 Minimum dimming 10% driver for use with JOT D1 Minimum dimming 1% driver for use with JOT | | 90CRI AT [‡] E10WCPR [‡] ELR [‡] | High CRI (90+) Airtight Batterypack (10W constant power) T20 Compliant remote test switch Batterypack (10W constant power) Non-T20 Compliant remote test switch | EC1 [‡] EC6 [‡] WL ⁷ QDS [‡] CP [‡] JOT [‡] | Extended Conduit (18") Extended Conduit (6ft) Wet Location (IP55) Quick disconnect plugs Chicago Plenum Wireless room control with "Just One Touch" pairing | | | | | | |
| | | | | | | | | | | | | | |

| nLight Opti | nLight Options* | | | tion Frames: Order as separate catalog number. Shipped separately. | | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| NPP16D NPP16DER NLTAIR2 | nLight® network power/relay pack with 0-10V dimming nLight® network power/relay pack with 0-10V dimming; ER controls fixtures on emergency circuit. nLight® Air enabled | | LBR8PFW LBR8PFWQDS LBR8PFWCP | 8" New construction frame with JBOX, 18" conduit 8" New construction frame with JBOX, 18" conduit, quick disconnects 8" Chicago Plenum New construction frame with JBOX, 18" conduit | | |
| NLTAIRER2 NLTAIREM2 | nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. | | NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value C Restictions chart on the next page. | | | |

DOWNLIGHTING



Notes

Notes

Туре



8" OPEN

Retrofit | Remodel



New Construction





| | Option Value Ordering Restrictions |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Options | Restriction |
| Lumens | Fixed CCT and lumens must be specified together (for example: 10LM 30K). |
| WR, BR | Not available with reflector finish. |
| TRW | For use with Clear (AR) reflector finish only. Not applicable with WR (white reflector). |
| TRBL | For use with Clear (AR) reflector finish only. Not applicable with BR (black reflector). |
| WW | Only available with WW Series (for example LBR4WW). |
| DALI | Not available with Fixed CCT and lumens. |
| D10, D1 | Only available with JOT |
| AT | Standard for CP and IP55, not available with WW. |
| ELR, E10WCPR | Not available QDS, CP, 347V, NPP16D ER, NLTAIRER2, or NLTAIREM2. |
| EC1, EC6 | Not Available with CP,QDS, ELR, or E10WCPR. |
| WL | IP55 rated; Not available with WW, All CP is wet locations, excluding WW (Damp listed) |
| QDS | Not available CP, ELR, E10WCPR, or 347V. |
| JOT | Not available with CP, NPP16D, NPP16D ER, NLTAIR2, NLTAIRER2, NLTAIREM2, UGZ, or DALI drivers. 4-1/2" minimum plenum depth required. Not recommended for use in metal ceilings. |
| NPP16D | Not available with CP, QDS, DALI, D1, OR D10 drivers. 120V OR 277V only. Not available with 347V. 5-1/2" minimum plenum depth required. |
| NPP16DER | Not available with CP, QDS, ELR, E10WCPR, DALI, D1, OR D10 drivers. 120V OR 277V only. Not available with 347V. Will require an emergency hot feed and normal hot feed. 5-1/2" |
| | minimum plenum depth required. |
| NLTAIR2 | Not available with CP, QDS, DALI, D1, OR D10 drivers. Not recommended for metal ceiling installations. 5-1/2" minimum plenum depth required. |
| NLTAIRER2 | Not available with CP, QDS, ELR, E10WCPR, DALI, D1, OR D10 drivers. Not available with 347V. Not recommended for metal ceiling installations. 5-1/2" minimum plenum depth required. |
| NLTAIREM2 | Not available with CP, QDS, ELR, E10WCPR, DALI, D1, OR D10 drivers. Not recommended for metal ceiling installations. 5-1/2" minimum plenum depth required. |
| CP | Not available with, QDS, EC1, EC6, ELR, E10WCPR, 347V, JOT, NPP16D, NPP16D ER, NLTAIR2, NLTAIRER2, NLTAIREM2, D1, OR D10 drivers. Not available with square trim. |
| T24 | IC rated, 90CRI,500-1000 lumens, & round trim only. |
| Goof Rinas | Not Available with CP. |



* All dimensions are inches (millimeters) unless otherwise noted.





| Aperture Size | Ceiling Cutout |
|---------------|-----------------------|
| 8 In | 8-3/4" |

ę \odot **____** 90 ١<u>ج</u> $\widehat{}$ æ ła. 8" New Construction Frame, 18" Conduit 8" New Construction Frame, QDS



🖊 LITHONIA LIGHTING*

DOWNLIGHTING: One Lithonia Way Conyers, GA 30012 Phone: 1-800-705-SERV (7378) www.lithonia.com

LBR8



* All dimensions are inches (millimeters) unless otherwise noted.



🚺 LITHONIA LIGHTING



* All dimensions are inches (millimeters) unless otherwise noted.





LBR8 SWW1 ALOx MVOLT UGZ CP



🚺 LITHONIA LIGHTING°

DOWNLIGHTING: One Lithonia Way Conyers, GA 30012 Phone: 1-800-705-SERV (7378) www.lithonia.com



* All dimensions are inches (millimeters) unless otherwise noted.

LBR8 ALOx SWW1 xx xxx 347 UGZ



LBRx nLIGHT



🚺 LITHONIA LIGHTING



PHOTOMETRY

| Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30″ Above Floor for |
|---------------------------|--------------------------|-------------|-----------------------------------|-----------------------------------------|
| | | | | a Single Luminaire |

LBR8 SWW1 ALO2 AR LSS MWD MVOLT UGZ, Input Watts: 18.1, Delivered Lumens: 1883, LPW: 104.0, S/MH: 1.05, Test No: 20-518-04

| 90° 80° | 200 | 90° | Summary | Zonar L | umen 3 | anninai y | | | 0 | oemo | Jenta | 5 01 0 | unza | uon | | | 00 | | gn | (C | d/sq.m) |
|------------|-------------------|-----|-----------|------------|--------|------------|----|------|-----|------|-------|--------|------|------|-----|------|--------------------|---------------|------------------|-----|-----------|
| 70 | 400 | 70° | | | | | ρf | | | | | 20% | | | | | Mounting Height | Initial FC | Beam Diameter | | |
| 60° | 600 | 60° | 08 | 7 | 1 | 0/ Eistern | ρς | 500/ | 80% | 400/ | 500/ | 70% | 400/ | 500/ | 50% | 400/ | | Center | | | Average |
| 50 | 800 | 50° | 0 | Zone | Lumens | % Fixture | ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | | веат | | | Luminance |
| | 1000 | Xĩ | 0° 1,799 | 0° - 30° | 1,416 | 75% | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 6.0 | 50.0 | 7.3 | 0° | 68,479 |
| 400 | 1000 | | 5° 1,874 | 0° - 40° | 1,812 | 96% | 1 | 111 | 109 | 106 | 109 | 107 | 105 | 105 | 103 | 101 | 8.0 | 28.1 | 9.7 | 45° | 2,703 |
| 40 | 1200 | 40 | 15° 2,032 | 0° - 60° | 1,878 | 100% | 2 | 104 | 100 | 96 | 102 | 98 | 95 | 99 | 96 | 93 | 10.0 | 18.0 | 12.2 | 55° | 1,062 |
| | 1400 | X | 25° 1,476 | 0° - 90° | 1,883 | 100% | 3 | 97 | 92 | 88 | 95 | 91 | 87 | 93 | 89 | 86 | 12.0 | 12.5 | 14.6 | 65° | 288 |
| | 1600 | | 35° 644 | 90° - 180° | 0 | 0% | 4 | 91 | 85 | 81 | 89 | 85 | 81 | 87 | 83 | 80 | 14.0 | 9.2 | 17.0 | 75° | 191 |
| 30 | 1800 | 30° | 45° 50 | 0° - 180° | 1,883 | 100% | 5 | 85 | 79 | 75 | 84 | 79 | 75 | 82 | 78 | 74 | | | | 85° | 131 |
| | | | 55° 16 | | | | 6 | 80 | 74 | 70 | 79 | 74 | 70 | 78 | 73 | 69 | Beam Ang | gle: 62.6 | 5° | | |
| 1 | | Y | 65° 3 | | | | 7 | 75 | 69 | 65 | 75 | 69 | 65 | 73 | 68 | 65 | Field Ang | le: 79.4° | • | | |
| / | 2200 | | 75° 1 | | | | 8 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 61 | | | | | |
| | 2400 | | 85° 0 | | | | 9 | 67 | 61 | 57 | 67 | 61 | 57 | 66 | 61 | 57 | | | | | |
| 20° | 10° 0° 10° | 20° | 90° 0 | | | | 10 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

LBR8WW SWW1 ALO2 AR LSS WW, Input Watts: 18.7, Delivered Lumens: 1929, LPW: 103.2, S/MH: 0.88, Test No: 20-518-A2 ⁹⁰⁷ CP Summary Zonal Lumen Summary Coefficients of Utilization Luminance (cd/sq.m)

| 80° | 200 | 80° | | | | | | | ρf | | 000/ | | | 20% | | | 500/ | | | |
|-------|-------------------|----------|-----|-------|-------|------------|--------|-----------|----------|-----|------------|-----|-----|------------|-----|-----|------------|-----|-----|-------------------|
| 601 | 600 | 60° | | 0° | 90° | Zone | Lumens | % Fixture | pc pw | 50% | 80% 30% | 10% | 50% | 70% 30% | 10% | 50% | 50% 30% | 10% | 0.0 | Average Luminance |
| | 800 | | 0° | 1,869 | 1,869 | 0° - 30° | 1,369 | 71% | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 45° | 18,909 |
| °∪[× | 1000 | X 50° | 5° | 1,965 | 1,975 | 0° - 40° | 1,794 | 93% | 1 | 111 | 108 | 106 | 108 | 106 | 104 | 104 | 103 | 101 | 55° | 7,969 |
| 400 | 1200 | | 15° | 1,672 | 2,110 | 0° - 60° | 1,913 | 99% | 2 | 103 | 99 | 95 | 101 | 97 | 94 | 98 | 95 | 92 | 65° | 3,441 |
| 40 | 1400 | 40- | 25° | 1,210 | 1,595 | 0° - 90° | 1,929 | 100% | 3 | 96 | 91 | 87 | 94 | 90 | 86 | 92 | 88 | 85 | 75° | 1,511 |
| | 1600 | K. | 35° | 1,170 | 625 | 90° - 180° | 0 | 0% | 4 | 89 | 84 | 80 | 88 | 83 | 79 | 86 | 82 | 78 | 85° | 748 |
| | 1000 | | 45° | 328 | 50 | 0° - 180° | 1,929 | 100% | 5 | 84 | 78 | 74 | 83 | 77 | 73 | 81 | 76 | 73 | | |
| 30- | 1800 | 30° | 55° | 112 | 17 | | | | 6 | 78 | 72 | 68 | 78 | 72 | 68 | 76 | 71 | 67 | | |
| | 2000 | r 1 | 65° | 36 | 5 | | | | 7 | 74 | 68 | 63 | 73 | 67 | 63 | 72 | 67 | 63 | | |
| 17 | 2200 | 0°-180° | 75° | 10 | 3 | | | | 8 | 69 | 63 | 59 | 69 | 63 | 59 | 68 | 63 | 59 | | |
| 17- | 2400 | 008 0708 | 85° | 2 | 1 | | | | 9 | 65 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | | |
| 1- | | 90 -270 | 90° | 0 | 1 | | | | 10 | 62 | 56 | 52 | 61 | 56 | 52 | 61 | 56 | 52 | | |
| 20° | 10° 0° 10° | 20° | | | | | | | | | | | | | | | | | | |

LBR ROUND LUMEN TABLES

| LBR8 | 18 80CRI | | | | | | | | | | | LBR8WW 80CRI | | | | | | | | |
|---------------|----------|---------------------|------|---------------------|-----|---------------------|-----|---------------------|------|--|---------------|--------------|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|
| Luman | | 30K/80 | OCRI | 35K/80 | CRI | 40K/80 | CRI | 50K/80 | OCRI | | Luman | | 30K/80 | CRI | 35K/80 | CRI | 40K/80 | CRI | 50K/80 | CRI |
| Output | Wattage | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW | | Output | Wattage | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW |
| AL01 (500LM) | 6 | 551 | 96 | 564 | 97 | 577 | 99 | 595 | 101 | | AL01 (500LM) | 6 | 552 | 96 | 565 | 97 | 578 | 99 | 596 | 101 |
| AL01 (750LM) | 9 | 872 | 98 | 893 | 100 | 914 | 102 | 942 | 104 | | AL01 (750LM) | 9 | 874 | 98 | 894 | 100 | 915 | 102 | 943 | 104 |
| AL01 (1000LM) | 13 | 1225 | 95 | 1253 | 96 | 1283 | 98 | 1323 | 101 | | AL01 (1000LM) | 13 | 1227 | 95 | 1255 | 97 | 1285 | 98 | 1325 | 101 |
| AL02 (1000LM) | 13 | 1298 | 105 | 1328 | 106 | 1360 | 108 | 1402 | 111 | | AL02 (1000LM) | 13 | 1300 | 105 | 1330 | 106 | 1362 | 108 | 1404 | 111 |
| AL02 (1500LM) | 19 | 1895 | 101 | 1939 | 103 | 1985 | 105 | 2047 | 107 | | AL02 (1500LM) | 19 | 1898 | 101 | 1942 | 103 | 1988 | 105 | 2050 | 107 |
| AL02 (2000LM) | 25 | 2387 | 96 | 2442 | 98 | 2500 | 99 | 2578 | 102 | | AL02 (2000LM) | 25 | 2391 | 96 | 2446 | 98 | 2504 | 100 | 2582 | 102 |
| AL03 (2000LM) | 25 | 2456 | 99 | 2513 | 101 | 2572 | 103 | 2652 | 105 | | AL03 (2000LM) | 25 | 2460 | 99 | 2517 | 101 | 2576 | 103 | 2656 | 105 |
| AL03 (2500LM) | 32 | 2965 | 94 | 3034 | 96 | 3106 | 98 | 3202 | 100 | | AL03 (2500LM) | 32 | 2969 | 95 | 3038 | 96 | 3110 | 98 | 3207 | 100 |
| AL03 (3000LM) | 38 | 3367 | 90 | 3445 | 91 | 3527 | 93 | 3636 | 95 | | AL03 (3000LM) | 38 | 3372 | 90 | 3451 | 91 | 3532 | 93 | 3642 | 95 |
| | | | | | | | | | | | | | | | | | | | | |
| | 90CRI | | | | | | | | | | 90CRI | | | | | | | | | |

| Luman | | 30K/90 | OCRI | 35K/90 | OCRI | 40K/90 | CRI | 50K/90 | CRI |
|---------------|---------|---------------------|------|---------------------|------|---------------------|-----|---------------------|-----|
| Output | Wattage | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW |
| ALO1 (500LM) | 6 | 482 | 84 | 495 | 85 | 508 | 87 | 521 | 89 |
| AL01 (750LM) | 9 | 762 | 86 | 783 | 87 | 804 | 89 | 824 | 91 |
| AL01 (1000LM) | 13 | 1070 | 83 | 1099 | 85 | 1128 | 86 | 1157 | 88 |
| AL02 (1000LM) | 13 | 1135 | 91 | 1165 | 93 | 1196 | 95 | 1227 | 97 |
| AL02 (1500LM) | 19 | 1656 | 88 | 1701 | 90 | 1746 | 92 | 1791 | 94 |
| AL02 (2000LM) | 25 | 2086 | 84 | 2143 | 86 | 2199 | 87 | 2256 | 89 |
| AL03 (2000LM) | 25 | 2146 | 87 | 2205 | 89 | 2263 | 90 | 2321 | 92 |
| ALO3 (2500LM) | 32 | 2591 | 83 | 2661 | 84 | 2732 | 86 | 2802 | 87 |
| ALO3 (3000LM) | 38 | 2943 | 78 | 3023 | 80 | 3102 | 82 | 3182 | 83 |

| | | | 90CRI | | | | | | | | | |
|---------------|---------|---------------------|-------|---------------------|-----|---------------------|-----|---------------------|-----|--|--|--|
| lumon | | 30K/90 | CRI | 35K/90 | CRI | 40K/90 | CRI | 50K/90 | CRI | | | |
| Output | Wattage | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW | Delivered Lumens | LPW | | | |
| ALO1 (500LM) | 6 | 482 | 84 | 495 | 85 | 508 | 87 | 522 | 89 | | | |
| AL01 (750LM) | 9 | 764 | 86 | 784 | 88 | 805 | 89 | 826 | 91 | | | |
| AL01 (1000LM) | 13 | 1072 | 83 | 1101 | 85 | 1130 | 87 | 1159 | 88 | | | |
| ALO2 (1000LM) | 13 | 1136 | 92 | 1167 | 93 | 1198 | 95 | 1229 | 97 | | | |
| ALO2 (1500LM) | 19 | 1659 | 89 | 1704 | 90 | 1749 | 92 | 1794 | 94 | | | |
| ALO2 (2000LM) | 25 | 2089 | 84 | 2146 | 86 | 2203 | 88 | 2259 | 89 | | | |
| ALO3 (2000LM) | 25 | 2150 | 87 | 2208 | 89 | 2266 | 91 | 2325 | 92 | | | |
| ALO3 (2500LM) | 32 | 2595 | 83 | 2666 | 84 | 2736 | 86 | 2806 | 88 | | | |
| ALO3 (3000LM) | 38 | 2947 | 79 | 3027 | 80 | 3107 | 82 | 3187 | 83 | | | |
| | | | | | | | | | | | | |

🚺 LITHONIA LIGHTING

LBR8



| LUMEN OUTPUT MULTIPLIERS - CCT | | | | | | | | | | | | |
|--------------------------------|-----|------|------|--|--|--|--|--|--|--|--|--|
| 3000K 3500K 4000K 5000K | | | | | | | | | | | | |
| 0.98 | 1.0 | 1.01 | 1.03 | | | | | | | | | |

| LUMEN OUTPUT M | ULTIPLIERS - FINISH |
|----------------|---------------------|
| Specular (LS) | 1.00 |
| White (WR) | 1.03 |
| Black (BR) | 0.60 |

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

 $\mathsf{P}=\mathsf{Ouput}\ \mathsf{power}\ \mathsf{of}\ \mathsf{emergency}\ \mathsf{driver}.\ \mathsf{P}=\mathsf{10W}\ \mathsf{for}\ \mathsf{PS1055CP}$

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at <u>Designlight Consortium</u>.

| PLENUM DEPT | CEILI | NG | | | | |
|----------------------|-----------------|----|--------|------------------------|--------|------|
| Aperture Size/Output | Fixture Height* | IC | NON-IC | NON-IC MARKED SPACINGS | | |
| LBR8 500-1000 LM | 5.81 | X | | | Series | |
| LBR8 1000-2000 LM | 5.81 | | Х | | I RR8 | |
| LBR8 2000-3000 LM | 5.81 | | | 24 x 24 x 9 | I BR8 | ROUI |

| CEILI | NG CO | | | | | | | |
|--------|-------|----------|---------------------------------------------------------------------------|-------|------------------------|------------------------------------------|-------------------------|--------|
| Series | | Aperture | Aperture Flange Min ceiling Ceiling Max ce OD opening Thickness openin | | Max ceiling opening | Max Ceiling Opening with Goof Ring | Overall Goof Ring OD | |
| LBR8 | DOUND | 7.1/0" | 0.2/16" | 7.2/4 | 1/2" | 0.7/0 | 9-1/4" | 11 1/4 |
| LBR8 | KUUND | /-1/0 | 9-3/10 | /-3/4 | 1-1/2" | 8-//8 | 9-5/8" | 11-1/4 |

*Above unfinished 1/2" ceiling plane

🜔 LITHONIA LIGHTING*



DIMMER COMPATIBILITY

Not compatible with DALI or DMX dimmers. For specific compatible dimmers see below.

| LINE VOLTAGI | E DIMMING: | | | | |
|--------------|------------------------------------|----------------|-----------------|-----------------|------------------|
| Туре | Forward Phase | S (500-1000lm) | M (1000-2000lm) | L (2000-3000lm) | Comment |
| MLV | Lutron Glyder GLV-600 | YES | YES | YES | |
| INC | Leviton SureSlide 6633 | YES | YES | YES | |
| MLV | Lutron Diva DVLV-600P | YES | YES | YES | |
| MLV | Lutron Skylark SLV-600P | YES | YES | YES | |
| INC | Lutron RadioRA 2 10ND | YES | YES | YES | |
| MLV | Leviton SureSlide 6613-PLW | YES | YES | YES | |
| INC | Lutron Diva DVCL-153P | YES | YES | YES | |
| MLV | Leviton IPM06 | YES, 2x * | YES | YES | * min 2 fixtures |
| INC | Leviton IPI06 | YES, 2x * | YES | YES | * min 2 fixtures |
| MLV | Synergy ISD 600LV | YES, 2x * | YES | YES | * min 2 fixtures |
| INC | Synergy ISD 600 I | YES, 2x * | YES | YES | * min 2 fixtures |
| INC | Control4 C4-FPD 120 | YES | YES | YES | |
| | | | | | |
| Туре | Reverse Phase Dimmer Bank | S (500-1000lm) | M (1000-2000lm) | L (2000-3000lm) | |
| ELV | Lutron Nova T NTELV-600 | YES | YES | YES | |
| ELV | Lutron Diva DVELV 600P | YES | YES | YES | |
| ELV | Lutron Maestro MAELV 600 | YES | YES | YES | |
| ELV | Leviton Vizia VPE06-1LX | YES | YES | YES | |
| ELV | Leviton Illumatech IPE04 | YES | YES | YES | |
| ELV | Control4 C4-APD 120 REVERSE PHASE | YES | YES | YES | |
| | | | | | |
| Туре | Miscellaneous Dimmers | S (500-1000lm) | M (1000-2000lm) | L (2000-3000lm) | |
| PHA | Lutron RadioRA2 RRD-6NA | YES | YES | YES | |
| PHA | Lutron Maestro PRO LED+ RRD-PRO | YES | YES | YES | |
| | | | | | |
| Туре | Control Systems | S (500-1000lm) | M (1000-2000lm) | L (2000-3000lm) | |
| MLV | Lutron LP-RPM-4U | YES | YES | YES | |
| PHA | Lutron LP-RPM-4A | YES | YES | YES | |
| MLV | Lutron GRAPHIC EYE QSGRJ-3P | YES | YES | YES | |
| PHA | Lutron PA Power Module PHPM-PA-120 | YES | YES | YES | |
| ELV | Lutron nLight nSP5PCD ELV | YES | YES | YES | |

DIMMER COMPATIBILITY

Not compatible with DALI or DMX dimmers. For specific compatible dimmers see below.

| 0-10V DIMM | O-10V DIMMING: | | | | | | | | | | | | | |
|--------------|----------------|-----------------------------------------------------------------------------|--------------|----------------|-----------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | System Type | Description | P/N | S (500-1000lm) | M (1000-2000lm) | L (2000-3000lm) | | | | | | | | |
| Lutron | Other | 0-10V (sink or source) PowPak wireless dimming module | RMJ-5T-DV-B | YES | YES | YES | | | | | | | | |
| Wattstopper | Control System | Digital single relay room controller (0-10V) | LMRC-211 | YES | YES | YES | | | | | | | | |
| Crestron | Control System | DIN Rail 0-10V fluorescent dimmer, 4 feeds, 4 channels (Green Light System) | DIN-4DIMFLV4 | YES | YES | YES | | | | | | | | |
| Lutron | Other | Grafik Eye 0-10V adapter | GRX-TVI | YES | YES | YES | | | | | | | | |
| Leviton | Wall Box | Illumatech 0-10V | IP710-DLX | YES | YES | YES | | | | | | | | |
| Lutron | Control System | Mounted in the Homeworks QS panel - 0-10V dimmer (sink or source) | GRX-TVM2 | YES | YES | YES | | | | | | | | |
| Lutron | Wall Box | Nova 0-10V wallbox dimmer (use with PP-120-H line voltage relay) | NTFTV | YES | YES | YES | | | | | | | | |
| Lutron | Wall Box | Nova 0-10V wallbox dimmer (use with PP-120-H line voltage relay) | NTSTV-DV | YES | YES | YES | | | | | | | | |
| Lutron | Wall Box | Nova T | NFTV | YES | YES | YES | | | | | | | | |
| Leviton | Wall Box | Renior II 0-10V | AWSMG-7DW | YES | YES | YES | | | | | | | | |
| ACUITY | Wall Box | sensorswitch, wall switch sensor, occupancy controlled dimming | WSX D WH | YES | YES | YES | | | | | | | | |
| ACUITY | Control System | nLight | nPP16D | YES | YES | YES | | | | | | | | |
| ACUITY | Control System | nLight | nPS 80 EZ | YES | YES | YES | | | | | | | | |
| ACUITY | Control System | nLight Air | rPP20 D | YES | YES | YES | | | | | | | | |

🚺 LITHONIA LIGHTING

LBR8



| Project Name: | Туре: |
|---------------|-------|
| Part Number: | Date: |

REFINE PAR FAMILY

FEATURES

- Suitable to replace 50W, 75W, 120W halogen lamps
- Powered by TRUE CHROMA: delivers best in class color accuracy and consistency
- Proprietary designed optic maximizes output, efficacy, color fidelity, and visual comfort
- High CRI and R values (R9 85, R13 95) deliver richer reds and healthier skin tones
- Smooth dimming with existing dimmers*
- Compact size 1:1 halogen form factor
- Spot, Narrow, Flood beam angles
- Suitable for damp locations and totally enclosed fixtures
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Rated Lifetime (L70): 50,000hrs
- 5 year limited warranty**



SPECIFICATIONS

| Product | Model | Equiv. | Wattage | CCT | Lumens | Efficacy | Input Voltage | Beam Angle | CBCP | CRI | Dim.* | Power Factor | Base | Fixture Rating | TRUE CHROMA | ES/JA8 /T20 |
|---------|------------------------|--------|---------|-------|--------|----------|------------------|---------------|--------|-----|-------|-----------------|------|-------------------|----------------|----------------|
| 34890 | 6.5PAR20DIM/927SP15 | 50W | 6.5 | 2700K | 520 | 80 | 120V | 15° | 5,000 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34891 | 6.5PAR20DIM/927NF25 | 50W | 6.5 | 2700K | 560 | 86 | 120V | 25° | 1,800 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34892 | 6.5PAR20DIM/927FL40 | 50W | 6.5 | 2700K | 560 | 86 | 120V | 40° | 1,100 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34893 | 6.5PAR20DIM/930SP15 | 50W | 6.5 | 3000K | 550 | 85 | 120V | 15° | 5,300 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34894 | 6.5PAR20DIM/930NF25 | 50W | 6.5 | 3000K | 580 | 89 | 120V | 25° | 1,900 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34895 | 6.5PAR20DIM/930FL40 | 50W | 6.5 | 3000K | 580 | 89 | 120V | 40° | 1,200 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34896 | 6.5PAR20DIM/940FL40 | 50W | 6.5 | 4000K | 600 | 92 | 120V | 40° | 1,300 | 95 | Yes | 0.9 | E26 | Enclosed | NO | 1/1/1 |
| 34897 | 6.5PAR20DIM/930FL40/B | 50W | 6.5 | 3000K | 580 | 89 | 120V | 40° | 1,200 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34898 | 11PAR30DIM/927SP15 | 75W | 11 | 2700K | 950 | 86 | 120V | 15° | 10,000 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34899 | 11PAR30DIM/927NF25 | 75W | 11 | 2700K | 950 | 86 | 120V | 25° | 4,500 | 95 | Yes | 0.9 | E26 | Enclosed | C | 1/1/1 |
| 34900 | 11PAR30DIM/927FL40 | 75W | 11 | 2700K | 950 | 86 | 120V | 40° | 1,700 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34901 | 11PAR30DIM/930SP15 | 75W | 11 | 3000K | 990 | 90 | 120V | 15° | 10,600 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34902 | 11PAR30DIM/930NF25 | 75W | 11 | 3000K | 990 | 90 | 120V | 25° | 4,700 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34903 | 11PAR30DIM/930FL40 | 75W | 11 | 3000K | 990 | 90 | 120V | 40° | 1,750 | 95 | Yes | 0.9 | E26 | Enclosed | C | 1/1/1 |
| 34904 | 11PAR30DIM/940FL40 | 75W | 11 | 4000K | 1,030 | 94 | 120V | 40° | 1,850 | 95 | Yes | 0.9 | E26 | Enclosed | NO | 1/1/1 |
| 34905 | 11PAR30DIM/930FL40/B | 75W | 11 | 3000K | 990 | 90 | 120V | 40° | 1,750 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34906 | 11PAR30SNDIM/927SP15 | 75W | 11 | 2700K | 950 | 86 | 120V | 15° | 10,000 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34907 | 11PAR30SNDIM/927NF25 | 75W | 11 | 2700K | 950 | 86 | 120V | 25° | 4,500 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34908 | 11PAR30SNDIM/927FL40 | 75W | 11 | 2700K | 950 | 86 | 120V | 40° | 1,700 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34909 | 11PAR30SNDIM/930SP15 | 75W | 11 | 3000K | 990 | 90 | 120V | 15° | 10,600 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34910 | 11PAR30SNDIM/930NF25 | 75W | 11 | 3000K | 990 | 90 | 120V | 25° | 4,700 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 35939 | 11PAR30SNDIM/930NF25/B | 75W | 11 | 3000K | 990 | 90 | 120V | 25° | 4,700 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34911 | 11PAR30SNDIM/930FL40 | 75W | 11 | 3000K | 990 | 90 | 120V | 40° | 1,750 | 95 | Yes | 0.9 | E26 | Enclosed | C | 1/1/1 |
| 34912 | 11PAR30SNDIM/940FL40 | 75W | 11 | 4000K | 1,030 | 94 | 120V | 40° | 1,850 | 95 | Yes | 0.9 | E26 | Enclosed | NO | 1/1/1 |
| 34913 | 11PAR30SNDIM/930FL40/B | 75W | 11 | 3000K | 990 | 90 | 120V | 40° | 1,750 | 95 | Yes | 0.9 | E26 | Enclosed | C | 1/1/1 |



An ILLUMUS Brand







REFINE PAR FAMILY

| SPECIFICATIONS | | | | | | | | | | | | | | | | |
|----------------|---------------------------|--------|----------------|-------|--------|-------------------|------------------|---------------|--------------|-----|-------|-----------------|------|-------------------|----------------|-------------------|
| Product | Model | Equiv. | Wattage (W) | ССТ | Lumens | Efficacy (LPW) | Input Voltage | Beam Angle | CBCP (cd) | CRI | Dim.* | Power Factor | Base | Fixture Rating | TRUE CHROMA | ES/JA8 /T20 |
| 34916 | 15.5PAR38DIM/927SP15 | 120W | 15.5 | 2700K | 1,320 | 85 | 120V | 15° | 14,000 | 95 | Yes | 0.9 | E26 | Enclosed | C | 1/1/1 |
| 34917 | 15.5PAR38DIM/927NF25 | 120W | 15.5 | 2700K | 1,320 | 85 | 120V | 25° | 6,750 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34918 | 15.5PAR38DIM/927FL40 | 120W | 15.5 | 2700K | 1,320 | 85 | 120V | 40° | 2,800 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34919 | 15.5PAR38DIM/930SP15 | 120W | 15.5 | 3000K | 1,370 | 88 | 120V | 15° | 14,700 | 95 | Yes | 0.9 | E26 | Enclosed | C | $\sqrt{\sqrt{3}}$ |
| 34920 | 15.5PAR38DIM/930NF25 | 120W | 15.5 | 3000K | 1,370 | 88 | 120V | 25° | 7,000 | 95 | Yes | 0.9 | E26 | Enclosed | C | $\sqrt{\sqrt{3}}$ |
| 34921 | 15.5PAR38DIM/930FL40 | 120W | 15.5 | 3000K | 1,370 | 88 | 120V | 40° | 2,900 | 95 | Yes | 0.9 | E26 | Enclosed | C | $\sqrt{\sqrt{3}}$ |
| 34922 | 15.5PAR38DIM/940FL40 | 120W | 15.5 | 4000K | 1,420 | 92 | 120V | 40° | 3,000 | 95 | Yes | 0.9 | E26 | Enclosed | NO | 1/1/1 |
| 34923 | 15.5PAR38DIM/930NF25/B | 120W | 15.5 | 3000K | 1,370 | 88 | 120V | 25° | 7,000 | 95 | Yes | 0.9 | E26 | Enclosed | С | 1/1/1 |
| 34924 | 15.5PAR38DIM/930FL40/B | 120W | 15.5 | 3000K | 1,370 | 88 | 120V | 40° | 2,900 | 95 | Yes | 0.9 | E26 | Enclosed | C | $\sqrt{\sqrt{3}}$ |
| 34925 | 15.5PAR38DIM/930FL40/GU24 | 120W | 15.5 | 3000K | 1,370 | 88 | 120V | 40° | 2,900 | 95 | Yes | 0.9 | GU24 | Enclosed | C | $\sqrt{\sqrt{3}}$ |
| 34914 | 11PAR30/930FL40/277V | 75W | 11 | 3000K | 990 | 90 | 120-277V | 40° | 1,750 | 95 | No | 0.9 | E26 | Enclosed | С | √ / N.A. / √ |
| 34915 | 11PAR30/940FL40/277V | 75W | 11 | 4000K | 1,030 | 94 | 120-277V | 40° | 1,850 | 95 | No | 0.9 | E26 | Enclosed | NO | √ / N.A. / √ |
| 34926 | 15.5PAR38/930FL40/277V | 120W | 15.5 | 3000K | 1,370 | 88 | 120-277V | 40° | 2,900 | 95 | No | 0.9 | E26 | Enclosed | C | √ / N.A. / √ |
| 34927 | 15.5PAR38/940FL40/277V | 120W | 15.5 | 4000K | 1,420 | 92 | 120-277V | 40° | 3,000 | 95 | No | 0.9 | E26 | Enclosed | NO | √ / N.A. / √ |

*This lamp might not be compatible with all dimmers. Please visit www.greencreative.com for compatibility information. **Please visit www.greencreative.com for Limited Warranty terms.

DIMENSIONS & WEIGHT



| Model | Base | MOL | Dia. | Weight |
|-----------------------|------|--------|--------|--------|
| 6.5PAR20DIM/927SP15 | E26 | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/927NF25 | E26 | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/927FL40 | E26 | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930SP15 | E26 | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930NF25 | E26 | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930FL40 | E26 | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/940FL40 | E26 | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930FL40/B | E26 | 3-1/4" | 2-1/2" | 0.18lb |

An ILLUMUS Brand





REFINE PAR FAMILY

DIMENSIONS & WEIGHT



| Model | Base | MOL | Dia. | Weight |
|----------------------|------|---------|----------|--------|
| 11PAR30DIM/927SP15 | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/927NF25 | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/927FL40 | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930SP15 | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930NF25 | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930FL40 | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/940FL40 | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930FL40/B | E26 | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30/930FL40/277V | E26 | 4-7/16" | 3-11/16" | 0.33lb |
| 11PAR30/940FL40/277V | E26 | 4-7/16" | 3-11/16" | 0.33lb |



| Model | Base | MOL | Dia. | Weight |
|------------------------|------|--------|----------|--------|
| 11PAR30SNDIM/927SP15 | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/927NF25 | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/927FL40 | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/930SP15 | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/930NF25 | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/930NF25/B | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/930FL40 | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/940FL40 | E26 | 3-1/4" | 3-11/16" | 0.3lb |
| 11PAR30SNDIM/930FL40/B | E26 | 3-1/4" | 3-11/16" | 0.3lb |



| Model | Base | MOL | Dia. | Weight |
|---------------------------|------|--------|--------|--------|
| 15.5PAR38DIM/927SP15 | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/927NF25 | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/927FL40 | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930SP15 | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930NF25 | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930FL40 | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/940FL40 | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930NF25/B | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930FL40/B | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930FL40/GU24 | GU24 | 5-1/8" | 4-5/8" | 0.54lb |
| 15.5PAR38/930FL40/277V | E26 | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38/940FL40/277V | E26 | 5-1/8" | 4-5/8" | 0.52lb |

www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - 🕈 / GREENCREATIVELED 🍞 / GClightingLED 🚺 / GREEN-CREATIVE

An ILLUMUS Brand




REFINE PAR FAMILY

ILLUMINANCE & CANDELA DISTRIBUTION

6.5PAR20DIM/930SP15



90'

60

Degree

0

5

15

25

45

35



Candela

5300

3488

564

170

74

40



6.5PAR20DIM/930NF25

3'

90

60

2.7 53 4.0 23 5.3 13 6.7 8

Diamete

1.3

Footcandle

211



6.5PAR20DIM/930FL40



90' Candela Degree 1200 0 5 1100 60 725 15 25 365 35 174 45 76

11PAR30DIM/930SP15

30



0.8 1,178 1.6 2.4 3.2 3.9

Degree

0

5

15

25

45

35





Candela

10,600

7.008

958

174

102

68

Footcandle

11PAR30DIM/930NF25

30



2.7 4.0 5.3 6.7

Diameter

1.3

Degree

0

5

15

25

45

35

Footcandle

522

131

58

33

21

Candela

4,700

3.841

1,157

213

81

56

90 60

11PAR30DIM/930FL40



an

Diameter Footcandles 2.2 194 4.4 49 6.6 22 8.7 12 10.9 8

60 30



www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - 🕈 / GREENCREATIVELED 💓 / GClightingLED 🛅 / GREEN-CREATIVE

An ILLUMUS Brand





REFINE PAR FAMILY

ILLUMINANCE & CANDELA DISTRIBUTION

Footcandle

11PAR30SNDIM/930SP15





0

5

15

25

35

45

68

Footcandle

1,633

408

181

102

65

14,700

9.095

1,435

256

93

58



11PAR30SNDIM/930NF25



0

5

15

25

35

45

1.3

2.7

4.0

5.3

3'

11PAR30SNDIM/930FL40



90

15.5PAR38DIM/930FL40

3'

6'

9'

12'

15

90 Degree 30









15.5PAR38DIM/930SP15



3.9 Candela Degree







6.7 90

60

Degree Candela 7,000 0 5 6.095 1,658 15 25 408 35 137 45 64

Footcandle

778

194

86

49

31





Diameter

2.2

4.4

6.6

87

10.9

35

45

Footcandles

322

81

36

20

13

300

78

For other CCT use the following multiplier: 2700K .98, 4000K 1.02





REFINE PAR FAMILY

COLOR ACCURACY & SPECTRAL POWER DISTRIBUTION



Rf: TM-30 metric measuring color fidelity (whether colors are similar to those under natural light). Rf is a more accurate version of the CRI Ra. Rf is 100 for natural light. Rg: TM-30 metric measuring color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.



| Project Name: | Туре: |
|---------------|-------|
| Part Number: | Date: |



COMPACT HID REPLACEMENT BULB

FEATURES

- Integral driver suitable for 120-277V
- Integral thermal sensor reduces power to the lamp in the event ambient temperature exceeds specified limitations
- E26 versions are smooth dimming with existing installations*
- EX39 versions are step-dimming using SelectDrive technology
- A21 replaces up to 125W Inc.
- A23 replaces up to 200W Inc.
- PS30 replaces up to 100-175W HID, E26 version replaces up to 300W Inc.
- Suitable for damp locations and totally enclosed fixtures**
- Lamp ambient temperature: -4°F to 140°F (-20°C to 60°C)
- Fixture operating temperature: -4°F to 113°F (-20°C to 45°C)
- Rated lifetime (L70): 50,000hrs
- 5 year limited warranty***
- Supplied with safety cable to provide secondary support for A23 and PS30
- 4kV integral surge protector
- For installation in Post Top, Area light, or other fixtures exposed to high surge conditions, the use of our 10KV surge protector
 97718-10SURGE/277V is recommended.



FOCUS FEATURE

EX39 version has integrated side switch for step-dimming



3 Level power output

Power select switch allows power to be tailored to application requirements and can be adjusted from high to low.

| | eciperive | | | |
|--------------------------|-----------|-----------|-------|-----|
| | ССТ | Wattage | Lumen | LPW |
| | | 40%-13.6W | 1,800 | 132 |
| | 3000K | 60%-20.4W | 2,700 | 132 |
| | | 100%-34W | 4,500 | 132 |
| 34HID/8vv/277\//EX39/SD | 4000K | 40%-13.6W | 2,000 | 147 |
| 041110/000/21110/2003/00 | | 60%-20.4W | 3,000 | 147 |
| | | 100%-34W | 5,000 | 147 |
| | | 40%-13.6W | 2,000 | 147 |
| | 5000K | 60%-20.4W | 3,000 | 147 |
| | | 100%-34W | 5,000 | 147 |

| | | - | | |
|------------------------|-------|----------|-------|-----|
| | CCT | Wattage | Lumen | LPW |
| | | 40%-9W | 1,250 | 139 |
| | 3000K | 60%-14W | 1,850 | 132 |
| | | 100%-24W | 3,100 | 129 |
| | 3500K | 40%-9W | 1,250 | 139 |
| | | 60%-14W | 1,850 | 132 |
| 24HID/8xx/277V/EX39/SD | | 100%-24W | 3,100 | 129 |
| | | 40%-9W | 1,300 | 144 |
| | 4000K | 60%-14W | 1,900 | 136 |
| | | 100%-24W | 3,200 | 133 |
| | | 40%-9W | 1,300 | 144 |
| | 5000K | 60%-14W | 1,900 | 136 |
| | | 100%-24W | 3,200 | 133 |

Select Drive

Where xxx means 824-965 which indicates CRI and color temperature





COMPACT HID REPLACEMENT BULB

| SPE | CIFICATIONS | | | | | | | | | | | | | |
|---------|------------------------|--------------|------------------|---------|--------|-------|-----|-------------------|---------------|-------|-----------------|------|-------------------|----------|
| Product | Model | Equiv. | Input Voltage | Wattage | Lumens | ССТ | CRI | Efficacy (LPW) | Beam Angle | Dim.* | Power Factor | THD | Fixture Rating | DLC / ES |
| 36165 | 17A21/830/277V/DIM | 125W Inc. | 120-277V | 17 | 2,000 | 3000K | 82 | 118 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36166 | 17A21/835/277V/DIM | 125W Inc. | 120-277V | 17 | 2,000 | 3500K | 82 | 118 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36167 | 17A21/840/277V/DIM | 125W Inc. | 120-277V | 17 | 2,100 | 4000K | 82 | 124 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36168 | 17A21/850/277V/DIM | 125W Inc. | 120-277V | 17 | 2,100 | 5000K | 82 | 124 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / √ |
| 36169 | 24HID/830/277V/E26/DIM | 200W Inc. | 120-277V | 24 | 3,100 | 3000K | 82 | 129 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36214 | 24HID/835/277V/E26/DIM | 200W Inc. | 120-277V | 24 | 3,100 | 3500K | 82 | 129 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36170 | 24HID/840/277V/E26/DIM | 200W Inc. | 120-277V | 24 | 3,200 | 4000K | 82 | 133 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36171 | 24HID/850/277V/E26/DIM | 200W Inc. | 120-277V | 24 | 3,200 | 5000K | 82 | 133 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36158 | 24HID/830/277V/EX39/SD | 70-100W HID | 120-277V | 24 | 3,100 | 3000K | 82 | 139 | 230° | No | 0.9 | <20% | Enclosed | √ / N.A. |
| 36159 | 24HID/835/277V/EX39/SD | 70-100W HID | 120-277V | 24 | 3,100 | 3500K | 82 | 139 | 230° | No | 0.9 | <20% | Enclosed | √ / N.A. |
| 36160 | 24HID/840/277V/EX39/SD | 70-100W HID | 120-277V | 24 | 3,200 | 4000K | 82 | 144 | 230° | No | 0.9 | <20% | Enclosed | √ / N.A. |
| 36161 | 24HID/850/277V/EX39/SD | 70-100W HID | 120-277V | 24 | 3,200 | 5000K | 82 | 144 | 230° | No | 0.9 | <20% | Enclosed | √ / N.A. |
| 36173 | 34HID/840/277V/E26/DIM | 300W Inc. | 120-277V | 34 | 5,000 | 4000K | 82 | 147 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36174 | 34HID/850/277V/E26/DIM | 300W Inc. | 120-277V | 34 | 5,000 | 5000K | 82 | 147 | 230° | Yes | 0.9 | <20% | Enclosed | N.A. / 🗸 |
| 36163 | 34HID/840/277V/EX39/SD | 100-175W HID | 120-277V | 34 | 5,000 | 4000K | 82 | 147 | 230° | No | 0.9 | <20% | Enclosed | √ / N.A. |
| 36164 | 34HID/850/277V/EX39/SD | 100-175W HID | 120-277V | 34 | 5,000 | 5000K | 82 | 147 | 230° | No | 0.9 | <20% | Enclosed | √ / N.A. |

*This lamp is available for dimming with 120V line voltage only and might not be compatible with all dimmers. Please visit www.greencreative.com for compatibility information. ***Please visit www.greencreative.com for Limited Warranty terms.

DIMENSION & WEIGHT



| Model | Base | Mol. | Dia. | Weight |
|--------------------|------|--------|--------|--------|
| 17A21/xxx/277V/DIM | E26 | 5-1/4" | 2-5/8" | 2-5/8" |

| Model | Base | Mol. | Dia. | Weight |
|------------------------|------|----------|---------|---------|
| 24HID/xxx/277V/E26/DIM | E26 | 6-5/8" | 3-5/16" | 0.82 lb |
| 24HID/xxx/277V/EX39/SD | EX39 | 6-11/16" | 3-5/16" | 0.87 lb |

| Model | Base | Mol. | Dia. | Weight |
|------------------------|------|--------|--------|---------|
| 34HID/xxx/277V/E26/DIM | E26 | 8-1/8" | 3-3/4" | 1.42 lb |
| 34HID/xxx/277V/EX39/SD | EX39 | 8-1/8" | 3-3/4" | 1.49 lb |

Where xxx means 824-965 which indicates CRI and color temperature

EX3





11''

1

COMPACT HID REPLACEMENT BULB

| ORDERING INFORMATION | | | | | | | | | |
|------------------------|----------|------------------------------|-------------|-----------------|------------------------------|-------------|--|--|--|
| Model Number | | Master Carton | | Shipping Carton | | | | | |
| | Case Qty | Case Dimensions (LxWxH) | Case Weight | Case Qty | Case Dimensions (LxWxH) | Case Weight | | | |
| 17A21/xxx/277V/DIM | 6PCS | 8-15/16"x 6-1/4" x 6-1/2" | 3.5 lb | 24PCS | 12-7/8" x 9-5/16" x 13-3/4" | 15 lb | | | |
| 24HID/xxx/277V/E26/DIM | 6PCS | 11-1/4" x 7-9/16" x 7-13/16" | 6.4 lb | 24PCS | 15-1/2" x 11-9/16" x 8-7/16" | 13.4 lb | | | |
| 24HID/xxx/277V/EX39/SD | 6PCS | 11-1/8" x 7-1/2" x 7-7/8" | 7.5lb | 24PCS | 15-1/2" x 11-3/4" x 8-7/16" | 15.2lb | | | |
| 34HID/xxx/277V/E26/DIM | N.A. | N.A. | N.A. | 12PCS | 16-9/16"x 12-3/8"x 9-9/16" | 21.2 lb | | | |
| 34HID/xxx/277V/EX39/SD | N.A. | N.A. | N.A. | 12PCS | 16-9/16" x 12-3/8"x 9-9/16" | 22.1 lb | | | |

Where xxx means 824-965 which indicates CRI and color temperature

(

Maximum Lamps in Luminaire

Post top installation

**MINIMUM COMPARTMENT DIMENSIONS (FOR ENCLOSED FIXTURES)

| Low bay installation | N | Model Number | | 24HID/xxx/277V/EX39/SD | | | 34HID/xxx/277V/EX39/SD | |
|-----------------------|----------------------------|--------------|------------------------|------------------------|--------------------|------------------------|------------------------|------------------------|
| | Lamp Compartment Diameter | | 6" | | | 8'' | | |
| | Dimensi | ons | Height | | 8-1/2" | | | 11'' |
| | Maximum Lamps in Luminaire | | | 1 | | | | 1 |
| Post top installation | Model Number | | 24HID/xxx/277V/EX39/SD | | | 34HID/xxx/277V/EX39/SD | | |
| Å | Lamp Compartment Diameter | | | 3-9/16" | | | 8" | |
| | Dimensions Heig | | Height | 7-7/8" | | | 11" | |
| | Maximum Lamps in Luminaire | | | 1 | | | 1 | |
| | | | | | | | | |
| | | | Model Numbe | er | 17A21/xxx/277V/DIM | 24HID/x | xx/277V/E26/DIM | 34HID/xxx/277V/E26/DIM |
| | ſ Â l | | | | 6" | 6" | | 8'' |
| | Ŭ | Lamp | mp Compartment | Height | 8-1/2" | | 8-1/2" | 11'' |
| Dimensio | | Dimensions | Diameter | 3-9/16" | | 3-9/16" | 8'' | |

**Installing lamp in a fixture that does not have the minimum compartment dimensions will void the warranty and could cause product failures.

| SUPPLIED ACCESSORY | | | | | | | | |
|--------------------|---------|------------|--|--|--|--|--|--|
| Description | Picture | Dimensions | | | | | | |
| Safety Cable | | 22-13/16" | | | | | | |

7-7/8"

1

7-7/8"

1

Height





COMPACT HID REPLACEMENT BULB

| OPTION | OPTIONAL ACCESSORY ORDERING INFORMATION | | | | | | | | | |
|---------|-----------------------------------------|----------------------------------------------------------------------------------------------------------|---------|----------------------------|--|--|--|--|--|--|
| Product | Model | Description | Picture | Dimensions | | | | | | |
| 97718 | 10SURGE/277V | 10 kV Surge Protector (For use in outdoor and other applications subject to high surge conditions) | | ▶1-3/8" -+ 2-1/2" | | | | | | |
| 16325 | E26 EXTENDER | E26 Lamp Extender Adds 1-5/16" to Lamp Height | | r=1-7/16° → 2-3/8° ↓ | | | | | | |
| 35050 | E39 EXTENDER | EX39 Lamp Extender Adds 1-11/16" to Lamp Height | | | | | | | | |

| CERTIFICATION INFORMATION | | | | | | | | |
|---------------------------|------------------------|----------|---------|--|--|--|--|--|
| Product | Model | DLC ID# | ES ID# | | | | | |
| 36158 | 24HID/830/277V/EX39/SD | PLEQ5F7K | N.A. | | | | | |
| 36159 | 24HID/835/277V/EX39/SD | PW8VV6BP | N.A. | | | | | |
| 36160 | 24HID/840/277V/EX39/SD | PRDUFT1V | N.A. | | | | | |
| 36161 | 24HID/850/277V/EX39/SD | PLEQ5F7K | N.A. | | | | | |
| 36162 | 34HID/830/277V/EX39/SD | PSE1QG12 | N.A. | | | | | |
| 36163 | 34HID/840/277V/EX39/SD | P7TYZ0PO | N.A. | | | | | |
| 36164 | 34HID/850/277V/EX39/SD | PYW8K0EW | N.A. | | | | | |
| 36165 | 17A21/830/277V/DIM | N.A. | 2390212 | | | | | |
| 36166 | 17A21/835/277V/DIM | N.A. | 2390213 | | | | | |
| 36167 | 17A21/840/277V/DIM | N.A. | 2390214 | | | | | |
| 36168 | 17A21/850/277V/DIM | N.A. | 2390215 | | | | | |
| 36169 | 24HID/830/277V/E26/DIM | N.A. | 2390216 | | | | | |
| 36214 | 24HID/835/277V/E26/DIM | N.A. | 2390217 | | | | | |
| 36170 | 24HID/840/277V/E26/DIM | N.A. | 2390218 | | | | | |
| 36171 | 24HID/850/277V/E26/DIM | N.A. | 2390219 | | | | | |
| 36173 | 34HID/840/277V/E26/DIM | N.A. | 2390221 | | | | | |
| 36174 | 34HID/850/277V/E26/DIM | N.A. | 2390222 | | | | | |

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.



| Project Name: | Туре: |
|---------------|-------|
| Part Number: | Date: |



BYPASS AND HYBRID BYPASS PLS

FEATURES

- Built-in universal driver Bypass installation operates directly on 120 277V line voltage
- Hybrid Bypass versions can also operate directly on most magnetic ballasts*
- Bypass versions replace 7W-13W CFL lamps with 2G7 & 2GX7 bases
- Hybrid Bypass versions replace 7W-13W CFL lamps with G23 & GX23 (2-pin) bases
- Exceptional efficacy up to 113 LPW
- Suitable for damp locations
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Rated lifetime (L70): 50,000hrs
- 5 year limited warranty**/ 10 year available (see EXTENDED WARRANTIES table for information)





| SPE | SPECIFICATIONS | | | | | | | | | | | | | |
|---------|------------------------|--------|------------------|---------|--------|-------|-----|-------------------|-----------------|-------|---------------|-------------------------|-------------------|--|
| Product | Model | Equiv. | Input Voltage | Wattage | Lumens | CCT | CRI | Efficacy (LPW) | Power Factor | THD | Beam Angle | Base Rotatable Angle | Fixture Rating | |
| 36631 | 3.5PLS/835/BYP/2G7/R | 7-9W | 120-277V | 3.5 | 350 | 3500K | 82 | 100 | 0.9 | <20% | 120° | 180° | Enclosed | |
| 36637 | 5.5PLS/835/BYP/2GX7/R | 13W | 120-277V | 3.5 | 600 | 3500K | 82 | 109 | 0.9 | <20% | 110° | 180° | Enclosed | |
| 36627 | 3.5PLS/827/HYB/G23/R | 7-9W | 120-277V | 3.5 | 325 | 2700K | 82 | 93 | 0.9 | <20% | 120° | 170° | Enclosed | |
| 36628 | 3.5PLS/830/HYB/G23/R | 7-9W | 120-277V | 3.5 | 340 | 3000K | 82 | 97 | 0.9 | <20% | 120° | 170° | Enclosed | |
| 36629 | 3.5PLS/835/HYB/G23/R | 7-9W | 120-277V | 3.5 | 350 | 3500K | 82 | 100 | 0.9 | <20% | 120° | 170° | Enclosed | |
| 36630 | 3.5PLS/840/HYB/G23/R | 7-9W | 120-277V | 3.5 | 370 | 4000K | 82 | 106 | 0.9 | < 20% | 120° | 170° | Enclosed | |
| 36632 | 5.5PLS/827/HYB/GX23/R | 13W | 120-277V | 5.5 | 520 | 2700K | 82 | 95 | 0.9 | <20% | 110° | 170° | Enclosed | |
| 36633 | 5.5PLS/830/HYB/GX23/R | 13W | 120-277V | 5.5 | 550 | 3000K | 82 | 100 | 0.9 | <20% | 110° | 170° | Enclosed | |
| 36634 | 5.5PLS/835/HYB/GX23/R | 13W | 120-277V | 5.5 | 600 | 3500K | 82 | 109 | 0.9 | <20% | 110° | 170° | Enclosed | |
| 36635 | 5.5PLS/840/HYB/GX23/R | 13W | 120-277V | 5.5 | 620 | 4000K | 82 | 113 | 0.9 | <20% | 110° | 170° | Enclosed | |
| 36644 | 5.5PLSH/827/HYB/GX23/R | 13W | 120-277V | 5.5 | 570 | 2700K | 82 | 104 | 0.9 | <20% | 110° | 310° | Non-Enclosed | |
| 36645 | 5.5PLSH/830/HYB/GX23/R | 13W | 120-277V | 5.5 | 580 | 3000K | 82 | 105 | 0.9 | <20% | 110° | 310° | Non-Enclosed | |
| 36646 | 5.5PLSH/835/HYB/GX23/R | 13W | 120-277V | 5.5 | 600 | 3500K | 82 | 109 | 0.9 | <20% | 110° | 310° | Non-Enclosed | |
| 36647 | 5.5PLSH/840/HYB/GX23/R | 13W | 120-277V | 5.5 | 620 | 4000K | 82 | 113 | 0.9 | <20% | 110° | 310° | Non-Enclosed | |
| 98403 | 5.5PLSV/827/HYB/GX23 | 13W | 120-277V | 5.5 | 570 | 2700K | 82 | 104 | 0.9 | <20% | 120° | 310° | Non-Enclosed | |
| 98404 | 5.5PLSV/830/HYB/GX23 | 13W | 120-277V | 5.5 | 600 | 3000K | 82 | 109 | 0.9 | <20% | 120° | 310° | Non-Enclosed | |
| 98405 | 5.5PLSV/835/HYB/GX23 | 13W | 120-277V | 5.5 | 600 | 3500K | 82 | 109 | 0.9 | <20% | 120° | 310° | Non-Enclosed | |
| 98406 | 5.5PLSV/840/HYB/GX23 | 13W | 120-277V | 5.5 | 620 | 4000K | 82 | 113 | 0.9 | <20% | 120° | 310° | Non-Enclosed | |

* Ballast Dependent. Please refer to www.greencreative.com for full ballast compatibility list. ** Please visit www.greencreative.com for Limited Warranty terms.

www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - 🛉 / GREENCREATIVELED 🎔 / GClightingLED 🚺 / GREEN-CREATIVE





BYPASS AND HYBRID BYPASS PLS

DIMENSION & WEIGHT



| Model | 3.5PLS/xxx/BYP/2G7/R | 5.5PLS/xxx/BYP/2GX7/R |
|-----------------|----------------------|-----------------------|
| Compatible base | 2G7 (4-pin) | 2GX7 (4-pin) |
| MOL | 4-3/4" | 6-9/16" |
| Dia | 1-7/16" | 1-7/16" |
| Weight | 0.06 lb | 0.06lb |

Where xxx means 824-965 which indicates CRI and color temperature



| Model | 3.5PLS/xxx/HYB/G23/R | 5.5PLS/xxx/HYB/GX23/R |
|-----------------|----------------------|-----------------------|
| Compatible base | G23 (2-pin) | GX23 (2-pin) |
| MOL | 5-5/16" | 7" |
| Dia | 1-1/4" | 1-1/4" |
| Weight | 0.08 lb | 0.08 lb |

Where xxx means 824-965 which indicates CRI and color temperature



| Model | 5.5PLSH/xxx/HYB/GX23/R | 5.5PLSV/xxx/HYB/GX23 |
|-----------------|------------------------|----------------------|
| Compatible base | GX23 (2-pin) | GX23 (2-pin) |
| MOL | 5-1/2" | 5-1/4" |
| Dia | 1-3/8" | 2-9/16" |
| Weight | 0.15 lb | 0.16lb |

Where xxx means 824-965 which indicates CRI and color temperature





BYPASS AND HYBRID BYPASS PLS

HYBrid Installation - DIRect (Magnetic Ballasts) or BYPass



BYPass Installation





ACCESSORY ORDERING INFORMATION

| Product | Model | Description | Pictures | Dimensions |
|---------|------------|-----------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 98003 | 23EMDRIVER | California Title 20 Compliant 23W Emergency LED Driver (Field Installation) | | 10-7/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2- |

OR

Note: 23EMDRIVER is working for 3.5PLS HYB and 5.5PLSV HYB only.

| EXTENDED WARRANTIES*** | |
|----------------------------|----------------------------------------------|
| Model | Description**** |
| 3.5PLS/BYP/10YEARWARRANTY | 10 Year warranty for 3.5PLS/8xx/BYP/2G7/yy |
| 5.5PLS/BYP/10YEARWARRANTY | 10 Year warranty for 5.5PLS/8xx/BYP/2GX7/yy |
| 3.5PLS/HYB/10YEARWARRANTY | 10 Year warranty for 3.5PLS/8xx/HYB/G23/yy |
| 5.5PLS/HYB/10YEARWARRANTY | 10 Year warranty for 5.5PLS/8xx/HYB/GX23/yy |
| 5.5PLSH/HYB/10YEARWARRANTY | 10 Year warranty for 5.5PLSH/8xx/HYB/GX23/yy |
| 5.5PLSV/HYB/10YEARWARRANTY | 10 Year warranty for 5.5PLSV/8xx/HYB/GX23/yy |

*** Warranty based on a maximum of 4,368 annual operating hours (per year for ten years) and exposure to a maximum fixture operating temperature of 80°F / 27°C **** xx – Refers to the CCT yy – Refers to model generations within the same nominal performance. Typically blank, 'R', or 'RC'

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.

www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - 🕈 / GREENCREATIVELED 💓 / GClightingLED 🛅 / GREEN-CREATIVE



| Project Name: | Туре: |
|---------------|-------|
| Part Number: | Date: |

Value Select A Lamp Family

FEATURES

- Suitable to replace 40W, 60W, 75W, 100W Incandescent
- Comfortable diffused light
- Smooth dimming with most forward and reverse phase dimmers*
- Available in 2700K, 3000K, 3500K, 4000K and 5000K color temperatures
- Suitable for use in totally enclosed fixtures**
- Suitable for use in damp locations
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Rated Lifetime (L70): 25,000hrs for 9W and 15W series, 15,000hrs for 5W, 9.5W, 13W and 15W 3WAY series
- 3WAY lamp emits Warm White light in 3 defined lumen outputs
- 3 year limited warranty***





SPECIFICATIONS

| Product | Model | Equiv. | Wattage (W) | CCT | Lumens | Efficacy (LPW) | Input Voltage | Beam Angle | CRI | Dim.* | Power Factor | Base | Fixture Rating | ES |
|---------|-------------------|--------|----------------|-------|--------|-------------------|------------------|---------------|-----|-------|-----------------|------|-------------------|--------------|
| 37082 | 5A19DIM/827/4PK | 40W | 5 | 2700K | 450 | 90 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 37083 | 5A19DIM/830/4PK | 40W | 5 | 3000K | 450 | 90 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36548 | 9A19DIM/827/R | 60W | 9 | 2700K | 800 | 89 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36549 | 9A19DIM/830/R | 60W | 9 | 3000K | 820 | 91 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36559 | 9A19DIM/835/R | 60W | 9 | 3500K | 840 | 93 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36550 | 9A19DIM/840/R | 60W | 9 | 4000K | 860 | 96 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | √ |
| 36551 | 9A19DIM/850/R | 60W | 9 | 5000K | 860 | 96 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36544 | 9.5A19DIM/827 | 60W | 9.5 | 2700K | 800 | 84 | 120V | 230° | 82 | Yes | 0.7 | E26 | OPEN | \checkmark |
| 36545 | 9.5A19DIM/830 | 60W | 9.5 | 3000K | 820 | 86 | 120V | 230° | 82 | Yes | 0.7 | E26 | OPEN | \checkmark |
| 36546 | 9.5A19DIM/840 | 60W | 9.5 | 4000K | 860 | 91 | 120V | 230° | 82 | Yes | 0.7 | E26 | OPEN | \checkmark |
| 36547 | 9.5A19DIM/850 | 60W | 9.5 | 5000K | 860 | 91 | 120V | 230° | 82 | Yes | 0.7 | E26 | OPEN | \checkmark |
| 36861 | 9.5A19DIM/827/R | 60W | 9.5 | 2700K | 800 | 84 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36862 | 9.5A19DIM/830/R | 60W | 9.5 | 3000K | 820 | 86 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36863 | 9.5A19DIM/840/R | 60W | 9.5 | 4000K | 860 | 91 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36615 | 13A19DIM/827 | 75W | 13 | 2700K | 1,100 | 85 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36616 | 13A19DIM/830 | 75W | 13 | 3000K | 1,150 | 88 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36617 | 13A19DIM/840 | 75W | 13 | 4000K | 1,200 | 92 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36618 | 13A19DIM/850 | 75W | 13 | 5000K | 1,200 | 92 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36671 | 15A19DIM/827 | 100W | 15 | 2700K | 1,600 | 107 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 36674 | 15A19DIM/850 | 100W | 15 | 5000K | 1,700 | 113 | 120V | 230° | 82 | Yes | 0.7 | E26 | Enclosed | \checkmark |
| 98150 | 15A21DIM/827/GU24 | 100W | 15 | 2700K | 1,600 | 107 | 120V | 240° | 82 | Yes | 0.9 | GU24 | Enclosed | \checkmark |
| | | 40W | 6 | | 450 | 75 | | | | | | | | |
| 36746 | 15A21/827/3WAY | 60W | 9 | 2700K | 800 | 89 | 120V | 230° | 82 | No | 0.7 | E26d | Non-Enclosed | \checkmark |
| | | 100W | 15 | | 1,600 | 107 | | | | | | | | |

* This lamp might not be compatible with all dimmers. Please visit www.greencreative.com for compatibility information.

** 9.5W not for use in totally enclosed luminaries or recessed luminaries, 15W 3WAY not for use in totally enclosed fixtures, all other lamps are suitable for use in totally enclosed non-IC fixtures. Besides, all Value Select A lamps are not suitable for use in IC enclosed fixtures.

*** Please visit www.greencreative.com for Limited Warranty terms.

www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - 🛉 / GREENCREATIVELED 🂓 / GClightingLED 📺 / GREEN-CREATIVE





Value Select A Lamp Family

DIMENSIONS & WEIGHT

| | — Dia. — | | | 1 | | | | — Dia. — | | | 1 | | |
|--------|--------------|-----------------|------|----------|--------|---------|-------|--------------|-----------------|------|---------|----------|---------|
| - Ы | \leftarrow | Model | Base | MOL | Dia. | Weight | or - | \leftarrow | Model | Base | MOL | Dia. | Weight |
| ž | | 5A19DIM/xxx/4PK | E26 | 4-3/16" | 2-3/8" | 0.06lb | ž | | 9A19DIM/xxx/R | E26 | 4-3/8" | 2-3/8" | 0.067lb |
| | — Dia. — | | | | | | | | | | | | |
| | \frown | | | | | | | Dia. | | | | | |
| 5 | | Model | Base | MOL | Dia. | Weight | | | Model | Base | MOL | Dia. | Weight |
| ž | | 9.5A19DIM/827 | E26 | 3-15/16" | 2-3/8" | 0.071lb | MOL | | 9.5A19DIM/xxx/R | E26 | 4-3/16" | 2-3/8" | 0.06lb |
| | — Dia. — | | | | | | | Dia | | | | | |
| | \bigcirc | | | | | | | | | | | | |
| or – | | Model | Base | MOL | Dia. | Weight | | () | Model | Base | MOL | Dia. | Weight |
| ≥ | | 13A19DIM/xxx | E26 | 4-9/16" | 2-3/8" | 0.104lb | MOL | | 15A19DIM/xxx | E26 | 4-7/16" | 2-3/8" | 0.15lb |
| | Dia | | | | | | | | | | | | |
| | | | | | | | | Dia | | | | | |
| с I | <u> </u> | Model | Base | MOL | Dia. | Weight | | | Model | Base | MOL | Dia. | Weight |
| ≥ | | 15A21/xxx/GU24 | GU24 | 5-1/2" | 3" | 0.26lb | MOL | \backslash | 15A21/xxx/3WAY | E26d | 5-7/16" | 2-15/16' | 0.2lb |
| | | | | | | | | | | | | | |

| MINIMUM COMPARTMENT DIMENSIONS (FOR ENCLOSED FIXTURES)**** | | | | | | | | | | |
|------------------------------------------------------------|----------|--------|--|--|--|--|--|--|--|--|
| Model | Diameter | Height | | | | | | | | |
| 5A19DIM/xxx/4PK | | | | | | | | | | |
| 9A19DIM/xxx/R | | | | | | | | | | |
| 9.5A19DIM/xxx/R | 5-1/8" | 7-1/2" | | | | | | | | |
| 13A19DIM/xxx | | | | | | | | | | |
| 15A19DIM/xxx | | | | | | | | | | |
| 15A21DIM/xxx/GU24 | | | | | | | | | | |

**** Installing lamp in a fixture that does not have the minimum compartment dimensions will void the warranty and could cause product failures.

Where xxx means 824-965 which indicates CRI and color temperature





Value Select A Lamp Family

| ORDERING INFORMATION | | | | | | | | | | | | |
|-----------------------------------------|------------------------------------------------------------------|-----------------------------|-------------|-----------------|-------------------------------|-------------|--|--|--|--|--|--|
| Model | | Master Carton | | Shipping Carton | | | | | | | | |
| Woder | Case Qty | Case Dimensions (L x W x H) | Case Weight | Case Qty | Case Dimensions (L x W x H) | Case Weight | | | | | | |
| 5A19DIM/xxx/4PK | N.A. | N.A. | N.A. | 24UNIT | 22-1/4" x 10-7/16" x 10-7/16" | 8.82 lb | | | | | | |
| 9A19DIM/xxx/R | N.A. | N.A. | N.A. | 72PCS | 15-9/16" x 15-9/16" x 10-5/8" | 11.38 lb | | | | | | |
| 9.5A19DIM/xxx | N.A. | N.A. | N.A. | 50PCS | 12-3/16" x 12-3/16" x 8-7/8" | 5.91 lb | | | | | | |
| 9.5A19DIM/xxx/R | N.A. | N.A. | N.A. | 50PCS | 12-3/16" x 12-3/16" x 9-1/4" | 5.16 lb | | | | | | |
| 13A19DIM/xxx | N.A. | N.A. | N.A. | 50PCS | 12-3/16" x 12-3/16" x 9-7/8" | 7.78 lb | | | | | | |
| 15A19DIM/xxx | 6PCS | 7-11/16"x5-1/8"x5-1/8" | 1.32 lb | 24PCS | 16"x11"x6-1/8" | 5.95 lb | | | | | | |
| 15A21DIM/xxx/GU24 | 6PCS | 9-5/8"x 6-5/8" x 6-3/8" | 2.36 lb | 24PCS | 19-7/16" x 13-3/8" x 7-3/16" | 10.58 lb | | | | | | |
| 15A21/xxx/3WAY | 6PCS | 9-3/4" x 6-5/8" x 6-3/8" | 1.76 lb | 24PCS | 19-5/8" x 13-3/8" x 7-1/4" | 8.38 lb | | | | | | |
| Where xxx means 824-965 which indicates | here xxx means 824-965 which indicates CRI and color temperature | | | | | | | | | | | |

CERTIFICATION INFORMATION

| Product | Model | ES ID# |
|---------|-----------------|---------|
| 36544 | 9A19DIM/827/R | 2384714 |
| 36545 | 9A19DIM/830/R | 2384715 |
| 36546 | 9A19DIM/840/R | 2384717 |
| 36547 | 9A19DIM/850/R | 2384718 |
| 36544 | 9.5A19DIM/827 | 2388097 |
| 36545 | 9.5A19DIM/830 | 2388091 |
| 36546 | 9.5A19DIM/840 | 2388096 |
| 36547 | 9.5A19DIM/850 | 2388098 |
| 36861 | 9.5A19DIM/827/R | 2394933 |
| 36862 | 9.5A19DIM/830/R | 2394940 |
| 36863 | 9.5A19DIM/840/R | 2394936 |
| 36615 | 13A19DIM/827 | 2388092 |
| 36616 | 13A19DIM/830 | 2388095 |
| 36617 | 13A19DIM/840 | 2388093 |
| 36618 | 13A19DIM/850 | 2388094 |
| 36746 | 15A21/827/3WAY | 2390564 |
| 36671 | 15A19DIM/827 | 2393096 |
| 36674 | 15A19DIM/850 | 2393099 |
| 37082 | 5A19DIM/827/4PK | 2404362 |
| 37083 | 5A19DIM/830/4PK | 2404363 |
| | | |

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.



| Project Name: | Туре: | |
|---------------|-------|--|
| Part Number: | Date: | |



HYBM PL OMNI

FEATURES

- Omni directional light distribution equivalent to fluorescent lamps
- May be installed horizontally and vertically
- HYBrid installation DIRect or BYPass
- Replaces G24d, GX24d (2-pin), G24q & GX24q (4-pin) 13W-26W CFL lamps
- Compatible with magnetic ballasts* DIRect installation
- Built-in universal voltage driver Bypass installation
- Exceptional high efficacy up to 126 LPW
- UL Listed & UL Classified for damp locations
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Rated lifetime (L70): 50,000hrs
- 5 year limited warranty
- Lamp CCT falls within 4 SDCM for consistent CCT



SPECIFICATIONS



⁄7 اقا



| Product | Model | Equiv. | Input Voltage | Wattage | Lumens | ССТ | CRI | Efficacy (LPW) | Power Factor | THD | Beam Angle | Dim.* | Fixture Rating** | Cert. |
|---------|---------------|---------|------------------|---------|--------|-------|-----|-------------------|-----------------|------|---------------|-------|---------------------|-------|
| 34996 | 7PLO/827/HYBM | 13W-18W | 120-277V | 7 | 770 | 2700K | 82 | 110 | 0.9 | <20% | 360° | No | Enclosed | N.A. |
| 34997 | 7PLO/830/HYBM | 13W-18W | 120-277V | 7 | 790 | 3000K | 82 | 112 | 0.9 | <20% | 360° | No | Enclosed | N.A. |
| 34998 | 7PLO/835/HYBM | 13W-18W | 120-277V | 7 | 820 | 3500K | 82 | 117 | 0.9 | <20% | 360° | No | Enclosed | N.A. |
| 34999 | 7PLO/840/HYBM | 13W-18W | 120-277V | 7 | 850 | 4000K | 82 | 121 | 0.9 | <20% | 360° | No | Enclosed | N.A. |
| 35000 | 9PLO/827/HYBM | 26W | 120-277V | 9 | 1,100 | 2700K | 82 | 122 | 0.9 | <20% | 360° | No | Enclosed | N.A. |
| 35001 | 9PLO/830/HYBM | 26W | 120-277V | 9 | 1,150 | 3000K | 82 | 125 | 0.9 | <20% | 360° | No | Enclosed | N.A. |
| 35002 | 9PLO/835/HYBM | 26W | 120-277V | 9 | 1,200 | 3500K | 82 | 130 | 0.9 | <20% | 360° | No | Enclosed | N.A. |
| 35003 | 9PLO/840/HYBM | 26W | 120-277V | 9 | 1,250 | 4000K | 82 | 133 | 0.9 | <20% | 360° | No | Enclosed | N.A. |

* Ballast Dependent. Please refer to www.greencreative.com for full ballast compatibility list.

** Suitable for use in totally enclosed fixtures. Please make sure the minimum dimensions of the lamp compartment in the fixture meet the guidelines in the installation guide.

DIMENSION & WEIGHT







| Model | 7PLO/xxx/HYBM | 9PLO/xxx/HYBM | | | |
|-----------------|---------------------------------------|---------------|--|--|--|
| Compatible base | G24d, GX24d, G24q & GX24q (2/4-pin CF | | | | |
| MOL | 5-11/16" | 6-7/8" | | | |
| Dia. | 1-3/8" | 1-3/8" | | | |
| Weight | 0.18 lb | 0.22 lb | | | |

An ILLUMUS Brand

Where xxx means 824-965 which indicates CRI and color temperature

www.greencreative.com - info@greencreative.com - Tel / Fax: (866) 774-5433 - 🛉 / GREENCREATIVELED 🂓 / GClightingLED 📺 / GREEN-CREATIVE



PL:EDGE

7PLO

9PLO





HYBM PL OMNI

MINIMUM COMPARTMENT DIMENSIONS

Note - the base of this lamp is 1-3/8" by 1-3/8" and the opening in the reflector should be a minimum of 1-3/8" by 1-3/8" to insure a proper fit. For non-enclosed rated applications the minimum compartment must be follow below guidelines.

| Non-enclosed Fixture Horizontal Installation | Model Number | 7PLO/xxx/HYBM | 9PLO/xxx/HYBM | |
|----------------------------------------------|-----------------------------|---------------|---------------|--------|
| | Lown Comportment Dimensione | Diameter | 6-1/8" | 6-1/8" |
| | Lamp Compariment Dimensions | Height | 4-3/4" | 4-3/4" |
| | Maximum Lamps in Lumi | 2 | 2 | |
| <u> </u> | Lampholder-to-Lampholder | 3/8" | 3/8" | |

| Non-enclosed Fixture Vertical Installation | Ion-enclosed Fixture Vertical Installation Model Number | | | |
|--------------------------------------------|---------------------------------------------------------|----------|---------|---------|
| | | Diameter | 4-1/2" | 6-5/16" |
| | Lamp Compartment Dimensions Height | | 8-1/16" | 9-1/16" |
| | Maximum Lamps in Lumi | 1 | 1 | |

For enclosed rated applications the minimum compartment must be follow below guidelines.



Where xxx means 824-965 which indicates CRI and color temperature. Product warranty is defined based on the condition of above minimum compartment size, maximum lamps in glass/metal luminaire.

| TEMPERATURE | | | | | |
|-----------------------|-----------------------------|--------------------------|-------------------------------|--|--|
| Fixture operating ter | mperature | Lamp ambient temperature | | | |
| Non-enclosed Fixture | -4°F to 95°F(-20°C to 35°C) | 7PLO/xxx/HYBM | -4°F to 113°F (-20°C to 45°C) | | |

Where xxx means 824-965 which indicates CRI and color temperature.





HYBM PL OMNI

HYBrid Installation - DIRect or BYPass - Magnetic Ballasts

When used with a magnetic ballast, the PLO lamp can function as a plug & play lamp and operate with the existing ballast.



If the ballast is not compatible, it can be bypassed and the lamp can run directly off line voltage.



G24d, GX24d (2-pin)



G24q/GX24q (4-pin)

| ACCES | ACCESSORY ORDERING INFORMATION | | | | | | | | | |
|---------|--------------------------------|-----------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Product | Model | Description | Pictures | Dimensions | | | | | | |
| 98003 | 23EMDRIVER | California Title 20 Compliant 23W Emergency LED Driver (Field Installation) | | 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3/16" 2-3 | | | | | | |

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.



2YEAR

RoHS Z Compliant





KT-LED9.5A19-0-8XX REPLACEMENT LAMP

DESCRIPTION

9.5W A19 Lamp | 2700-5000K | >80 CRI | Omni-Directional

LAMP TYPE: A19

BASE TYPE: E26 (Medium)

WATTAGE: 9.5W

COLOR TEMPERATURE: 2700–5000K

COLOR RENDERING INDEX (CRI): >80

WARRANTY: 2 Years

RATED LIFE: L70 (15,000 Hours)

TYPICAL APPLICATIONS

- Table, Desk, and Floor Lamps
- Wall Sconces
- General Lighting
 Pendant Lights
- Wall Sconces
 Surface Mount Ceiling Fixtures
- Surface Mouril Celling Fixture:

PRODUCT FEATURES

- Energy Efficient, 80%+ Energy Savings over Legacy Equivalents
- Lower Heat Generation than Legacy Equivalents
- PF > 0.70
- Complies with Part 15 of FCC
- Durable Plastic housing lowers the risk for breakage
- ANSI complaint construction ensures fitment for intended applications
- Operating temperature range -4°F/-20°C to 95°F/35°C
- Long Life minimizes replacement and maintenance costs
- Meets Energy Star requirements
- UL Listed
- Smooth diffused lens for comfortable glare free performance
- UL enclosed rated, suitable for use in totally enclosed luminaires
- Smooth, uniform dimming

ELECTRICAL AND PERFORMANCE SPECIFICATIONS

| Keystone Catalog Number | Description | Color Temp | Input Voltage | Rated Lamp Wattage | Legacy Equivalent Wattage | Base Type | Lumens | CRI | Light Distribution | Dimmable | Efficacy |
|-------------------------|--------------------------------------|---------------|------------------|--------------------------|---------------------------------|--------------|--------|-----|-----------------------|----------|----------|
| KT-LED9.5A19-0-827 | A19 bulb. Omni-Directional, dimmable | 2700K | 120V | 9.5W | 60W halogen | E26 | 800 | >80 | 230° | Yes | 84 lm/W |
| KT-LED9.5A19-0-830 | A19 bulb. Omni-Directional, dimmable | 3000K | 120V | 9.5W | 60W halogen | E26 | 800 | >80 | 230° | Yes | 84 lm/W |
| KT-LED9.5A19-0-835 | A19 bulb. Omni-Directional, dimmable | 3500K | 120V | 9.5W | 60W halogen | E26 | 800 | >80 | 230° | Yes | 84 lm/W |
| KT-LED9.5A19-0-840 | A19 bulb. Omni-Directional, dimmable | 4000K | 120V | 9.5W | 60W halogen | E26 | 800 | >80 | 230° | Yes | 84 lm/W |
| KT-LED9.5A19-0-850 | A19 bulb. Omni-Directional, dimmable | 5000K | 120V | 9.5W | 60W halogen | E26 | 800 | >80 | 230° | Yes | 84 lm/W |

Keystone Technologies • Philadelphia, PA • Phone (800) 464-2680 • www.keystonetech.com Specifications subject to change. Last revised on 12.12.19



(ŶL

ISTER





KT-LED9.5A19-O-8XX REPLACEMENT LAMP

PHYSICAL CHARACTERISTICS



PACKAGING

| Carton Quantity | 60 pcs |
|-------------------|-----------------------|
| Carton Dimensions | 15.55" × 13.07" × 10" |
| Carton Weight | 9.9 lbs |

LAMP DIMENSIONS

| A (Length) | 4.33" |
|--------------|-------|
| B (Diameter) | 2.36" |

BASE TYPE: E26 (Medium)

ORDERING INFORMATION

| ORDER CODE | CARTON QUANTITY | ITEM STATUS |
|--------------------|-----------------|-------------|
| KT-LED9.5A19-O-8XX | 60 pcs | Active |

CATALOG NUMBER BREAKDOWN



- 1 Keystone Technologies
- 2 LED Lamp
- 3 Wattage
- 4 Lamp Shape
- 5 Omni-Directional
- 6 800 Series
- 7 Color Temperature

EVERLINE

FEATURES

Integral Driver, Bypasses ballast

Type:

Catalog #:

- Universal input voltage 120-277VAC
- Double ended input
 - Reduces installation costs
- Shunted or Non-shunted
- 4' 1800 & 2200 lumen options
- High Efficiency operation, up to 150 lm/W
 Standard and Premium options
- Long Life: 50,000 hours L80
- Glass construction for optimum optical efficiency
- Full light output down to -4°F
- RoHS Compliant Mercury Free
- No UV Emissions
- 5 Year limited lamp warranty
- UL Classified 1598C for US and Canada
- NSF Listed
- DesignLights Consortium® qualified on select models.

Date:

Prepared by:

Consult www.designlights.org/QPL for details

ORDERING GUIDE

AC Direct T8 LED

7/8408

Integral Driver

| Standard | | | | | | | | | |
|-----------------|---------------------|--------|--------|-----------|-----------------|------|---------|------|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (Im/W) | ССТ | Pkg Qty | DLC◎ | UPC Code |
| T8LACD2F9/835B | T8LACD2F9/835B25EC | 24" | | | | 3500 | | Y | 768386645115 |
| T8LACD2F9/840B | T8LACD2F9/840B25EC | 24" | 1050 | 9 | 117 | 4000 | 25 | Y | 768386645122 |
| T8LACD2F9/850B | T8LACD2F9/850B25EC | 24" | | | | 5000 | | Y | 768386645139 |
| T8LACD3F12/835B | T8LACD3F12/835B25EC | 36" | | | | 3500 | | Y | 768386693031 |
| T8LACD3F12/840B | T8LACD3F12/840B25EC | 36" | 1450 | 12 | 120 | 4000 | 25 | Y | 768386693048 |
| T8LACD3F12/850B | T8LACD3F12/850B25EC | 36" | | | | 5000 | | Y | 768386693055 |
| T8LACD4F14/835B | T8LACD4F14/835B25EC | 48" | | | | 3500 | | Y | 768386623137 |
| T8LACD4F14/840B | T8LACD4F14/840B25EC | 48" | 1800 | 14 | 129 | 4000 | 25 | Y | 768386623144 |
| T8LACD4F14/850B | T8LACD4F14/850B25EC | 48" | | | | 5000 | | Y | 768386623151 |
| T8LACD6U15/835B | T8LACD6U15/835B12C | U-22" | 2000 | 45.4 | 132 | 3500 | 10 | Y | 768386703648 |
| T8LACD6U15/840B | T8LACD6U15/840B12C | U-22" | 2100 | 15.1 | 139 | 4000 | 12 | Y | 768386703655 |
| T8LACD4F17/835B | T8LACD4F17/835B25EC | 48" | | | | 3500 | | Y | 768386623168 |
| T8LACD4F17/840B | T8LACD4F17/840B25EC | 48" | 2200 | 17 | 129 | 4000 | 25 | Y | 768386623175 |
| T8LACD4F17/850B | T8LACD4F17/850B25EC | 48" | | | | 5000 | | Y | 768386623182 |
| T8LACD4F25/840B | T8LACD4F25/840B25EC | 48" | 2000 | 05 | 100 | 4000 | 25 | Y | 768386710004 |
| T8LACD4F25/850B | T8LACD4F25/850B25EC | 48" | 3000 | 20 | 120 | 5000 | 25 | Y | 768386710011 |

Project:

| Premium | | | | | | | | | |
|-----------------|---------------------|--------|--------|-----------|-----------------|------|---------|------------------|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (Im/W) | CCT | Pkg Qty | DLC [®] | UPC Code |
| T8LACD4F10/835B | T8LACD4F10/835B25EC | 48" | | | | 3500 | | Y | 768386690863 |
| T8LACD4F10/840B | T8LACD4F10/840B25EC | 48" | 1650 | 10.5 | 157 | 4000 | 25 | Y | 768386690870 |
| T8LACD4F10/850B | T8LACD4F10/850B25EC | 48" | | | | 5000 | | Y | 768386690887 |
| T8LACD4F12/835B | T8LACD4F12/835B25EC | 48" | | | | 3500 | | Y | 768386645054 |
| T8LACD4F12/840B | T8LACD4F12/840B25EC | 48" | 1800 | 12 | 150 | 4000 | 25 | Y | 768386645061 |
| T8LACD4F12/850B | T8LACD4F12/850B25EC | 48" | | | | 5000 | | Y | 768386645078 |
| T8LACD4F15/830B | T8LACD4F15/830B25EC | 48" | | | | 3000 | | Y | 768386695059 |
| T8LACD4F15/835B | T8LACD4F15/835B25EC | 48" | 2200 | 15 | 147 | 3500 | 05 | Y | 768386645085 |
| T8LACD4F15/840B | T8LACD4F15/840B25EC | 48" | 2200 | 15 | 147 | 4000 | 20 | Y | 768386645092 |
| T8LACD4F15/850B | T8LACD4F15/850B25EC | 48" | | | | 5000 | | Y | 768386645108 |

ADDITIONAL SPECIFICATIONS

| Lamp Type: | Linear T8 | Ambient Temperature: | -4°F to 113°F |
|------------------------------|---------------------|----------------------|----------------------------|
| Base: | Medium Bi-Pin (G13) | Beam Angle: | 210° |
| Color Rendering Index (CRI): | 82 | EMI/RFI: | FCC Part 18 - Non-Consumer |
| Lumen Maintenance: | L80 > 60,000 Hours | Warranty: | 5 years |

WIRING DIAGRAM



OPERATING NOTES:

* Input voltage is wired so that one lamp holder is connected to Neutral and the other to Line. * Shunted or Non-Shunted lamp holders may be used.





www.unvlt.com Rev. 3/4/21







OPERATING NOTES:

- Suitable for use in dry and damp environments
- Must follow installation guidelines provide with the lamp shipment.
- NSF Listed for Food Zone (Non-contact), Splash Zone, and Non-food Zone.



EVERLINE

FEATURES

Integral Driver, Bypasses ballast

Type:

Catalog #:

- Universal input voltage 120-277VAC
- Double ended input
 - Reduces installation costs
 - Shunted or Non-shunted
- 4' 1800 & 2200 lumen options
- High Efficiency operation, up to 150 lm/W
 Standard and Premium options
- Long Life: 50,000 hours L80
- Glass construction for optimum optical efficiency
- Full light output down to -4°F
- RoHS Compliant Mercury Free
- No UV Emissions
- 5 Year limited lamp warranty
- UL Classified 1598C for US and Canada
- NSF Listed
- DesignLights Consortium® qualified on select models.

Date:

Prepared by:

Consult www.designlights.org/QPL for details

ORDERING GUIDE

AC Direct T8 LED

7/8408

Integral Driver

| Standard | | | | | | | | | |
|-----------------|---------------------|--------|--------|-----------|-----------------|------|---------|------|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (Im/W) | ССТ | Pkg Qty | DLC◎ | UPC Code |
| T8LACD2F9/835B | T8LACD2F9/835B25EC | 24" | | | | 3500 | | Y | 768386645115 |
| T8LACD2F9/840B | T8LACD2F9/840B25EC | 24" | 1050 | 9 | 117 | 4000 | 25 | Y | 768386645122 |
| T8LACD2F9/850B | T8LACD2F9/850B25EC | 24" | | | | 5000 | | Y | 768386645139 |
| T8LACD3F12/835B | T8LACD3F12/835B25EC | 36" | | | | 3500 | | Y | 768386693031 |
| T8LACD3F12/840B | T8LACD3F12/840B25EC | 36" | 1450 | 12 | 120 | 4000 | 25 | Y | 768386693048 |
| T8LACD3F12/850B | T8LACD3F12/850B25EC | 36" | | | | 5000 | | Y | 768386693055 |
| T8LACD4F14/835B | T8LACD4F14/835B25EC | 48" | | | | 3500 | | Y | 768386623137 |
| T8LACD4F14/840B | T8LACD4F14/840B25EC | 48" | 1800 | 14 | 129 | 4000 | 25 | Y | 768386623144 |
| T8LACD4F14/850B | T8LACD4F14/850B25EC | 48" | | | | 5000 | | Y | 768386623151 |
| T8LACD6U15/835B | T8LACD6U15/835B12C | U-22" | 2000 | 151 | 132 | 3500 | 10 | Y | 768386703648 |
| T8LACD6U15/840B | T8LACD6U15/840B12C | U-22" | 2100 | 15.1 | 139 | 4000 | 12 | Y | 768386703655 |
| T8LACD4F17/835B | T8LACD4F17/835B25EC | 48" | | | | 3500 | | Y | 768386623168 |
| T8LACD4F17/840B | T8LACD4F17/840B25EC | 48" | 2200 | 17 | 129 | 4000 | 25 | Y | 768386623175 |
| T8LACD4F17/850B | T8LACD4F17/850B25EC | 48" | | | | 5000 | | Y | 768386623182 |
| T8LACD4F25/840B | T8LACD4F25/840B25EC | 48" | 3000 | 25 | 120 | 4000 | 25 | Y | 768386710004 |
| T8LACD4F25/850B | T8LACD4F25/850B25EC | 48" | 3000 | 20 | 120 | 5000 | 25 | Y | 768386710011 |

Project:

| Premium | | | | | | | | | |
|-----------------|---------------------|--------|--------|-----------|-----------------|------|---------|------------------|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (Im/W) | CCT | Pkg Qty | DLC [®] | UPC Code |
| T8LACD4F10/835B | T8LACD4F10/835B25EC | 48" | | | | 3500 | | Y | 768386690863 |
| T8LACD4F10/840B | T8LACD4F10/840B25EC | 48" | 1650 | 10.5 | 157 | 4000 | 25 | Y | 768386690870 |
| T8LACD4F10/850B | T8LACD4F10/850B25EC | 48" | | | | 5000 | | Y | 768386690887 |
| T8LACD4F12/835B | T8LACD4F12/835B25EC | 48" | | | | 3500 | | Y | 768386645054 |
| T8LACD4F12/840B | T8LACD4F12/840B25EC | 48" | 1800 | 12 | 150 | 4000 | 25 | Y | 768386645061 |
| T8LACD4F12/850B | T8LACD4F12/850B25EC | 48" | | | | 5000 | | Y | 768386645078 |
| T8LACD4F15/830B | T8LACD4F15/830B25EC | 48" | | | | 3000 | | Y | 768386695059 |
| T8LACD4F15/835B | T8LACD4F15/835B25EC | 48" | 2200 | 15 | 1.47 | 3500 | 05 | Y | 768386645085 |
| T8LACD4F15/840B | T8LACD4F15/840B25EC | 48" | 2200 | 15 | 147 | 4000 | 20 | Y | 768386645092 |
| T8LACD4F15/850B | T8LACD4F15/850B25EC | 48" | | | | 5000 | | Y | 768386645108 |

ADDITIONAL SPECIFICATIONS

| Lamp Type: | Linear T8 | Ambient Temperature: | -4°F to 113°F |
|------------------------------|---------------------|----------------------|----------------------------|
| Base: | Medium Bi-Pin (G13) | Beam Angle: | 210° |
| Color Rendering Index (CRI): | 82 | EMI/RFI: | FCC Part 18 - Non-Consumer |
| Lumen Maintenance: | L80 > 60,000 Hours | Warranty: | 5 years |

WIRING DIAGRAM



OPERATING NOTES:

* Input voltage is wired so that one lamp holder is connected to Neutral and the other to Line. * Shunted or Non-Shunted lamp holders may be used.





www.unvlt.com Rev. 3/4/21









OPERATING NOTES:

- Suitable for use in dry and damp environments
- Must follow installation guidelines provide with the lamp shipment.
- NSF Listed for Food Zone (Non-contact), Splash Zone, and Non-food Zone.



EVERLINE

AC Direct T8 LED

Integral Driver



FEATURES

Integral Driver, Bypasses ballast

Type:

Catalog #:

- Universal input voltage 120-277VAC
- Double ended input
 - Reduces installation costs
- Shunted or Non-shunted
- 4' 1800 & 2200 lumen options
 Llick Efficiency operation up to 150
- High Efficiency operation, up to 150 lm/W
 Standard and Premium options
- Long Life: 50,000 hours L80
- Glass construction for optimum optical efficiency
- Full light output down to -4°F
- RoHS Compliant Mercury Free
- No UV Emissions
- 5 Year limited lamp warranty
- UL Classified 1598C for US and Canada
- NSF Listed
- DesignLights Consortium[®] qualified on select models. Consult <u>www.designlights.org/QPL</u> for details

Date:

Prepared by:

ORDERING GUIDE

| Standard | | | | | | | | | |
|-----------------|---------------------|--------|--------|-----------|-----------------|------|---------|------|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (Im/W) | CCT | Pkg Qty | DLC◎ | UPC Code |
| T8LACD2F9/835B | T8LACD2F9/835B25EC | 24" | | | | 3500 | | Y | 768386645115 |
| T8LACD2F9/840B | T8LACD2F9/840B25EC | 24" | 1050 | 9 | 117 | 4000 | 25 | Y | 768386645122 |
| T8LACD2F9/850B | T8LACD2F9/850B25EC | 24" | | | | 5000 | | Y | 768386645139 |
| T8LACD3F12/835B | T8LACD3F12/835B25EC | 36" | | | | 3500 | | Y | 768386693031 |
| T8LACD3F12/840B | T8LACD3F12/840B25EC | 36" | 1450 | 12 | 120 | 4000 | 25 | Y | 768386693048 |
| T8LACD3F12/850B | T8LACD3F12/850B25EC | 36" | | | | 5000 | | Y | 768386693055 |
| T8LACD4F14/835B | T8LACD4F14/835B25EC | 48" | | | | 3500 | | Y | 768386623137 |
| T8LACD4F14/840B | T8LACD4F14/840B25EC | 48" | 1800 | 14 | 129 | 4000 | 25 | Y | 768386623144 |
| T8LACD4F14/850B | T8LACD4F14/850B25EC | 48" | | | | 5000 | | Y | 768386623151 |
| T8LACD6U15/835B | T8LACD6U15/835B12C | U-22" | 2000 | 151 | 132 | 3500 | 10 | Y | 768386703648 |
| T8LACD6U15/840B | T8LACD6U15/840B12C | U-22" | 2100 | 15.1 | 139 | 4000 | 12 | Y | 768386703655 |
| T8LACD4F17/835B | T8LACD4F17/835B25EC | 48" | | | | 3500 | | Y | 768386623168 |
| T8LACD4F17/840B | T8LACD4F17/840B25EC | 48" | 2200 | 17 | 129 | 4000 | 25 | Y | 768386623175 |
| T8LACD4F17/850B | T8LACD4F17/850B25EC | 48" | | | | 5000 | | Y | 768386623182 |
| T8LACD4F25/840B | T8LACD4F25/840B25EC | 48" | 2000 | 25 | 120 | 4000 | 25 | Y | 768386710004 |
| T8LACD4F25/850B | T8LACD4F25/850B25EC | 48" | 3000 | 20 | 120 | 5000 | 25 | Y | 768386710011 |

Project:

| Premium | | | | | | | | | |
|-----------------|---------------------|--------|--------|-----------|-----------------|------|---------|------------------|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (Im/W) | CCT | Pkg Qty | DLC [®] | UPC Code |
| T8LACD4F10/835B | T8LACD4F10/835B25EC | 48" | | | | 3500 | | Y | 768386690863 |
| T8LACD4F10/840B | T8LACD4F10/840B25EC | 48" | 1650 | 10.5 | 157 | 4000 | 25 | Y | 768386690870 |
| T8LACD4F10/850B | T8LACD4F10/850B25EC | 48" | | | | 5000 | | Y | 768386690887 |
| T8LACD4F12/835B | T8LACD4F12/835B25EC | 48" | | | | 3500 | | Y | 768386645054 |
| T8LACD4F12/840B | T8LACD4F12/840B25EC | 48" | 1800 | 12 | 150 | 4000 | 25 | Y | 768386645061 |
| T8LACD4F12/850B | T8LACD4F12/850B25EC | 48" | | | | 5000 | | Y | 768386645078 |
| T8LACD4F15/830B | T8LACD4F15/830B25EC | 48" | | | | 3000 | | Y | 768386695059 |
| T8LACD4F15/835B | T8LACD4F15/835B25EC | 48" | 2200 | 15 | 147 | 3500 | 05 | Y | 768386645085 |
| T8LACD4F15/840B | T8LACD4F15/840B25EC | 48" | 2200 | 15 | 147 | 4000 | 20 | Y | 768386645092 |
| T8LACD4F15/850B | T8LACD4F15/850B25EC | 48" | | | | 5000 | | Y | 768386645108 |

ADDITIONAL SPECIFICATIONS

| Lamp Type: | Linear T8 | Ambient Temperature: | -4°F to 113°F |
|------------------------------|---------------------|----------------------|----------------------------|
| Base: | Medium Bi-Pin (G13) | Beam Angle: | 210° |
| Color Rendering Index (CRI): | 82 | EMI/RFI: | FCC Part 18 - Non-Consumer |
| Lumen Maintenance: | L80 > 60,000 Hours | Warranty: | 5 years |

WIRING DIAGRAM



OPERATING NOTES:

* Input voltage is wired so that one lamp holder is connected to Neutral and the other to Line. * Shunted or Non-Shunted lamp holders may be used.





www.unvlt.com Rev. 3/4/21







OPERATING NOTES:

- Suitable for use in dry and damp environments
- Must follow installation guidelines provide with the lamp shipment.
- NSF Listed for Food Zone (Non-contact), Splash Zone, and Non-food Zone.

0°





One-Stop Efficiency Shop ® LIGHTING EFFICIENCY REBATE APPLICATION

| usiness Nar | ne ISD | 256/Burnside | e Elem-Phase 4- | -tinal | | | |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| nstallation A | ddress 5001 | Learning Lr | 1 | City Red Wing | | State MN | ZIP 55066 |
| Contact Perso | on Alan | Gaylor | | Phone 651,385,45 | 08 | Fax | |
| be undersigned Il installation is pllowed. Further resented for this | does hereby certify complete prior to s , the undersigned Xcel Energy prog | y that: 1) the unde ubmitting rebate; acknowledges the ram by the party. | ersigned, and not Xe ; and 3) all rules of th at nothing contained The undersigned a | el Energy, is solely responsi tis One-Stop Efficiency She in this application shall imp uthorizes the party listed l | ble for the accuracy p® Lighting Effici ose any liability on pelow to receive th | y of the information co ency Program (see atta Xcel Energy for the w ne rebate check for th | ntained in this application; 2) ched Program Rules) have be ork performed and informatio is project. |
| Rebate | Payable T | 0: | Center for Er | nergy and Environme | nt | CEE ACH: | |
| Check | Mailing A | ddress: | Center for Er 212 3rd Aver Minneapolis, | nergy and Environme nue North, Suite 560 , MN 55401 | nt, c/o Admin | The Retrofit | Companies |
| Customer | Signature | XA | and on | typ | | 1 | Date 11/23/22 |
| Xcel Accoun | t Number | 30368 | 9040 | / | CEE Fina | anced 🗆 Yes | ☑ No |
| | | | | | | | |
| Rebate In | formation | | | | | | |
| E | stimated elect | ric demand s | avings | 33.214 | kW | | |
| E | stimated elect | ric energy sa | vings | 110,408 kV | /h/yr | | |
| Ir | stalled cost o | f new lighting | g systems | \$224,90 | 9.00 | | |
| C (Se | ne Stop Effic | eiency Shop@ | ® Rebate | \$24,1 | 70.33 | | |
| N | et cost of new | lighting sys | tems | \$200,73 | 38.67 | | |
| Vendor I | nformation | | | | | | |
| | ne The F | letrofit Comp | oanies | | | Wk Pl | n (507) 414-5156 |
| Vendor Nam | ramer@retrof | itcompanies. | com | Contact Zane Kran | ner | Mobil | e |
| Vendor Nan Email zk | | | | | | | |
| Vendor Nam Email zk Xcel Ene | rgy | | the second distance | All CD involve and and | hafara Vest Energy | u ieruas incantinas Va | al Finarov retains |
| Vendor Nan Email <u>zk</u> Xcel Ene | rgy | the second stands and the second stands | a form and the DETA | AILED invoice are required ry. | before Acel Energ | y issues incentives. Ac | er Energy retains |
| Vendor Nan Email zk Xcel Ene IMPORTANT: the right to make | PSY A copy of this com adjustments to co | prect incentive ca | neurona n necessa | | | ut Incomposite C | anital Internative Heating |

Program ID#

Lighting System Descriptions

Property: ISD 256/Burnside Elem-Phase 4-final

Area / Schedule / Active

| Lighting System ID Selected System Name / Description | | # Fix # Lamps Ballast Code = Description or | | | | Tandem | | Energy Analysis | | |
|----------------------------------------------------------|-----------------------------|---------------------------------------------|---|------------|-------------------------|---------|-------|-----------------|--------|--|
| Selected | d System Name / Description | / Fix INCAN Watt/Lamp & Lamp Type | | | | Wiring | W/Fix | Watt | kWh/yr | |
| | | | | | | | | | | |
| A: Ex | xterior Wallpacks | | | | Schedule=Exterior (4380 | hrs/yr) | | | | |
| OLD: | HPS 100W STD1 1L | 22 | 1 | W12100 = H | IPS 100W (MOG), STD-1 | | 130 | 2,860 | 12,527 | |
| \checkmark | | | 1 | (130W) | | | | | | |
| NEW: | LED Wall Pack Fixture 40W | 22 | 1 | LED= 40W, | Type=Fixture | | 40 | 880 | 3,854 | |
| \checkmark | DLC | | 1 | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|------------------|------------------|----------------|----------|--------------------|
| Xcel Rebate | 1,980.00 W | 8,672.4 kWh/yr | \$6,950.05 | \$520.34 | ☑ \$0/kW □ 60% Cap |
| Calculation | (Exterior Night- | Only, PC=0.00 W) | | | \$0.06/kWh |

| B: Ex | xterior Doors | Schedule=Exterior (4380hrs/ | Schedule=Exterior (4380hrs/yr) | | | | | |
|--------------|----------------------------|-----------------------------|--------------------------------|-------------------------------|--|----|-----|-------|
| OLD: | HPS 70W STD1 1L | 7 | 1 | W12060 = HPS 70W (MED), STD-1 | | 86 | 602 | 2,637 |
| \checkmark | | | | (86W) | | | | |
| NEW: | LED Can Hardwired Retrofit | 7 | 1 | LED= 13W, Type=Recessed Can | | 13 | 91 | 399 |
| \checkmark | Kit 6" 13W | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|-------------------|------------------|----------------|----------|--------------------|
| Xcel Rebate | 511.00 W | 2,238.2 kWh/yr | \$887.66 | \$111.91 | ☑ \$0/kW □ 60% Cap |
| Calculation | (Exterior Night-0 | Only, PC=0.00 W) | | | \$0.05/kWh |

| C: Ex | xterior Poles | | | Schedule=Exterior (4380hrs/ | yr) | | | |
|--------------|---------------------------|----|----------------------------------|-----------------------------|-----|-------|-------|--------|
| OLD: | HPS 400W STD1 1L | 16 | 1 W12220 = HPS 400W (MOG), STD-1 | | | 457 | 7,312 | 32,027 |
| \checkmark | | | | (457W) | | | | |
| NEW: | LED Area Light 189.5W DLC | 6 | 1 | LED= 189.5W, Type=Fixture | | 189.5 | 1,137 | 4,980 |
| \checkmark | Premium | | | | | | | |
| NEW: | LED Area Light 213.5W DLC | 4 | 1 | LED= 213.5W, Type=Fixture | | 213.5 | 854 | 3,741 |
| \checkmark | Premium | | | | | | | |
| NEW: | LED Area Light 150W DLC | 2 | 1 | LED= 150W, Type=Fixture | | 150 | 300 | 1,314 |
| \checkmark | Premium | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|-------------------|------------------|----------------|------------|--------------------|
| Xcel Rebate | 5,021.00 W | 21,992.0 kWh/yr | \$8,509.99 | \$1,319.52 | ☑ \$0/kW □ 60% Cap |
| Calculation | (Exterior Night-0 | Only, PC=0.00 W) | | | \$0.06/kWh |

| D: Lo | obby | Schedule=3900 hrs/week (39 | Schedule=3900 hrs/week (3900hrs/yr) | | | | | |
|--------------|-------------------------|----------------------------|-------------------------------------|------------------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2 2L * | 17 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 731 | 2,851 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 17 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 408 | 1,591 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------|
| Xcel Rebate Calculation | 323.00 W | 1,259.7 kWh/yr | \$1,314.34 | \$190.57 | |
| | | | | | \$0.10/KWII |

| D: Lo | D: Lobby Schedule=3900 hrs/week (39 | | | | | | | |
|--------------|-------------------------------------|----|------------------------------------------------|-------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2 2L * | 10 | 10 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 430 | 1,677 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 10 | 1 | LED= 25W, Type=Retrofit | | 25 | 250 | 975 |
| \checkmark | 25W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 180.00 W | 702.0 kWh/yr | \$2,455.32 | \$199.13 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| E: Tr | ophy Case | Schedule=3900 hrs/week (39 | Schedule=3900 hrs/week (3900hrs/yr) | | | | | |
|--------------|-------------------------|----------------------------|-------------------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2 2L * | 4 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 172 | 671 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 4 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 96 | 374 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 76.00 W | 296.4 kWh/yr | \$309.26 | \$44.84 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| F: Ro | F: Rooms 100-120 Schedule=5x01 (261hrs/yr) | | | | | | | |
|--------------|----------------------------------------------------|---|-----------------------------------------------|------------------------------------|--|----|-----|----|
| OLD: | T8 4' 25W E2E1 3L * | 3 | 3 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 207 | 54 |
| \checkmark | | | | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 3 | 1 | LED= 28W, Type=Retrofit | | 28 | 84 | 22 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 123.00 W | 32.1 kWh/yr | \$745.24 | \$52.14 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |
| | | | | | + |

| F: Ro | F: Rooms 100-120 Schedule=3900 hrs/week (390) | | | | | | | |
|--------------|-------------------------------------------------------|----|--------------------------------------|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2E1 3L * | 19 | 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 69 | 1,311 | 5,113 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 19 | 1 | LED= 28W, Type=Retrofit | | 28 | 532 | 2,075 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 779.00 W | 3,038.1 kWh/yr | \$4,719.84 | \$861.77 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| F: Ro | boms 100-120 | Schedule=3900 hrs/week (39 | Schedule=3900 hrs/week (3900hrs/yr) | | | | | |
|--------------|---------------------------|----------------------------|-------------------------------------|-------------------------|-----|------|-----|-----|
| OLD: | INC A 60W 2L (EISA= INC A | 2 | 2 | INCAN= 60W, Type=A-Lamp | | 120 | 240 | 936 |
| \checkmark | 43W 2L) | | 1 | | EIS | A=86 | 172 | 671 |
| NEW: | LED 9W 2L A-Lamp | 2 | 2 | LED= 9W, Type=A-Lamp | | 18 | 36 | 140 |
| \checkmark | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 136.00 W | 530.4 kWh/yr | \$67.98 | \$33.99 | □ \$160/kW ☑ 50% Cap \$0.08/kWh |

| F: Ro | ooms 100-120 | Schedule=3900 hrs/week (3900hrs/yr) | | | | | | |
|--------------|-------------------|-------------------------------------|--------------|----------------|--|----|----|-----|
| OLD: | CFL 13W-2L Spiral | 1 | 2 CFL-S=13W | /, Type=Spiral | | 26 | 26 | 101 |
| \checkmark | | | L | | | | | |
| NEW: | LED 9W 2L A-Lamp | 1 | 2 LED= 9W, T | ype=A-Lamp | | 18 | 18 | 70 |
| \checkmark | | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|--------|------------------------------------|
| Xcel Rebate Calculation | 8.00 W | 31.2 kWh/yr | \$35.35 | \$3.78 | ☑ \$160/kW □ 50% Cap \$0.08/kWh |

| F: Ro | boms 100-120 | Schedule=1800 hrs/week (18 | Schedule=1800 hrs/week (1800hrs/yr) | | | | | |
|--------------|----------------------------|----------------------------|-------------------------------------|---------------------------|-----|-------|-----|-------|
| OLD: | INC PAR 150W 1L (EISA= INC | 6 | 1 | INCAN= 150W, Type=PAR | | 150 | 900 | 1,620 |
| \checkmark | PAR 100W 1L) | | | | EIS | A=100 | 600 | 1,080 |
| NEW: | LED 15.5W 1L Par | 6 | 1 | LED= 15.5W, Type=PAR-Lamp | | 15.5 | 93 | 167 |
| \checkmark | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 507.00 W | 912.6 kWh/yr | \$177.58 | \$88.79 | □ \$160/kW ☑ 50% Cap \$0.08/kWh |

| F: Ro | F: Rooms 100-120 Schedule=1800 hrs/week (18) | | | | | | | |
|--------------|------------------------------------------------------|---|----------------------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2E1 3L * | 5 | 5 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 345 | 621 |
| \checkmark | | | 1 | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 5 | 1 | LED= 28W, Type=Retrofit | | 28 | 140 | 252 |
| \checkmark | 28W DLC Premium | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|--------------|----------------|----------|----------------------|
| Xcel Rebate | 205.00 W | 369.0 kWh/yr | \$1,242.06 | \$146.06 | ☑ \$375/kW □ 75% Cap |
| Calculation | | | | | \$0.19/kWh |

| F: Ro | F: Rooms 100-120 Schedule=5x16 (4171hrs/yr) | | | | | | | |
|--------------|----------------------------------------------------|----------------------------------------|---|------------------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2E1 3L * | 4 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 69 | 276 | 1,151 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Fixture 38W | 4 | 1 | LED= 38W, Type=Fixture | | 38 | 152 | 634 |
| \checkmark | Non-DLC | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 124.00 W | 517.2 kWh/yr | \$927.40 | \$76.52 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| F: Ro | F: Rooms 100-120 | | | Schedule=5x16 (4171hrs/yr) | Schedule=5x16 (4171hrs/yr) | | | | |
|--------------|-------------------------|---|---|------------------------------------|----------------------------|----|-----|-------|--|
| OLD: | T8 4' 25W E3 3L * | 4 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 252 | 1,051 | |
| \checkmark | | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 3L- | 4 | 3 | LED= 12W, Type=Linear-T8-Bypass-4' | | 36 | 144 | 601 | |
| \checkmark | Bypass | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 108.00 W | 450.5 kWh/yr | \$397.87 | \$66.65 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| F: Ro | F: Rooms 100-120 Schedule=1800 hrs/week | | | | | | | | |
|--------------|-----------------------------------------|-----|-----------------------------------------------------|-----------------------------------|---|--|----|-------|--------|
| OLD: | T8 4' 25W E2E1 3L * | 120 | $2 W06612 = F25T8 \; 4' \; 25W, \; ELC-2 \; (43W)$ | | | | 69 | 8,280 | 14,904 |
| \checkmark | | | | | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W |) | | | | |
| NEW: | LED Troffer 2x4 28W w/ Step- | 120 | 1 | LED= 28W, Type=Retrofit | | | 28 | 3,360 | 6,048 |
| \checkmark | Dimming Driver DLC | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|------------|------------------------------------|
| Xcel Rebate Calculation | 4,920.00 W | 8,856.0 kWh/yr | \$22,896.43 | \$2,804.40 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| F: Ro | F: Rooms 100-120 | | | Schedule=5x16 (4171hrs/yr) | | | | |
|--------------|------------------------------|---|--------------|----------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E3 3L * | 2 | 3 W06616 = F | 25T8 4' 25W, ELC-3 (63W) | | 63 | 126 | 526 |
| \checkmark | | | <u>.</u> | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 2 | 1 LED=28W, | Type=Retrofit | | 28 | 56 | 234 |
| \checkmark | 28W DLC Premium | | <u>.</u> | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 70.00 W | 292.0 kWh/yr | \$492.16 | \$80.99 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| F: Ro | F: Rooms 100-120 Schedule=1800 hrs/week (18) | | | | | | | |
|--------------|------------------------------------------------------|----------------------------------------|---|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2E1 3L * | 5 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 69 | 345 | 621 |
| \checkmark | | | - | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 5 | 1 | LED= 28W, Type=Retrofit | | 28 | 140 | 252 |
| \checkmark | 28W DLC Premium | | 1 | | | | | |

| Watt Savin | gs kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------------------------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate 205.00 W Calculation | 369.0 kWh/yr | \$1,242.06 | \$146.06 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| F: Ro | F: Rooms 100-120 Schedule=3900 hrs/week (39) | | | | | | | |
|--------------|--------------------------------------------------|---|-----------------------------------------------|------------------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2E1 3L * | 9 | 9 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 621 | 2,422 |
| \checkmark | | | • | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 9 | 1 | LED= 19W, Type=Retrofit | | 19 | 171 | 667 |
| \checkmark | 19W DLC Premium | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 450.00 W | 1,755.0 kWh/yr | \$2,235.71 | \$497.81 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| F: Ro | F: Rooms 100-120 Schedule=5x16 (4171hrs/yr) | | | | | | | |
|--------------|-----------------------------------------------------|----|--------------------------------------|------------------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2E1 3L * | 12 | 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 69 | 828 | 3,454 |
| \checkmark | | | | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 28W w/ Step- | 12 | 1 | LED= 28W, Type=Retrofit | | 28 | 336 | 1,401 |
| \checkmark | Dimming Driver DLC | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 492.00 W | 2,052.1 kWh/yr | \$2,289.65 | \$455.42 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| F: Ro | ooms 100-120 | Schedule=3900 hrs/week (3900hrs/yr) | | | | | | |
|--------------|------------------------------|-------------------------------------|--------------|--------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2 2L * | 4 | 2 W06612 = F | 25T8 4' 25W, ELC-2 (43W) | | 43 | 172 | 671 |
| \checkmark | | | <u>.</u> | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 4 | 1 LED=28W, | Type=Retrofit | | 28 | 112 | 437 |
| \checkmark | 28W DLC Premium | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 60.00 W | 234.0 kWh/yr | \$982.13 | \$66.38 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| G: R | G: Restrooms (All) Schedule=3900 hrs/week (39 | | | | 00hrs/yr) |) | | |
|--------------|-----------------------------------------------|---|---|------------------------------------|-----------|------|------|-----|
| OLD: | T8 4' 25W E2 2L * | 1 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 43 | 168 |
| \checkmark | | | | | | | | |
| NEW: | LED Wrap 4' Fixture 26.8W | 1 | 1 | LED= 26.8W, Type=Fixture | | 26.8 | 26.8 | 105 |
| \checkmark | DLC | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 16.20 W | 63.2 kWh/yr | \$233.87 | \$14.34 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |
| Calculation | 16.20 W | 63.2 kWh/yr | \$233.87 | \$14.34 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| G: R | G: Restrooms (All) | | | Schedule=1800 hrs/week (18 | Schedule=1800 hrs/week (1800hrs/yr) | | | | | |
|--------------|-------------------------|----|---|------------------------------------|-------------------------------------|----|-------|-------|--|--|
| OLD: | T8 4' 25W E2 2L * | 25 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 1,075 | 1,935 | | |
| \checkmark | | | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 25 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 600 | 1,080 | | |
| \checkmark | Bypass | | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 475.00 W | 855.0 kWh/yr | \$1,932.84 | \$180.50 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |
| | | | | | |

| G: R | G: Restrooms (All) | | | Schedule=5x16 (4171hrs/yr) | | | | | |
|--------------|---------------------------|---|------------------|----------------------------|--------------------------|--|------|------|-----|
| OLD: | T8 4' 25W E2 2L * | 1 | 1 2 W06612 = F25 | | 25T8 4' 25W, ELC-2 (43W) | | 43 | 43 | 179 |
| \checkmark | | | | | | | | | |
| NEW: | LED Wrap 4' Fixture 26.8W | 1 | 1 | LED= 26.8W | , Type=Fixture | | 26.8 | 26.8 | 112 |
| \checkmark | DLC | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 16.20 W | 67.6 kWh/yr | \$233.87 | \$15.00 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| G: Restrooms (All) | | | | Schedule=1800 hrs/week (1800hrs/yr) | | | | | |
|--------------------|----------------------------------|---|--------------|-------------------------------------|--|------|-------|-----|--|
| OLD: | T8 4' 25W E2 2L * | 6 | 2 W06612 = F | 25T8 4' 25W, ELC-2 (43W) | | 43 | 258 | 464 | |
| \checkmark | | | • | | | | | | |
| NEW: | LED Wrap 4' Fixture 26.8W DLC | 6 | 1 LED= 26.8V | V, Type=Fixture | | 26.8 | 160.8 | 289 | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 97.20 W | 175.0 kWh/yr | \$1,403.20 | \$55.40 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| H: A | Wing Hallway A & B | Schedule=3900 hrs/week (39 | Schedule=3900 hrs/week (3900hrs/yr) | | | | | |
|--------------|-------------------------|----------------------------|-------------------------------------|------------------------------------|--|----|----|-----|
| OLD: | T8 3' 25W E2 2L * | 2 | 2 | W06480 = F25T8 3' 25W, ELC-2 (43W) | | 43 | 86 | 335 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 3' 12W 2L- | 2 | 2 | LED= 12W, Type=Linear-T8-Bypass-3' | | 24 | 48 | 187 |
| \checkmark | Bypass | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 38.00 W | 148.2 kWh/yr | \$154.62 | \$22.42 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| H: A | H: A Wing Hallway A & B Schedule=3900 hrs/week (39 | | | | | | | |
|--------------|----------------------------------------------------|---|---|------------------------------|--|------|------|-----|
| OLD: | CFLp 7W M2 2L | 4 | 2 | W02000 = CFT 7W (G23), EEM-2 | | 16.3 | 65.2 | 254 |
| \checkmark | | | 1 | (16.3W) | | | | |
| NEW: | LED PL-GX23 5.5W 2L-Bypass | 4 | 2 | LED= 5.5W, Type=PL | | 11 | 44 | 172 |
| \checkmark | | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|-------------|----------------|---------|----------------------|
| Xcel Rebate | 21.20 W | 82.7 kWh/yr | \$276.21 | \$12.51 | ☑ \$200/kW □ 60% Cap |
| Calculation | | | | | \$0.10/kWh |
| | | | | | |

| H: A | A Wing Hallway A & B Schedule=3900 hrs/week (39 | | | | | | | |
|--------------|-------------------------------------------------|----|---|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2 2L * | 26 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 1,118 | 4,360 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 26 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 624 | 2,434 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 494.00 W | 1,926.6 kWh/yr | \$2,010.16 | \$291.46 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| H: A Wing Hallway A & B Sched | | | | Schedule=3900 hrs/week (39 | chedule=3900 hrs/week (3900hrs/yr) | | | | |
|-------------------------------|------------------------------|----|---|------------------------------------|------------------------------------|----|-------|-------|--|
| OLD: | T8 4' 25W E2 2L * | 42 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 1,806 | 7,043 | |
| \checkmark | | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 42 | 1 | LED= 25W, Type=Retrofit | | 25 | 1,050 | 4,095 | |
| \checkmark | 25W DLC Premium | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 756.00 W | 2,948.4 kWh/yr | \$10,312.38 | \$836.33 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| I: B V | Wing Hallway A | Schedule=3900 hrs/week (3900hrs/yr) | | | | | | |
|--------------|-------------------------|-------------------------------------|--------------|--------------------------|--|----|----|-----|
| OLD: | T8 3' 25W E2 2L * | 1 | 2 W06480 = F | 25T8 3' 25W, ELC-2 (43W) | | 43 | 43 | 168 |
| \checkmark | | | <u>.</u> | | | | | |
| NEW: | LED LinearT8 3' 12W 2L- | 1 | 2 LED= 12W, | Type=Linear-T8-Bypass-3' | | 24 | 24 | 94 |
| \checkmark | Bypass | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 19.00 W | 74.1 kWh/yr | \$77.32 | \$11.21 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| I: B V | Wing Hallway A | Schedule=3900 hrs/week (39 | 00hrs/yr) | | | | | |
|--------------|-------------------------|----------------------------|-----------|------------------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2 2L * | 16 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 688 | 2,683 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 16 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 384 | 1,498 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 304.00 W | 1,185.6 kWh/yr | \$1,237.02 | \$179.36 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| I: B V | I: B Wing Hallway A Schedule=3900 hrs/week (39 | | | | | | | |
|--------------|------------------------------------------------|---|----------------------------------------|-------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2 2L * | 7 | 7 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 301 | 1,174 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 7 | 1 | LED= 25W, Type=Retrofit | | 25 | 175 | 683 |
| \checkmark | 25W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------|
| Xcel Rebate Calculation | 126.00 W | 491.4 kWh/yr | \$1,718.73 | \$139.39 | ☑ \$375/kW □ 75% Cap |
| | | | | | \$0.1 <i>9/</i> K W II |

| J: B | B Wing Hallway B Schedule=3900 hrs/week (39 | | | | | | | |
|--------------|---------------------------------------------|---|---|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2 2L * | 5 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 215 | 839 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 5 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 120 | 468 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 95.00 W | 370.5 kWh/yr | \$386.56 | \$56.05 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| J: B | J: B Wing Hallway B | | | Schedule=3900 hrs/week (39 | Schedule=3900 hrs/week (3900hrs/yr) | | | | |
|--------------|-------------------------|---|---|------------------------------------|-------------------------------------|----|-----|-----|--|
| OLD: | T8 4' 25W E3 3L * | 2 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 126 | 491 | |
| \checkmark | | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 3L- | 2 | 3 | LED= 12W, Type=Linear-T8-Bypass-4' | | 36 | 72 | 281 | |
| \checkmark | Bypass | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 54.00 W | 210.6 kWh/yr | \$198.93 | \$31.86 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| J: B | J: B Wing Hallway B Schedule=3900 hrs/week (3 | | | | 00hrs/yr) | | | |
|--------------|-----------------------------------------------|---|---|------------------------------|-----------|------|------|-----|
| OLD: | CFLp 7W M2 2L | 2 | 2 | W02000 = CFT 7W (G23), EEM-2 | | 16.3 | 32.6 | 127 |
| \checkmark | | | 1 | (16.3W) | | | | |
| NEW: | LED PL-GX23 5.5W 2L-Bypass | 2 | 2 | LED= 5.5W, Type=PL | | 11 | 22 | 86 |
| \checkmark | | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|--------|------------------------------------|
| Xcel Rebate Calculation | 10.60 W | 41.3 kWh/yr | \$138.10 | \$6.25 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| J: B | B Wing Hallway B Schedule=3900 hrs/week (3) | | | | | | | |
|-----------|-------------------------------------------------|----|---|------------------------------------|--|----|-------|-------|
| OLD: ☑ | T8 4' 25W E2 2L * | 26 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 1,118 | 4,360 |
| NEW: | LED Troffer 2x4 Retrofit Kit 25W DLC Premium | 26 | 1 | LED= 25W, Type=Retrofit | | 25 | 650 | 2,535 |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 468.00 W | 1,825.2 kWh/yr | \$6,383.85 | \$517.73 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |
| | | | | | |

| K: M | K: Media Center Schedule | | | | =1800 hrs/week (1800hrs/yr) | | | | |
|--------------|--------------------------|---|---|------------------------------------|-----------------------------|----|----|-----|--|
| OLD: | T8 3' 25W E2 2L * | 2 | 2 | W06480 = F25T8 3' 25W, ELC-2 (43W) | | 43 | 86 | 155 | |
| \checkmark | | | | | | | | | |
| NEW: | LED LinearT8 3' 12W 2L- | 2 | 2 | LED= 12W, Type=Linear-T8-Bypass-3' | | 24 | 48 | 86 | |
| \checkmark | Bypass | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|-------------|----------------|---------|----------------------|
| Xcel Rebate | 38.00 W | 68.4 kWh/yr | \$154.62 | \$14.44 | ☑ \$200/kW □ 60% Cap |
| Calculation | | | | | \$0.10/kWh |
| | | | | | |

| K: M | K: Media Center Schedule=1800 hrs/week (18 | | | | | | | |
|--------------|--------------------------------------------|---|----------------------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2 2L * | 4 | 4 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 43 | 172 | 310 |
| \checkmark | | | L | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 4 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 96 | 173 |
| \checkmark | Bypass | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 76.00 W | 136.8 kWh/yr | \$309.26 | \$28.88 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| K: M | edia Center | Schedule=1800 hrs/week (18 | Schedule=1800 hrs/week (1800hrs/yr) | | | | | |
|--------------|------------------------------|----------------------------|-------------------------------------|------------------------------------|--|----|----|----|
| OLD: | T8 2' 17 E2 2L-Exist* | 1 | 2 | W06160 = F17T8 2' 17W, ELC-2 (31W) | | 31 | 31 | 56 |
| \checkmark | | | L | | | | | |
| NEW: | LED LinearT8 2' 9W 2L-Bypass | 1 | 2 | LED= 9W, Type=Linear-T8-Bypass-2' | | 18 | 18 | 32 |
| \checkmark | | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|--------|------------------------------------|
| Xcel Rebate Calculation | 13.00 W | 23.4 kWh/yr | \$70.12 | \$4.94 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| K: M | edia Center | Schedule=1800 hrs/week (1800hrs/yr) | | | | | | |
|-----------|-------------------------------------------------|-------------------------------------|--------------|--------------------------|--|----|-------|-------|
| OLD: ☑ | T8 4' 25W E2 2L * | 31 | 2 W06612 = F | 25T8 4' 25W, ELC-2 (43W) | | 43 | 1,333 | 2,399 |
| NEW: | LED Troffer 2x4 Retrofit Kit 28W DLC Premium | 31 | 1 LED= 28W, | Type=Retrofit | | 28 | 868 | 1,562 |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 465.00 W | 837.0 kWh/yr | \$7,611.52 | \$331.31 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| L: Ro | L: Rooms 120-140 Schedule=5x01 (261hrs/yr) | | | | | | | |
|--------------|--------------------------------------------|---|------------------------------------|------------------|--|----|----|----|
| OLD: | CFLp 26W E2 2L | 1 | 1 2 W02640 = CFQ 26W (G24D), ELC-2 | | | 51 | 51 | 13 |
| \checkmark | | | | (51W) | | | | |
| NEW: | LED 9W 2L PL Ballast Bypass | 1 | 2 | LED= 9W, Type=PL | | 18 | 18 | 5 |
| \checkmark | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|--------|------------------------------------|
| Xcel Rebate Calculation | 33.00 W | 8.6 kWh/yr | \$80.58 | \$7.46 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |
| Calculation | | | | | \$0.10/kWh |

| L: Ro | L: Rooms 120-140 Schedule=5x01 (261hrs/yr) | | | | | | | |
|--------------|--------------------------------------------|---|---|------------------------------------|--|----|----|----|
| OLD: | T8 4' 25W E2 2L * | 1 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 43 | 11 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 1 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 24 | 6 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|-------------|----------------|--------|----------------------|
| Xcel Rebate | 19.00 W | 5.0 kWh/yr | \$77.32 | \$4.30 | ☑ \$200/kW □ 60% Cap |
| Calculation | | | | | \$0.10/kWh |
| | | | | | |

| L: R | ooms 120-140 | 00hrs/yr) | | | | | | |
|--------------|-----------------------------|-----------|------------------------------------------------|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2E1 3L * | 44 | 44 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 69 | 3,036 | 5,465 |
| \checkmark | | | 1 | | | | | |
| | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | | |
| OLD: | T8 4' 25W E3 3L * | 2 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 126 | 227 |
| \checkmark | | | 1 | | | | | |
| NEW: | LED Troffer 2x4 Fixture 38W | 46 | 1 | LED= 38W, Type=Fixture | | 38 | 1,748 | 3,146 |
| \checkmark | Non-DLC | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|----------------|----------------|------------|----------------------|
| Xcel Rebate | 1,414.00 W | 2,545.2 kWh/yr | \$10,660.45 | \$1,007.48 | ☑ \$375/kW □ 75% Cap |
| Calculation | | | | | \$0.19/kWh |
| | | | | | |

| L: Re | ooms 120-140 | Schedule=1800 hrs/week (180 | le=1800 hrs/week (1800hrs/yr) | | | | | |
|--------------|----------------------------------------|-----------------------------|-------------------------------|--------------------------|--|----|-----|-----|
| OLD: | T8 3' 25W E2 2L * | 10 | 2 W06480 = F | 25T8 3' 25W, ELC-2 (43W) | | 43 | 430 | 774 |
| \checkmark | | | <u>.</u> | | | | | |
| NEW: | LED Lightbar 3' Fixture 14W Non-DLC | 10 | 1 LED=14W, | Type=Fixture | | 14 | 140 | 252 |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 290.00 W | 522.0 kWh/yr | \$3,113.52 | \$110.20 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| L: Ro | ooms 120-140 | 00hrs/yr) |) | | | | | |
|--------------|-------------------------------|----------------------------------------|---|------------------------------------|--|------|-----|-----|
| OLD: | T8 4' 25W E3 10L * | 2 8 W06620 = F25T8 4' 25W, ELC-4 (85W) | | | | 213 | 426 | 767 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | |
| NEW: | LED Lightbar 4' Fixture 19.9W | 10 | 1 | LED= 19.9W, Type=Fixture | | 19.9 | 199 | 358 |
| \checkmark | DLC Premium | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 227.00 W | 408.6 kWh/yr | \$3,824.31 | \$161.74 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| L: Ro | L: Rooms 120-140 Schedule=1800 hrs/week (1 | | | | | | | |
|--------------|--------------------------------------------|---|---|--------------------------------|--|----|----|----|
| OLD: | CFLp 26W E2 2L | 1 | 2 | W02640 = CFQ 26W (G24D), ELC-2 | | 51 | 51 | 92 |
| \checkmark | | | | (51W) | | | | |
| NEW: | LED Can Hardwired Retrofit | 1 | 1 | LED= 9W, Type=Recessed Can | | 9 | 9 | 16 |
| \checkmark | Kit 8'' 9W | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 42.00 W | 75.6 kWh/yr | \$170.59 | \$15.96 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |
| | | | | | |

| L: Ro | L: Rooms 120-140 Schedule=1800 hrs/week (180 | | | | | | | |
|--------------|----------------------------------------------|----|--------------------------------------|--------------------------|--|------|-------|-------|
| OLD: | T8 4' 25W E2 2L * | 21 | 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 43 | 903 | 1,625 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 4 | 4 1 LED= 28W, Type=Retrofit | | | 28 | 112 | 202 |
| \checkmark | 28W DLC Premium | | L | | | | | |
| NEW: | LED Lightbar 4' Fixture 19.9W | 17 | 1 | LED= 19.9W, Type=Fixture | | 19.9 | 338.3 | 609 |
| \checkmark | DLC Premium | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|--------------|----------------|----------|----------------------|
| Xcel Rebate | 452.70 W | 814.9 kWh/yr | \$7,499.30 | \$322.55 | ☑ \$375/kW □ 75% Cap |
| Calculation | | | | | \$0.19/kWh |
| | | | | | |

| L: Ro | L: Rooms 120-140 Schedule=1800 hrs/week (180 | | | | | | | |
|--------------|----------------------------------------------|------------------------------------------------|---|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2E1 3L * | 39 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 69 | 2,691 | 4,844 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 28W w/ Step- | 39 | 1 | LED= 28W, Type=Retrofit | | 28 | 1,092 | 1,966 |
| \checkmark | Dimming Driver DLC | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 1,599.00 W | 2,878.2 kWh/yr | \$7,441.34 | \$911.43 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| L: R | ooms 120-140 | 00hrs/yr) | | | | | | |
|--------------|------------------------------|-----------|------------------------------------|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2E1 3L * | 2 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 69 | 138 | 248 |
| \checkmark | | | | | | | | |
| | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | | |
| OLD: | T8 4' 25W E3 3L * | 41 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 2,583 | 4,649 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 43 | 1 | LED= 28W, Type=Retrofit | | 28 | 1,204 | 2,167 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|------------|------------------------------------|
| Xcel Rebate Calculation | 1,517.00 W | 2,730.6 kWh/yr | \$10,586.22 | \$1,080.86 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| M: Se | M: Server Room Schedule=5x01 (261hrs/yr) | | | | | | | |
|--------------|------------------------------------------|---|---|------------------------------------|--|----|----|----|
| OLD: | T8 4' 25 E4-4L-Exist* | 1 | 4 | W06620 = F25T8 4' 25W, ELC-4 (85W) | | 85 | 85 | 22 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 4L- | 1 | 4 | LED= 12W, Type=Linear-T8-Bypass-4' | | 48 | 48 | 13 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|--------|------------------------------------|
| Xcel Rebate Calculation | 37.00 W | 9.7 kWh/yr | \$134.15 | \$8.37 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| N: Rooms 141-150 | | | | Schedule=5x01 (261hrs/yr) | | | | |
|------------------|------------------------------|---|---|------------------------------------|--|----|-----|----|
| OLD: | T8 4' 25W E3 3L * | 4 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 252 | 66 |
| \checkmark | | | 1 | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 4 | 1 | LED= 28W, Type=Retrofit | | 28 | 112 | 29 |
| \checkmark | 28W DLC Premium | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type | | | |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|--|--|--|
| Xcel Rebate Calculation | 140.00 W | 36.5 kWh/yr | \$984.33 | \$59.35 | ☑ \$375/kW □ 75% Cap \$0.19/kWh | | | |
| N: Re | N: Rooms 141-150 Schedule=1800 hrs/week (18) | | | | | | | |
|--------------|------------------------------------------------------|---|-----------------------------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2E1 3L * | 8 | 8 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 552 | 994 |
| \checkmark | | | | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Fixture 38W | 8 | 1 | LED= 38W, Type=Fixture | | 38 | 304 | 547 |
| \checkmark | Non-DLC | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 248.00 W | 446.4 kWh/yr | \$1,854.80 | \$94.24 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| N: R | N: Rooms 141-150 Schedule=1800 hrs/week | | | | | | | |
|--------------|-----------------------------------------|----|------------------------------------------------|------------------------------------|--|----|-------|--------|
| OLD: | T8 4' 25W E2E1 3L * | 96 | 96 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 6,624 | 11,923 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 28W w/ Step- | 96 | 1 LED= 28W, Type=Retrofit | | | 28 | 2,688 | 4,838 |
| \checkmark | Dimming Driver DLC | | l | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|------------|------------------------------------|
| Xcel Rebate Calculation | 3,936.00 W | 7,084.8 kWh/yr | \$18,317.15 | \$2,243.52 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |
| | | | | | |

| N: Re | Schedule=1800 hrs/week (1800hrs/yr) | | | | | | | |
|--------------|-------------------------------------|---|-----------------------------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2E1 3L * | 3 | 3 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 207 | 373 |
| \checkmark | | | | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 3 | 1 | LED= 28W, Type=Retrofit | | 28 | 84 | 151 |
| \checkmark | 28W DLC Premium | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 123.00 W | 221.4 kWh/yr | \$745.24 | \$87.64 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| 0: C | O: C Wing Hallway A Schedule=3900 hrs/v | | | | | | | |
|--------------|-----------------------------------------|---|---|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2 2L * | 3 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 129 | 503 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 3 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 72 | 281 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|--------------|----------------|---------|----------------------|
| Xcel Rebate | 57.00 W | 222.3 kWh/yr | \$231.94 | \$33.63 | ☑ \$200/kW □ 60% Cap |
| Calculation | | | | | \$0.10/kWh |

| 0: C | O: C Wing Hallway A Schedule=3900 hrs/v | | | | 00hrs/yr) | | | |
|--------------|-----------------------------------------|---|----------------------------------|---------|-----------|------|------|-----|
| OLD: | CFLp 7W M2 2L | 2 | 2 2 W02000 = CFT 7W (G23), EEM-2 | | | 16.3 | 32.6 | 127 |
| \checkmark | | | (16.3W) | | | | | |
| NEW: | LED PL-GX23 5.5W 2L-Bypass | 2 | 2 LED= 5.5W, | Type=PL | | 11 | 22 | 86 |
| \checkmark | | | <u>.</u> | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|--------|------------------------------------|
| Xcel Rebate Calculation | 10.60 W | 41.3 kWh/yr | \$138.10 | \$6.25 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| O: C | Wing Hallway A | Schedule=3900 hrs/week (39 | chedule=3900 hrs/week (3900hrs/yr) | | | | | |
|-------------|-------------------------------------------------|----------------------------|------------------------------------|------------------------------------|--|----|-----|-------|
| OLD: | T8 4' 25W E2 2L * | 15 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 645 | 2,516 |
| NEW: | LED Troffer 2x4 Retrofit Kit 25W DLC Premium | 15 | 1 | LED= 25W, Type=Retrofit | | 25 | 375 | 1,463 |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 270.00 W | 1,053.0 kWh/yr | \$3,683.00 | \$298.69 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| P: Sh | P: Showers Schedule=5x01 (261hrs/yr) | | | | | | |
|--------------|--------------------------------------|---|---|--------------------------------|----|-----|----|
| OLD: | CFLp 26W E2 2L | 4 | 2 | W02640 = CFQ 26W (G24D), ELC-2 | 51 | 204 | 53 |
| \checkmark | | | 1 | (51W) | | | |
| NEW: | LED 9W 2L PL Ballast Bypass | 4 | 2 | LED= 9W, Type=PL | 18 | 72 | 19 |
| \checkmark | | | 1 | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|-------------|----------------|---------|----------------------|
| Xcel Rebate | 132.00 W | 34.5 kWh/yr | \$322.29 | \$29.85 | ☑ \$200/kW □ 60% Cap |
| Calculation | | | | | \$0.10/kWh |
| | | | | | |

| Q: R | Q: Rooms 156, 157, 158, 160 Schedule=5x01 (261hrs/yr) | | | | | | | |
|--------------|--------------------------------------------------------------|---|---|------------------------------------|--|----|-----|----|
| OLD: | T8 4' 25W E3 3L * | 4 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 252 | 66 |
| \checkmark | | | L | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 4 | 1 | LED= 28W, Type=Retrofit | | 28 | 112 | 29 |
| \checkmark | 28W DLC Premium | | L | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 140.00 W | 36.5 kWh/yr | \$984.33 | \$59.35 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| Q: Rooms 156, 157, 158, 160 | | | | Schedule=5x01 (261hrs/yr) | | | |
|-----------------------------|---------------------------|---|---|------------------------------------|------|------|----|
| OLD: | T8 4' 25W E2 2L * | 1 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | 43 | 43 | 11 |
| \checkmark | | | L | | | | |
| NEW: | LED Wrap 4' Fixture 26.8W | 1 | 1 | LED= 26.8W, Type=Fixture | 26.8 | 26.8 | 7 |
| \checkmark | DLC | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|--------|------------------------------------|
| Xcel Rebate Calculation | 16.20 W | 4.2 kWh/yr | \$233.87 | \$5.49 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| Q: Rooms 156, 157, 158, 160 Schedule=180 | | | | | 00hrs/yr) | | | |
|-------------------------------------------------|------------------------------|---|---|------------------------------------|-----------|----|-----|-----|
| OLD: | T8 4' 25W E3 3L * | 7 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 441 | 794 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 7 | 1 | LED= 28W, Type=Retrofit | | 28 | 196 | 353 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 245.00 W | 441.0 kWh/yr | \$1,722.58 | \$174.56 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |
| | | | | | |

| Q: R | Q: Rooms 156, 157, 158, 160 Schedule=5x16 (4171hrs/ | | | | | | |
|--------------|------------------------------------------------------------|---|--------------|--------------------------|----|----|-----|
| OLD: | T8 4' 25W E3 3L * | 1 | 3 W06616 = F | 25T8 4' 25W, ELC-3 (63W) | 63 | 63 | 263 |
| \checkmark | | | - | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 1 | 1 LED=28W, | Type=Retrofit | 28 | 28 | 117 |
| \checkmark | 28W DLC Premium | | 4 | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 35.00 W | 146.0 kWh/yr | \$246.08 | \$40.50 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| Q: R | Q: Rooms 156, 157, 158, 160 Schedule=1800 hrs/week (1 | | | | | | | |
|--------------|-------------------------------------------------------|----|------------------------------------------------|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2E1 3L * | 62 | 62 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 69 | 4,278 | 7,700 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 28W w/ Step- | 62 | 1 | LED= 28W, Type=Retrofit | | 28 | 1,736 | 3,125 |
| \checkmark | Dimming Driver DLC | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|------------|------------------------------------|
| Xcel Rebate Calculation | 2,542.00 W | 4,575.6 kWh/yr | \$11,829.82 | \$1,448.94 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| R: R | ooms 161 & 163 | Schedule=5x16 (4171hrs/yr) | Schedule=5x16 (4171hrs/yr) | | | | | |
|--------------|-------------------------|----------------------------|----------------------------|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2 2L * | 30 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 43 | 1,290 | 5,381 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 30 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | | 24 | 720 | 3,003 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings kWh Savings | | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------------------|----------------|----------------|----------|----------------------|
| Xcel Rebate | 570.00 W | 2,377.5 kWh/yr | \$2,319.42 | \$351.75 | ☑ \$200/kW □ 60% Cap |
| Calculation | | | | | \$0.10/kWh |
| | | | | | |

| R: R | ooms 161 & 163 | Schedule=5x16 (4171hrs/yr) | Schedule=5x16 (4171hrs/yr) | | | | | |
|--------------|------------------------------|----------------------------|----------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E3 3L * | 2 | 3 | W06616 = F25T8 4' 25W, ELC-3 (63W) | | 63 | 126 | 526 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 2 | 1 | LED= 28W, Type=Retrofit | | 28 | 56 | 234 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|---------|----------------------|
| Xcel Rebate Calculation | 70.00 W | 292.0 kWh/yr | \$492.16 | \$80.99 | ☑ \$375/kW □ 75% Cap |
| | | | | | \$0.17/KWII |

| S: Ro | ooms 154, 159, & 162 | Schedule=5x01 (261hrs/yr) | | | | | |
|--------------|------------------------------|---------------------------|--------------|--------------------------|----|-----|----|
| OLD: | T8 4' 25W E2 2L * | 3 | 2 W06612 = F | 25T8 4' 25W, ELC-2 (43W) | 43 | 129 | 34 |
| \checkmark | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 3 | 1 LED= 28W, | Type=Retrofit | 28 | 84 | 22 |
| \checkmark | 28W DLC Premium | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 45.00 W | 11.7 kWh/yr | \$736.60 | \$19.08 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| S: Ro | S: Rooms 154, 159, & 162 Schedule=5x01 (261hrs/yr) | | | | | | | |
|--------------|----------------------------------------------------|----------------------------------------|---|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2E1 3L * | 6 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 69 | 414 | 108 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 6 | 1 | LED= 28W, Type=Retrofit | | 28 | 168 | 44 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 246.00 W | 64.2 kWh/yr | \$1,490.47 | \$104.29 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| S: Rooms 154, 159, & 162 Schedule=3900 hrs/week | | | | Schedule=3900 hrs/week (39 | 00hrs/yr) | | | |
|-------------------------------------------------|------------------------------|----|------------------------------------------------|----------------------------|-----------|----|-----|-------|
| OLD: | T8 4' 25W E2 2L * | 13 | 13 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 43 | 559 | 2,180 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 13 | 1 | LED= 25W, Type=Retrofit | | 25 | 325 | 1,268 |
| \checkmark | 25W DLC Premium | | • | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 234.00 W | 912.6 kWh/yr | \$3,191.93 | \$258.86 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| S: Ro | S: Rooms 154, 159, & 162 Schedule=5x16 (4171hrs/yr) | | | | | | | |
|--------------|-----------------------------------------------------|----|------------------------------------------------|------------------------------------|--|----|-------|-------|
| OLD: | T8 4' 25W E2E1 3L * | 20 | 20 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 1,380 | 5,756 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: ☑ | LED Troffer 2x4 Retrofit Kit 28W DLC Premium | 20 | 1 | LED= 28W, Type=Retrofit | | 28 | 560 | 2,336 |
| | | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|----------------|----------------|----------|----------------------|
| Xcel Rebate | 820.00 W | 3,420.2 kWh/yr | \$4,968.26 | \$948.79 | ☑ \$375/kW □ 75% Cap |
| Calculation | | | | | \$0.19/kWh |
| | | | | | |

| S: Ro | S: Rooms 154, 159, & 162 Schedule=5x16 (4171hrs/yr) | | | | | | | |
|--------------|-----------------------------------------------------|------------------------------------------------|---|------------------------------------|--|----|-------|--------|
| OLD: | T8 4' 25W E2E1 3L * | 46 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 69 | 3,174 | 13,239 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 28W w/ Step- | 46 | 1 | LED= 28W, Type=Retrofit | | 28 | 1,288 | 5,372 |
| \checkmark | Dimming Driver DLC | | l | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|------------|------------------------------------|
| Xcel Rebate Calculation | 1,886.00 W | 7,866.5 kWh/yr | \$8,776.96 | \$1,745.78 | ☑ \$300/kW □ 75% Cap \$0.15/kWh |

| T: Re | T: Room 153-Music Room Schedule=3900 hrs/week (3) | | | | | | | |
|--------------|-------------------------------------------------------|---|----------------------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2E1 3L * | 2 | 2 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | 69 | 138 | 538 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 2 | 1 | LED= 28W, Type=Retrofit | | 28 | 56 | 218 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|--------------|----------------|---------|----------------------|
| Xcel Rebate | 82.00 W | 319.8 kWh/yr | \$496.82 | \$90.71 | ☑ \$375/kW □ 75% Cap |
| Calculation | | | | | \$0.19/kWh |
| | | | | | |

| T: Ro | oom 153-Music Room | Schedule=1800 hrs/week (18 | 00hrs/yr |) | | | | |
|--------------|------------------------------|----------------------------|------------------------------------------------|------------------------------------|--|-------|--------|-------|
| OLD: | T8 4' 25W E2E1 3L * | 2 | 2 | W06612 = F25T8 4' 25W, ELC-2 (43W) | | 69 | 138 | 248 |
| \checkmark | | | | | | | | |
| | Ballast #2 | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| OLD: | T8 4' 25W E3 3L * | 19 | 19 3 W06616 = F25T8 4' 25W, ELC-3 (63W) | | | | 1,197 | 2,155 |
| \checkmark | | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 15 | 15 1 LED= 36.49W, Type=Retrofit | | | 36.49 | 547.35 | 985 |
| \checkmark | 36.49W DLC Premium | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 4 | 4 1 LED= 30.28W, Type=Retrofit | | | 30.28 | 121.12 | 218 |
| \checkmark | 30.28W DLC Premium | | | | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 2 | 2 1 LED= 28W, Type=Retrofit | | | 28 | 56 | 101 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 610.53 W | 1,099.0 kWh/yr | \$5,172.40 | \$435.00 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| | U: Room 151-Gym, Storage, Office Schedule=5x12 (3128hrs/y | | | | | | | |
|---|-----------------------------------------------------------|------------------------------|----|-----------------------------------------------|----------------------------|--------|----------|-------|
| (| OLD: | T8 4' 25W E2 NBF 6L * | 24 | 24 6 W09104 = F25ST8 4' 25W, ELC-2 NBF | | 130.5 | 3,132 | 9,797 |
| | \checkmark | | | | (HiPer) (43.5W) | | | |
|] | NEW: | LED High Bay Fixture 106.42W | 24 | 1 | LED= 106.42W, Type=Fixture | 106.42 | 2,554.08 | 7,989 |
| | \checkmark | DLC Premium | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|----------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 577.92 W | 1,807.7 kWh/yr | \$14,418.83 | \$889.07 | ☑ \$600/kW □ 75% Cap \$0.30/kWh |

| U: Ro | oom 151-Gym, Storage, Office | Schedule=5x01 (261hrs/yr) | | | | | | |
|--------------|------------------------------|---------------------------|---|------------|--------------------------|----|-----|----|
| OLD: | T8 4' 25W E2 2L * | 6 | 2 | W06612 = F | 25T8 4' 25W, ELC-2 (43W) | 43 | 258 | 67 |
| \checkmark | | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 6 | 2 | LED= 12W, | Type=Linear-T8-Bypass-4' | 24 | 144 | 38 |
| \checkmark | Bypass | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 114.00 W | 29.8 kWh/yr | \$463.88 | \$25.78 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| U: Re | U: Room 151-Gym, Storage, OfficeSchedule=5x16 (4171hrs/yr) | | | | | | | |
|--------------|------------------------------------------------------------|---|-----------------------------------------------|------------------------------------|--|----|-----|-----|
| OLD: | T8 4' 25W E2E1 3L * | 3 | 3 2 W06612 = F25T8 4' 25W, ELC-2 (43W) | | | | 207 | 863 |
| \checkmark | | | | | | | | |
| Ballast #2 | | | 1 | W06608 = F25T8 4' 25W, ELC-1 (26W) | | | | |
| NEW: | LED Troffer 2x4 Retrofit Kit | 3 | 1 | LED= 28W, Type=Retrofit | | 28 | 84 | 350 |
| \checkmark | 28W DLC Premium | | | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate Calculation | 123.00 W | 513.0 kWh/yr | \$745.24 | \$142.32 | ☑ \$375/kW □ 75% Cap \$0.19/kWh |

| V: Oi | l Room | | | Schedule=5x01 (261hrs/yr) | | | |
|--------------|-------------------|---|---------------|---------------------------|----|----|----|
| OLD: | CFL 23W-1L Spiral | 2 | 1 CFL-S=23W | , Type=Spiral | 23 | 46 | 12 |
| \checkmark | | | 1 | | | | |
| NEW: | LED 17W 1L A-Lamp | 2 | 1 LED= 17W, 7 | Гуре=А-Lamp | 17 | 34 | 9 |
| \checkmark | | | <u>.</u> | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|-------------|--------------|-------------|----------------|--------|----------------------|
| Xcel Rebate | 12.00 W | 3.1 kWh/yr | \$52.64 | \$2.17 | ☑ \$160/kW □ 50% Cap |
| Calculation | | | | | \$0.08/kWh |

| W: N | Iezzanine | | | Schedule=5x01 (261hrs/yr) | | | |
|--------------|-------------------------|----|---|------------------------------------|----|-------|-----|
| OLD: | T8 4' 32 E2-2L-Exist* | 37 | 2 | W07320 = F32T8 4' 32W, ELC-1 (32W) | 64 | 2,368 | 618 |
| \checkmark | | | | | | | |
| NEW: | LED LinearT8 4' 12W 2L- | 37 | 2 | LED= 12W, Type=Linear-T8-Bypass-4' | 24 | 888 | 232 |
| \checkmark | Bypass | | | | | | |

| N N | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|------------------------------|--------------|--------------|----------------|----------|------------------------------------|
| Xcel Rebate] Calculation | 1,480.00 W | 386.3 kWh/yr | \$2,946.83 | \$334.63 | ☑ \$200/kW □ 60% Cap \$0.10/kWh |

| W: N | lezzanine | | | Schedule=5x01 (261hrs/yr) | | | | |
|--------------|----------------------------|---|---|---------------------------|-----|------|-----|----|
| OLD: | INC A 060W 1L (EISA= INC A | 2 | 1 | INCAN= 60W, Type=A-Lamp | | 60 | 120 | 31 |
| \checkmark | 043W 1L) | | 1 | | EIS | A=43 | 86 | 22 |
| NEW: | LED 9W-1L A-Lamp | 2 | 1 | LED= 9W, Type=A-Lamp | | 9 | 18 | 5 |
| \checkmark | | | 1 | | | | | |

| | Watt Savings | kWh Savings | Installed Cost | Rebate | Rebate Calc Type |
|----------------------------|--------------|-------------|----------------|---------|------------------------------------|
| Xcel Rebate Calculation | 68.00 W | 17.7 kWh/yr | \$33.99 | \$12.30 | ☑ \$160/kW □ 50% Cap \$0.08/kWh |

Operating Schedules

| Schedule Name | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------------|----------------|----------|-----------|----------|----------|----------|----------|
| 1800 hrs/week | Start 4.9 hrs | 4.9 hrs | 4.9 hrs | 4.9 hrs | 4.9 hrs | 4.9 hrs | 4.9 hrs |
| 1800 hrs/yr | End | | | | | | |
| 3900 hrs/week | Start 10.7 hrs | 10.7 hrs | 10.7 hrs | 10.7 hrs | 10.7 hrs | 10.7 hrs | 10.7 hrs |
| 3900 hrs/yr | End | | | | | | |
| 5x01 | Start 1.0 hrs | 1.0 hrs | 1.0 hrs | 1.0 hrs | 1.0 hrs | | |
| 261 hrs/yr | End | | | | | | |
| 5x12 | Start 12.0 hrs | 12.0 hrs | 12.0 hrs | 12.0 hrs | 12.0 hrs | | |
| 3128 hrs/yr | End | | | | | | |
| 5x16 | Start 16.0 hrs | 16.0 hrs | 16.0 hrs | 16.0 hrs | 16.0 hrs | | |
| 4171 hrs/yr | End | | | | | | |
| Exterior | Start 12.0 hrs | 12.0 hrs | 12.0 hrs | 12.0 hrs | 12.0 hrs | 12.0 hrs | 12.0 hrs |
| 4380 hrs/yr | End | | | | | | |

Rebate Calculation Method

| Rebate Code | | | Rebate | kW Savings | kWh Savings |
|---------------------------------|----------|------------|-----------|------------|-------------|
| Exterior DLC Luminaire/Kit | \$0/kW | \$0.06/kWh | \$1839.86 | 0.0000 | 30,664 |
| | | [60% cap] | \$0.00 | 0.0000 | 0 |
| Exterior Non-DLC Luminaire/Kit | \$0/kW | \$0.05/kWh | \$111.91 | 0.0000 | 2,238 |
| | | [60% cap] | \$0.00 | 0.0000 | 0 |
| 2022 LED Tube Bonus | \$200/kW | \$0.10/kWh | \$1881.64 | 4.3900 | 10,036 |
| | | [60% cap] | \$0.00 | 0.0000 | 0 |
| 2022 DLC Premium Bonus | \$375/kW | \$0.19/kWh | \$9247.86 | 10.6812 | 27,959 |
| | | [75% cap] | \$0.00 | 0.0000 | 0 |
| Screw-In/LED Tube | \$160/kW | \$0.08/kWh | \$18.25 | 0.0880 | 52 |
| | | [50% cap] | \$122.78 | 0.6430 | 1,443 |
| 2022 DLC Bonus | \$300/kW | \$0.15/kWh | \$9699.72 | 15.5208 | 33,623 |
| | | [75% cap] | \$0.00 | 0.0000 | 0 |
| 2021 Non DLC Kit/Fixture | \$200/kW | \$0.10/kWh | \$359.24 | 0.9114 | 1,770 |
| | | [60% cap] | \$0.00 | 0.0000 | 0 |
| 2022 DLC Premium High Bay Bonus | \$600/kW | \$0.30/kWh | \$889.07 | 0.5779 | 1,808 |
| | | [75% cap] | \$0.00 | 0.0000 | 0 |

ONE-STOP EFFICIENCY SHOP® PROGRAM RULES AND REQUIREMENTS

The One-Stop Efficiency Shop® lighting efficiency program (One-Stop Efficiency Shop®), administered by Center for Energy and Environment ("CEE") and funded through Xcel Energy, offers cash rebates to eligible small business customers ("Participant") who purchase and install qualifying energy-efficient lighting products in existing buildings.

The intent of the One-Stop Efficiency Shop® operating as a Minnesota Conservation Improvement Program (CIP), is to incentivize Xcel Energy's customers to install energy efficient equipment earlier than they would have otherwise by defraying a portion of the cost of the retrofit. To ensure that the program operates as intended, the Participant must have a financial stake in the transaction and the Participant's Project Cost must be greater than zero to receive a One-Stop Efficiency Shop® rebate.

Participant Qualifications

One-Stop Efficiency Shop® rebates apply only to qualified Xcel Energy customers with a valid commercial electric account in Xcel Energy's Minnesota service territory that meet One-Stop Efficiency Shop® eligibility requirements. The Vendor or Participant must verify with a CEE consultant that an Xcel Energy account is eligible for One-Stop Efficiency Shop® rebates before committing to, purchasing equipment for or implementing a project. To determine if a business qualifies for the One-Stop Efficiency Shop® please contact CEE at (612) 244-2427.

Eligibility Requirements

1. Rebate items must be installed at the Xcel Energy electric account listed on the application.

2. All equipment must be new. Used or rebuilt equipment is not eligible for a rebate

3. All removed lighting equipment (lamps, ballasts and fixtures) must be properly recycled, and cannot be sold or reused at another location. Documentation may be required to ensure compliance with proper disposal of equipment.

4. Energy-efficient equipment must result in an electric load reduction.

5. Xcel Energy and CEE recommend Illuminating Engineering Society (IES) light levels. Participant is responsible for approval of final light levels.

6. Rebates are offered for interior lighting, exterior canopy lighting, soffit fixtures, wall pack fixtures, parking garage and parking lot lighting. Rebates will not be issued for street lighting. Most screw-in compact fluorescent lamps (CFLs) are not eligible for rebates.

7. Lamps or other equipment that have already been rebated through any other Xcel Energy rebate programs are ineligible for a rebate under the One-Stop Efficiency Shop®. This includes upstream programs that provide incentives to manufacturers, distributors and retailers to sell products at a discounted price.

8. CEE reserves the right to disallow a rebate if it determines, in its sole judgment, that the lighting technology is inappropriately applied or light levels are inadequate. Contact your CEE consultant to determine qualification of custom or

specialty lighting projects.

9. Equipment must be purchased, properly installed and fully operating prior to submitting an application for a rebate.

Vendor Responsibilities

10. The "Vendor" is any person or company that is consulting on the project, selling the project to the participant, completing the work and/or supplying the materials. Vendor is an independent contractor and not an agent or representative of Xcel Energy or CEE, has no authority to bind Xcel Energy or CEE, and is solely equipment and Participant's Project Cost is different than originally approved by responsible for sub-contractors the Vendor hires to do some or all of the work and/or supply materials.

11. The Vendor must clearly communicate to the Participant the purpose and requirements of the One-Stop Efficiency Shop®, including eligibility requirements for lighting rebates. The Vendor must involve the CEE consultant in communications with the Participant, and must keep the CEE consultant fully

informed regarding all details of the transaction.

12. Vendors are responsible for reviewing, signing and returning the Contractor Report to CEE before materials are ordered. By signing the Contractor Report, the Vendor represents and warrants that the transaction complies with these Rules and Requirements and that the project specifications in the Contractor Report are accurate, acceptable and will be installed as specified.

13. Any inaccuracies concerning project specifications must be reported immediately to a CEE consultant so they can be addressed, the rebate recalculated if necessary and a revised report issued to the Vendor and the Participant.

14. Vendor must contact a CEE consultant whenever there are changes to the project so that equipment eligibility can be confirmed and the rebate value can be re-calculated if necessary.

15. CEE will not be responsible for changes in the rebate value if the Vendor does not sign and return the Contractor Report, and report: inaccuracies in the Contractor Report; changes in the equipment to be installed; or changes in the project during construction.

Rebate Calculations

16. Rebate values are based on CEE's calculation of electric demand (KW) and energy (kWh) savings. Hours used for calculation of the kWh savings must be an accurate representation of the Participant's operating schedule.

17. Electric demand and energy savings are calculated using lighting efficiency baselines established by the Energy Independence and Security Act (EISA). EISA standards apply to most T12 and incandescent lighting technologies today, and will apply to other technologies as efficiency requirements continue to be phased in. 18. If an Xcel Energy lighting rebate was previously assigned to this account and the rebated lighting was subsequently converted to a less efficient lighting system, a One-Stop consultant must review the situation to determine the correct baseline energy use for calculating the rebate.

19. Rebates are based on the energy use of the equipment actually installed at the site and the Participant's Project Cost. Rebates will be recalculated if the final CEE.

20. Rebates cannot exceed 60 percent of the Participant's Project Cost, unless otherwise specified by the One-Stop Efficiency Shop®. The minimum rebate paid is \$5.00.

21. "Participant's Project Cost" means the Participant's financial obligation for the lighting retrofit based on the total project cost less any and all Deductions, regardless of when these Deductions are received.

A Minnesota Conservation Program (CIP) Offered By Center for Energy and Environment

Page 1 of 2

ONE-STOP EFFICIENCY SHOP® PROGRAM RULES AND REQUIREMENTS

22. "Deductions" means anything of value received by the Participant that reduces the Participant's actual out-of-pocket cost for the lighting retrofit including, but not limited to: labor or material donations; monetary donations; labor or material cost deductions; grants; awards, rebates; or any other assistance of monetary value provided, directly or indirectly, by the Vendor, its agents or representatives to reduce the Participant's actual financial obligation for the lighting project. 23. The following types of financial transactions are not allowed as methods of payment by the Participant for the lighting project: barter, in-kind donations and performance contracting.

24. All Deductions must be separately itemized on the final invoice submitted to CEE. The Participant's Project Cost must be greater than zero to receive a One-Stop Efficiency Shop® rebate.

Invoice

25. The Vendor must submit an accurate, complete and transparent final invoice for the completed lighting retrofit. All parties involved in the project, including the Participant and CEE, must have a clear understanding of the scope of work and associated project costs, including any Deductions that have been applied. 26. Invoice(s) submitted must include: (1) itemized quantity, manufacturer's make and model numbers for each material item, (2) a lump sum amount for both material and labor, and (3) grand total project cost. In some cases, original equipment manufacturer (OEM) specification sheets may be requested for verification or clarification.

27. The Vendor must provide the Participant an invoice that reflects the same financial information that is submitted to CEE, including any Deductions that have been applied.

Verification

28. CEE reserves the right to inspect Participant's facility(ies) for installation of materials listed on this rebate application and will need access to survey the installed project. Participant must keep a sample of any and all types of equipment removed for a period of three (3) months after receiving a rebate from Xcel Energy. If the inspection determines that Participant did not comply with these Rules and Requirements, any rebate received by Participant must be promptly returned to Xcel Energy.

29. Vendor agrees to promptly provide CEE with such additional documentation and information as may be necessary to verify compliance with these Rules and as proof that the Participant paid the amount reflected on the invoice. Rebates for that project will not be paid until all requested documentation and information is provided and verified.

Rebate Application and Payment

30. One-Stop Efficiency Shop® rules and rebate eligibility requirements are subject to change. It is the Participant's and Vendor's responsibility to verify with CEE that estimated rebates are still valid before committing to, purchasing equipment for or implementing a project. CEE will not pay a rebate for projects where the invoice is submitted more than 12 months after the start of the project. 31. Xcel Energy and CEE are not responsible for any lost, late, stolen, ineligible, illegible, misdirected or postage-due mail. All completed rebate applications and other submissions in connection with the One-Stop Efficiency Shop® become the property of Xcel Energy and CEE and will not be returned.

32. In cases of deferred payment, CEE reserves the right to process the rebate only when full payment is received by the Vendor from the Participant. All financed and alternate payment plans must be documented with detailed, legally obligating and signed contracts. CEE reserves the right to disallow any payment plan that its staff determines is not in compliance with the program design intent and rules. 33. Rebates will not be disbursed until the project is fully installed and verified. 34. The rebate check will be sent to the Participant (i.e., Xcel Energy account holder) listed on the rebate application, unless otherwise authorized by CEE. Xcel Energy will issue rebates in the form of checks, not utility bill credits. 35. Once completed paperwork is submitted and approved, rebate payments are usually made in 6 to 8 weeks.

Special Notices

36. Xcel Energy and CEE reserve the right to refuse payment or participation in the One-Stop Efficiency Shop® if the Participant or Vendor violates program design intent, rules and procedures. Xcel Energy and CEE are not liable for rebates promised to Participants as a result of a Vendor misrepresenting the program. 37. The One-Stop Efficiency Shop® is subject to 60 days notice of cancellation. The Participant and Vendor are responsible for checking with a CEE consultant to determine whether the program is still in effect and to verify program requirements.

38. CEE RESERVES THE RIGHT TO DISOUALIFY NON-COMPLIANT VENDORS FROM PARTICIPATION IN THE ONE-STOP EFFICIENCY SHOP®.

Disclaimers

Xcel Energy and CEE:

39. Do not endorse any particular vendor, manufacturer, product or system design by offering these rebates;

40. Will not be responsible for any tax liability imposed on the Participant as a result of the payment of rebates;

41. EXPRESSLY DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE WITH RESPECT TO ANY PRODUCTS, EQUIPMENT, MATERIAL OR WORKMANSHIP PROVIDED, SUPPLIED OR INSTALLED IN CONNECTION WITH THE ONE-STOP Requirements, such as copies of cancelled checks or other relevant receipts/records EFFICIENCY SHOP®. Warranties, if any, are between Participant and equipment manufacturer(s) and/or Vendors.

> 42. Are not responsible for the disposal of removed lighting equipment (lamps, ballasts and/or fixtures) replaced as a result of this program, when required for optimum lighting performance;

43. In no event shall be liable for any indirect, special, incidental, consequential or punitive damages arising out of or relating to administering the One-Stop Efficiency Shop®

44. Do not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under this program.

For more information, contact CEE at Phone: (612) 244-2427 Fax: (612) 335-5888. Mail To: Center for Energy and Environment 212 3rd Avenue North, Suite 560 Minneapolis, MN 55401



A Minnesota Conservation Improvement Program (CIP) Offered By Center for Energy and Environment

Page 2 of 2

ISD #256 Red Wing Schools District-wide LED Lighting Upgrade with 2022 Bonus Rebates

| | <u> </u> | | | | |
|------------------------------------------|---------------------|----------------------------|-----------------------|----------------|---------|
| School Name | Current Total Price | 2022 BONUS REBATE / CREDIT | Annual Energy Savings | NET PRICE | РАҮВАСК |
| Lighting Energy Study | \$30,297.12 | \$30,297.12 | | | |
| Prairie Island Arena | \$126,885.00 | \$17,948.23 | \$6,870.44 | \$108,936.77 | 15.86 |
| District Maintenance Shop | \$8,700.00 | \$225.00 | \$16.07 | \$8,475.00 | 527.38 |
| Twin Bluffs Middle School | \$453,000.00 | \$62,250.00 | \$12,669.84 | \$390,750.00 | 30.84 |
| Sunnyside Elementary School | \$159,901.00 | \$20,106.25 | \$8,390.04 | \$139,794.75 | 16.66 |
| Burnside Elementary | \$235,500.00 | \$23,794.83 | \$12,074.05 | \$211,705.17 | 17.53 |
| Colvill Family Center | \$83,750.00 | \$8,043.75 | \$2,258.82 | \$75,706.25 | 33.52 |
| Red Wing High School and District Office | \$991,900.01 | \$122,249.37 | \$42,811.40 | \$869,650.64 | 20.31 |
| | \$2,089,933.13 | \$284,914.55 | \$85,090.66 | \$1,805,018.58 | 21.21 |

ISD #256 Red Wing Public Schoels District Combined -LED Fixtures Lighting Upgrade



| PREPARED FOR: | | QUOTED BY: |
|---------------|----------------------------------|-------------------------------------|
| ACCOUNT | ISD #256 Red Wing Public Schools | TRC REP Jake Andrist |
| ADDRESS | 2451 Eagle Ridge Dr. | EMAIL andrist@retrofitcompanies.com |
| | Red Wing, MN 55066 | PHONE (507) 363-0656 |
| | | The Retrofit Companies, Inc. |
| ATTN | Kevin Johnson | dba Retrofit Lighting and Design |
| | (651) 385-4507 | 1010 Hoffman Drive Suite A |
| | kjohnson@rwps.org | Owatonna, MN 55060 |
| DATE | 4/13/2022 | RETROFITCOMPANIES.COM |

District Combined - LED Fixtures Lighting Upgrade

| | DESCRIPTION | UNIT PRICE | TOTAL |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|
| ÷ | Implement Customized Energy-Efficient Lighting Solutions utilizing the Cooperative Purchasing Connection (CPC) Contract: #20.6 - RLD - Lighting Audit and Solutions | | \$2,089,933.13 |
| | COOPERATIVE CONNECTION CONNECTION CONNECTION | | \$30,297.12 |
| | Estimated Xcel Energy and CEE One-Stop 2022 Bonus Rebates | | \$254,617.43 |
| | Rebates payable to: The Retrofit Companies, Inc. | | |
| * For all I profile/m ** Visa | I nstances of PCB containing ballasts, generator must obtain EPA ID number and complete anifest paperwork to ensure proper off-site disposal upon completion of the project. & MasterCard are accepted and will be charged 3% for processing | | |

Subtotal \$1,805,018.58

| Shipping & Handling | INCLUDED |
|---------------------|----------------|
| Taxes | N/A |
| TOTAL | \$1,805,018.58 |

1.5% FINANCE CHARGE APPLIED TO ALL PAST DUE ACCOUNTS

Proposal Acknowledgement:

Your signature above, or PO for this proposal, indicates you have read and agree to the Terms and Conditions and Warranty Information provided in the proposal.

Any changes in the above specifications shall be made in writing, and as evidence of agreement, shall be signed by both parties. TRC shall not be held responsible or liable for any loss, damage or delay due to causes beyond his control. If the purchaser disposes of the property by sale or otherwise before this contract has been fulfilled, the full unpaid amount of the contract shall become due and payable at once.



Terms and Conditions

Payment Terms: A down payment of 50% of the gross project value is due prior to project materials being ordered. The remaining balance is due upon project completion.

Incentives: The rebate figure provided is merely an estimate. Utilities reserve the right to adjust their rebate programs at any time, thus The Retrofit Companies, Inc. (TRC) will not be liable for unforseen adjustments to rebate programs and amounts.

Schedule Contingencies: Conditions or events beyond the control of TRC may jeopardize the proposed performance schedules. TRC shall not be responsible for delays in delivery beyond TRC's control. Examples of conditions or events beyond TRC's control include inability to access client's facility, extreme weather conditions, or force majeure.

Cancellation: Customer may choose to cancel prior to material shipment without additional restocking charge(s). Material orders that have been manufactured and/or shipped cannot be canceled and returned. All order cancellations must be in writing. All costs for warehousing and freight on orders canceled after shipment and/or refused at destination will be charged to the customer.

Maintenance of Material: Customer acknowledges and agrees that customer shall operate and maintain the material in accordance with the manufacturer's recommendations.

Publicity of Customer Participation: The customer grants TRC the right to use and reference, for promotional purposes, the customer's partnership with TRC.

Indemnification and Limitation of Company's Liability: Customer shall indemnify, defend and hold harmless TRC, its affiliates and their respective contractors, officers, directors, employees, agents, representatives from and against any and all claims, damages, losses and expenses, including reasonable attorneys' fees and costs incurred to enforce this indemnity, arising out of, resulting from, or related to the project or the performance of any services or other work in connection with the project's ("Damages"), caused or alleged to be caused in whole or in part by any actual or alleged act or omission of the customer, any subcontractor, agent, or third party, or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. To the fullest extent allowed by law, TRC's aggregate liability, regardless of the number of claims, shall be limited to paying approved incentives in accordance with these Terms and Conditions. TRC and its affiliates and their respective contractors, officers, directors, employees, agents, representatives shall not be liable to the customer or any other party for any other obligation. To the fullest extent allowed by law and as part of the consideration for participation in the project, the customer waives and releases TRC and its affiliates from all obligation, and for any liability or claim associated with the material, the performance of the material, or these Terms and Conditions.

Contractor Selection: Customer acknowledges that TRC reserves the right to select a vendor or contractor to install the materials and equipment at the customer's facility.

Removal of Equipment: The customer agrees to allow TRC to properly remove and dispose of, or recycle, the equipment, lamps and components in accordance with all applicable laws, and regulations and codes. The customer agrees not to reinstall any of removed equipment. Customer may be responsible for securing an EPA ID #, if they don't currently have one, in the instance of PCB ballast being found on-site.

Energy Benefits: Other than the energy cost savings projected to the customer, TRC is not held liable for unforeseen factors that could alter the projected savings outlined in this proposal.

ASHRAE or IECC Energy Codes: Unless explicitly stated otherwise on the quote page, all lighting projects developed by TRC do not comply with the ASHRAE or IECC energy codes, Adjustments to project pricing resulting from adhering to these codes, should the project be flagged during the electrical permitting process, are the sole responsibility of the customer.

PLEASE TAKE NOTICE:

(A) ANY PERSON OR COMPANY SUPPLYING LABOR OR MATERIALS FOR THIS IMPROVEMENT TO YOUR PROPERTY MAY FILE A LIEN AGAINST YOUR PROPERTY IF THAT PERSON OR COMPANY IS NOT PAID FOR THE CONTRIBUTIONS

(B) UNDER MINNESOTA LAW YOU HAVE THE RIGHT TO PAY PERSONS WHO SUPPLIED LABOR OR MATERIALS FOR THIS AMOUNT FROM OUR CONTRACT PRICE, OR WITHHOLD THE AMOUNTS DUE THEM FROM US UNTIL 120 DAYS AFTER COMPLETION OF THE IMPROVEMENT UNLESS WE GIVE YOU A LIEN WAIVER SIGNED BY PERSONS WHO SUPPLIED ANY LABOR OR MATERIAL FOR THE IMPROVEMENT AND WHO GAVE YOU TIMELY NOTICE.

(C) IF AT ANY TIME DURING INSTALLATION OR INSPECTION IT IS FOUND THAT THE FACILITY'S EXISTING ELECTRICAL DOES NOT MEET CURRENT CODE, THE RETROFIT COMPANIES, INC. IS NOT RESPONSIBLE FOR THE WORK REQUIRED TO BRING



Warranty

The Retrofit Companies, Inc. (TRC) warrants that its labor for all Turn-Key Retrofit projects is consistent with applicable industry standards. If you believe that TRC's labor did not comply with this warranty, then for a period of 30 days, TRC will have its laborers work with you to cure any alleged deficiencies in the labor performed pursuant to the parties' agreement. This limited warranty period starts upon substantial completion.

TRC's limited warranty is strictly limited, and only applies, to TRC's labor provided on the project. You understand that TRC's warranty does not cover, and TRC does not have any responsibility for, the design, manufacture, operation, maintenance, or performance of the products and equipment used in your project. The applicable manufacturers' warranties are owned by you, and you may pursue any warranty-related claims for the products with the manufacturers. Your TRC representative can, and will, help coordinate your warranty claims with the manufacturer as needed.

WHAT IS NOT INCLUDED IN THE WARRANTY

Labor and Equipment

TRC will leave your facility with lights and equipment in full working order. If products should fail, TRC will assist you in making a warranty claim to the manufacturer, free of charge. At your option, TRC will offer repair at our hourly rate, or offer to ship product to you for your own installation. If lifts or other specialty equipment is required to access the defective product, those fees will also be charged at the time of service.

Shipping and Delivery

TRC will invoice for shipping fees associated with return & delivery of replacement products.

LIMITATION OF DAMAGES

Regardless of the type of claim or damages, you agree that TRC's aggregate liability for all claims will not exceed the fee paid for our labor services or \$25,000, whichever is greater. If you are unwilling to accept this allocation of risk, we will increase our aggregate liability to \$50,000 provided that, within 10 days of the date of our Agreement, you provide payment in an amount that will increase our fees by 10%, but not less than \$500, to compensate us for the greater risk undertaken. This increased fee is not the purchase of insurance.

WARRANTY LIMITATIONS

THIS LIMITED WARRANTY CONSTITUTES THE SOLE WARRANTY MADE BY TRC, AND REPLACES ALL OTHER ORAL OR WRITTEN WARRANTIES, LIABILITIES OR OBLIGATIONS OF TRC. THE OBLIGATIONS CONTAINED IN THIS LIMITED WARRANTY CONSTITUTE THE EXCLUSIVE REMEDY AND ARE EXPRESSLY PROVIDED IN LIEU OF, AND REPLACE, ANY AND ALL OTHER OBLIGATIONS, GUARANTEES, AND WARRANTIES. THIS LIMITED WARRANY IS NON-TRANSFERABLE AND THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED WHICH EXTEND BEYOND THE FACE HEREOF, HEREIN, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. TRC'S OBLIGATIONS, RESPONSIBILITIES AND/OR LIABILITY SHALL BE LIMITED AS STATED ABOVE.

IN NO EVENT SHALL TRC BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING ECONOMIC LOSS AND DAMAGE TO ANY PERSONS OR PROPERTY.



Cooperative Purchasing Connection

Retrofit Lighting & Design, a division of The Retrofit Companies, Inc. (TRC), is excited to, once again, have the opportunity to partner with the Cooperative Purchasing Connection as well as the participating agencies in the program. The CPC has always provided exceptional service to their customers and we greatly value the collaborative marketing approach that TRC and the CPC have developed over the years. We have had wonderful success in marketing alongside the CPC for many years and hope to continue this partnership.





MARKETING PROPOSAL

MARKETING STRATEGY

As a leading lighting contractor in the Midwest territory, we are committed to delivering efficient, professional, and experienced lighting services to our customers. Our goal is to empower educational institutions with sustainable and cost-effective lighting solutions that enhance learning environments while reducing energy consumption.



Tailored Lighting & Marketing Solutions

Our experienced team of lighting experts has designed a range of tailored lighting solutions that meet the specific needs of schools, cities, counties, municipalities, and nonprofits in MN, ND, SD, WI, and IA. From classrooms to auditoriums, libraries to gymnasiums, our lighting solutions not only improve visibility but also promote energy efficiency, creating a better environment for students and staff.

- 32+ years of experience working with schools, cities, counties, municipalities, and non-profits
- Customers love partnering with our marketing team to showcase their finished project
- We directly support customers in gaining more visibility within their community and key decision makers
- CPC gains visibility through every project completed - digital marketing, multiplatform social, direct outreach and continued promotion through outbound sales effort with new and existing community & business partnerships



CONTRACT LAUNCH

To launch the CPC lighting partner contract, our team will employ a multi-faceted approach that combines digital marketing, direct outreach, and strategic partnerships.



RESEARCH & ANALYSIS

Before launching the contract, we conduct extensive research and analysis to understand the lighting needs and challenges faced by schools, cities, counties, municipalities, and non-profits in MN, ND, SD, WI & IA. This allows us to develop a comprehensive understanding of the local market, enabling us to provide tailored solutions that address the unique requirements of educational facilities as well as funding challenges & solutions.

DIGITAL MARKETING

Our online presence will play a pivotal role in promoting the lighting partner contract. We will leverage social media platforms, email marketing, and targeted online associations to raise awareness among schools, cities, counties, municipalities, and non-profits in the region. By utilizing our efficient, experienced, and professional brand voice, we will communicate the unique benefits and advantages of our sustainable lighting solutions, emphasizing energy savings and enhanced lighting quality.

DIRECT OUTREACH

Personalized direct outreach will be a key component of our launch strategy. Our experienced sales team will engage directly with school administrators, facility managers, and decision-makers through phone calls, emails, and in-person meetings. By showcasing our decades of experience, unique expertise, professionalism, and dedication to custom problem-solving, we will demonstrate the value of partnering with Retrofit Lighting & Design.

STRATEGIC PARTNERSHIPS

An additional aspect of our launch strategy involves establishing strategic partnerships with educational associations and organizations in each of the targeted states. By collaborating with these influential entities, we can extend our reach and credibility. This will involve participating in education-focused events, conferences, and seminars, where we can demonstrate our lighting solutions and connect with schools, cities, counties, municipalities, and non-profits representatives.

VALUE-ADDS

Our unique partnership with the CPC and their in-house Marketing Team over the years has fostered a beautiful collaborate approach to promoting our lighting contract and the values and benefits of utilizing the program.

- The Retrofit Companies, Inc. has a seasoned marketing department with years of experience in supporting this membership. This provides a huge value in partnering with us compared to our competitors.
- Our in-house ability to create custom video (shoot, edit, produce, publish), coupled with our graphic design capabilities to provide print and digital ads and marketing materials is also a unique benefit of our company.
- We would, additionally, provide a custom landing page uniquely for CPC members, providing supporting materials explaining the various perks and benefits of the program in great detail, with examples and FAQ's.
- Our team understands that maintaining consistency and professionalism in communication material is paramount. Thus, our marketing team will ensure that full color, print-ready electronic advertisements are always readily available. This will ensure our messages remain clear and concise, and our clients always have access to the latest marketing materials.
- Finally, our team attends dozens of tradeshows across the country annually and CPC lighting projects are often featured in our streaming digital content at our booth. These videos play in front of thousands of attendees throughout the year at a variety of industry events, showcasing how our services have supported their vision.

CONCLUSION

We look forward to announcing the continued partnership with the CPC. This contract allows both the CPC and TRC to empower educational institutions across the Midwest with sustainable and cost-effective lighting solutions while streamlining the process and utilizing funds efficiently.



800-795-1230 www.retrofitcompanies.com

| | Client#: 2021888 RETROCOM2 | | | | | | | | | |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------|----------------------------------|
| | ACORD _{TM} CERTIFICATE OF LIABILITY INSURANCE 8/25/2023 | | | | | | | | | |
| TI C B R IN If | THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on | | | | | | | | | |
| th | is c | ertificate does not confer any rig | hts to | the | certificate holder in lieu of | such endorsemer | nt(s). | | | |
| PRO | DUCE | ER | | | | NAME: USI Insu | Irance Serv | ices | | |
| US | Ins | surance Services, LLC | | | | PHONE (A/C, No, Ext): 800 73 | 5-3008 | FAX (A/C, No): | 610-5 | 37-1954 |
| 800 | 0 N | Iorman Center Drive | | | | E-MAIL ADDRESS: bloomin | gtoncertree | quest@usi.com | | |
| Sui | te 4 | 400 | | | | | INSURER(S) AF | FORDING COVERAGE | | NAIC # |
| BIO | om | ington, MN 55437 | | | 1 | NSURER A : Union In | surance Com | pany | | 25844 |
| INSU | RED | The Defendition | | | 1 | NSURER B : Employe | ers Mutual Cas | sualty Insurance Co | | 21415 |
| | | The Retrofit Companies, I | nc. | | 1 | NSURER C : SFM Mut | ual Insurance | e Company | | 11347 |
| | | 1010 Hoffman Drive, Suite | A | | 1 | NSURER D : Evansto | n Insurance C | ompany | | 35378 |
| | | Owatonna, MN 55060 | | | 1 | NSURER E : | | | | |
| | | | | | 1 | NSURER F : | | | | |
| CO | /ER | AGES CER | TIFIC | ATE | NUMBER: | | | REVISION NUMBER: | | |
| TH IN CH E) | IS DIC/ ERTI (CLU | IS TO CERTIFY THAT THE POLICIES ATED. NOTWITHSTANDING ANY RE IFICATE MAY BE ISSUED OR MAY I JSIONS AND CONDITIONS OF SUCH | OF QUIRI PERTA | INSUF EMEN AIN, T ICIES | RANCE LISTED BELOW HAVE T, TERM OR CONDITION OF THE INSURANCE AFFORDED LIMITS SHOWN MAY HAVE | E BEEN ISSUED TO ANY CONTRACT OI BY THE POLICIES BEEN REDUCED I | THE INSURED R OTHER DOO DESCRIBED H BY PAID CLAI | NAMED ABOVE FOR THE CUMENT WITH RESPECT HEREIN IS SUBJECT TO A MS. | POLIC TO WH ALL THI | Y PERIOD ICH THIS E TERMS, |
| LTR | | TYPE OF INSURANCE | INSR | WVD | POLICY NUMBER | (MM/DD/YYYY) | (MM/DD/YYYY) | LIMIT | s | |
| Α | Х | COMMERCIAL GENERAL LIABILITY | | | 5D73254 | 08/10/2023 | 08/10/2024 | EACH OCCURRENCE | \$1,00 | 0,000 |
| | | CLAIMS-MADE X OCCUR | | | | | | PREMISES (Ea occurrence) | \$ 1,00 | 0,000 |
| | Х | PD Ded: \$250 | | | | | | MED EXP (Any one person) | \$10,0 | 00 |
| | | | | | | | | PERSONAL & ADV INJURY | \$1,00 | 0,000 |
| | GEI | | | | | | | GENERAL AGGREGATE | \$2,00 | 0,000 |
| | | POLICY X JECT LOC | | | | | | PRODUCTS - COMP/OP AGG | \$ 2,00 | 0,000 |
| В | AU' | TOMOBILE LIABILITY | | | 6E58451 | 08/10/2023 | 08/10/2024 | COMBINED SINGLE LIMIT (Ea accident) | _{\$} 1,00 | 0,000 |
| | Х | ANY AUTO | | | | | | BODILY INJURY (Per person) | \$ | |
| | | OWNED SCHEDULED AUTOS | | | | | | BODILY INJURY (Per accident) | \$ | |
| | Х | AUTOS ONLY X NON-OWNED AUTOS ONLY | | | | | | PROPERTY DAMAGE (Per accident) | \$ \$ | |
| в | x | | | | 6,158451 | 08/10/2023 | 08/10/2024 | | \$5.00 | 0.000 |
| - | ~ | | | | 0000401 | 00/10/2023 | 00/10/2024 | | \$5,00 | 0,000 |
| | | | - | | | | | NOONEO/ITE | ¢ 0,00 | 0,000 |
| С | WO ANI | RKERS COMPENSATION D EMPLOYERS' LIABILITY | | | 129003204 | 08/10/2023 | 08/10/2024 | X PER OTH- STATUTE ER | φ | |
| | ANY OFF | PROPRIETOR/PARTNER/EXECUTIVE | N / A | | | | | E.L. EACH ACCIDENT | \$500, | 000 |
| | (Ma | Indatory in NH) | | | | | | E.L. DISEASE - EA EMPLOYEE | \$ 500 , | 000 |
| - | DES | SCRIPTION OF OPERATIONS below | - | | | | | E.L. DISEASE - POLICY LIMIT | \$ 500 , | 000 |
| D | Co | ontractors | | | MKLV3ENV104053 | 08/10/2023 | 08/10/2025 | \$1M/\$2M - \$10k SIR | | |
| - | Po | | | | | | | | | |
| B | L/F | | | | 6058451 | 08/10/2023 | 08/10/2024 | \$80,000/\$1,000 Ded | | |
| DES | RIP' | TION OF OPERATIONS / LOCATIONS / VEHI | LES (| ACORE | 101, Additional Remarks Schedul | e, may be attached if mo | ore space is requi | ired) | | |
| Uni | ni d On | Insurance Company 5D72254 | | ivai | | | | | | |
| ¢1 / | 201 | 000 Each Claim/\$1 000 000 A | aaro | asto | (\$1 000 Deductible Each | Claim | | | | |
| φι, | 000 | | yyre | yale | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| CEF | | FICATE HOLDER | | | | CANCELLATION | | | | |
| | | - | | | Γ | | | | | |
| | | Cooperative Purchasing Connection (CPC) | | | | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. | | | | |
| | | Fergus Falls, MN 56537 | | | | AUTHORIZED REPRESENTATIVE | | | | |
| | | | | 500 | | | | | | |

© 1988-2015 ACORD CORPORATION. All rights reserved.

This page has been left blank intentionally.





Cooperative Purchasing Connection Tabulation Report RFP #24.5 - Lighting Audit Services & LED Solutions Vendor: Voss Electric Comapny

General Comments: Thank you for the opportunity!

General Attachments: 7 - Project Deliverables - Voss Lighting - CPC Bid - 20230906.pdf COI for CPC Bid - Voss Electric dba Voss Lighting.pdf Pricing Schedule - Voss Lighting -CPC Bid - 20230609.pdf Vendor Forms - Signatures - Voss Electric dba Voss Lighting.pdf Vendor Questionaire – Voss Electric dba Voss Lighting.pdf



Vendor Questionnaire RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein is a questionnaire required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the required forms, follow these steps:

- 1. Read the document in its entirety.
- 2. Respondents must use the Vendor Questionnaire to its capacity. Attached exhibits and/or supplemental information should be included only when requested (i.e. Marketing Plan).
- 3. Complete all questions.
- 4. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Questionnaire Name of Company*".
- 5. Submit the Vendor Questionnaire, along with other required documents in Public Purchase.

The following sections will need to be completed before submission and submitted as one (1) single PDF titled "Vendor Questionnaire – Name of Company":

Company Information Qualifications & Experience Warranty Financials & Level of Support Marketing & Partnership Exceptions & Deviations References

Company Information

| | Voss Electric dba Voss Lighting |
|------------------------|---------------------------------|
| Name of Company: | |
| Company Address: | 1601 Cushman Dr. |
| | Lincoln, NE 68512 |
| City, State, Zip code: | |
| | www.vosslighting.com |
| Website: | |
| | (402) 328-2283 |
| Phone: | |

Provide the following company contacts that will be working with this anticipated contract. Include name, email, and phone number(s).

| | Name | Email | Phone |
|--------------------------|--------------------------|------------------------------|-----------------------|
| General Manager | Steve Sanderson | steve.sanderson@vosslightin | (402) 328-2281 |
| | | g.com | |
| Contract Manager | Richard Barber | richard.barber@vosslighting. | (402) 328-2281 |
| | | com | |
| Sales Manager | Mario Mammina; Josh Koch | mario.mammina@vosslighti | (402) 547-5295; (612) |
| | | <u>ng.com;</u> | 968-3274 |
| | | joshua.koch@vosslighting.co | |
| | | <u>m</u> | |
| Marketing Manager | Jay O'Neal | jay.oneal@vosslighting.com | (402) 328-2281 |
| Customer Service Manager | Mario Mammina; Josh Koch | mario.mammina@vosslighti | (469) 559-4336; (612) |
| | | ng.com; | 968-3274 |
| | | joshua.koch@vosslighting.co | |
| | | <u>m</u> | |
| Account Manager(s) | Grant Teckmeyer, Dave | grant.teckmeyer@vosslighti | (402) 850-9779; (612) |
| | Christenson | <u>ng.com</u> ; | 270-3664 |
| | | dave.christenson@vosslighti | |
| | | ng.com | |
| | | | |

List who will be responsible for receiving updated participation lists.

| Name | Email | Phone |
|----------------|---------------------------------|----------------|
| Richard Barber | richard.barber@vosslighting.com | (402) 328-2281 |

List who will be responsible for submitting sales reports and administrative fee payments every quarter.

| Name | Email | Phone |
|-----------------|----------------------------------|----------------|
| Vince Granshorn | vince.granshorn@vosslighting.com | (402) 328-2281 |

List who will be responsible for conducting audits as requested by CPC.

| Name | Email | Phone |
|---------------------------------|--------------------------------------------------------------------------|---------------------------------|
| Mario Mammina; Josh Koch; Brian | mario.mammina@vosslighting.com; | (469) 559-4336; (612) 968-3274; |
| Casebolt; Brad Selley | <u>losnua.koch@vosslighting.com;</u> brian.casebolt@vosslighting.com; | (402) 906-5560; (612) 251-2420 |
| | brad.selley@vosslighting.com | |

Identify any business types/classifications that your company holds. *Submit documentation in PDF format to verify business status (see submittal checklist).

| х | Business Type/Classification | | x | Business Type/Classification |
|---|------------------------------|--|---|----------------------------------|
| | 8(a) 8(a) Qualified Business | | | SDB Small Disadvantaged Business |

| DBE | Disadvantaged Business Enterprise | |
|-------------------|------------------------------------------|--|
| HUB | Historically Underutilized Business Zone | |
| MBE | Minority-Owned Business Enterprise | |
| MWBE | Minority Women-Owned Business Enterprise | |
| SBE | Small Business Enterprise | |
| Other; list name: | | |

| SDVOB | Service-Disabled Veteran Owned Business |
|-----------|-----------------------------------------|
| SECTION 3 | Section 3 Business Concern |
| SSV | Sole Source Vendor |
| VBE | Veteran-Owned Business Enterprise |
| WBE | Woman-Owned Business Enterprise |
| | |

Provide a list of other contracts your organization has in place that could be accessed by our membership for your services (e.g. other consortiums, state agencies) in MN, ND, SD, IA, and WI?

Click or tap here to enter text.

NCPA, Minnesota State Contract(LAMP CONTRACT #L290 BALLAST CONTRACT # 65590) , Nebraska State Contract, Omnia Partners

Qualifications & Experience

1. Provide a brief background of your organization, including the year it was founded (1-2 paragraphs max.).

Voss Lighting was founded in 1939, in Lincoln, Nebraska and has grown to thirteen brick and mortar branches nationwide located in the following states: Nebraska, Minnesota, Missouri, Kansas, Oklahoma, Colorado, North Carolina, Georgia, Texas, and Arizona.

Voss is a trusted lighting solutions and services provider in North America. We work with building owners, property managers, government, and corporations to deliver tailored lighting and energy solutions. Our customers look to Voss when they are frustrated with wasting money and resources due to out of control building expenses, rising energy costs, and outdated lighting systems. In our continually changing environment, we specify quality lighting solutions through a joined collaboration between our customers and Voss' highly-trained lighting specialists.

2. Provide evidence of what your company is doing to remain viable in the lighting industry.

From 1939 to 2013, our business functioned primarily as an MRO distributor offering replacement lamps and ballasts to our customers nationwide. Nearly ten years ago, we adopted our business model to meet the market demand for full turn-key installations, which includes supplying industry leading lighting and controls, helping customers filter and discern the constant barrage of poor, pre-packaged LED solutions, navigating our customers through the deep waters of compliance, regulations and standards that come with lighting upgrades, maximizing energy savings, and facilitating energy rebates and financing options.

3. Describe your company's logistics (locations, experience, production, distribution of products, warehouse inventories and delivery systems used) that should be considered in your ability to deliver on-time quality services, products, and solutions to participating agencies in MN, ND, SD, IA, and WI.

Our primary locations serving this five-state region include Lincoln and Omaha, NE, Kansas City, and Minneapolis. All four brick-and-mortar branches have warehouses for stocking distribution and staging materials for project installations. Each branch is also equipped with a delivery van. In cases where drop-shipping from the manufacturer is permissible, the shipment would be coordinated with the agency and manufacturer by a Voss representative. We understand how important staging the materials is for the agency and electricians on site, and emphasis on this portion of the project is of high importance.

4. Describe the number of agencies your organization, on average, provides lighting audit services and LED solutions to. Include overall numbers and numbers specific to MN, ND, SD, IA, and WI.

Describe your customer retention as it pertains to lighting audit services and LED solutions (i.e. customers who are served that continue to be repeat customers).

Since its inception in 1939, Voss Lighting has specialized in value-added sales and has been consistently offering product-specific energy audits to our customers. On a daily basis, we conduct numerous such audits, including those for single buildings or single zones, which collectively amount to thousands per year. However, for the purposes of this bid submission, we will focus exclusively on "institutional" audits, encompassing multi-building assessments and evaluations of office or government campuses. As a company, we typically carry out an average of 150-200 institutional audits each year. In the 2022-2023 fiscal year, 56 of these audits were performed by the locations responsible for managing the contract in the regions of Minnesota (MN), North Dakota (ND), South Dakota (SD), Iowa (IA), and Wisconsin (WI).

5. Describe and specify your proposed service area (MN, ND, SD, IA, and WI) and how your company intends to meet the needs of customers in that area.

Voss Lighting has 13 brick-and-mortar locations in the Midwest, Southwest, and Southeast regions. Our history spans over 80 years, originating in Lincoln, NE, and expanding to Minneapolis, MN. We have a strong track record serving public sector customers in MN, ND, SD, IA, and WI from these two branches. Our on-site lighting specialists respond within 5 business days to customer requests, providing expertise and site evaluations. They are backed by a team of fixture designers, project managers, and logistical support staff, ensuring efficient customer service.

6. List the agencies, if any, you would exempt from this contract (i.e. current agencies that you are currently serving that will be exempt from pricing submitted with this proposal).

MN customers that are currently purchasing from the state contacts. (LAMP CONTRACT #L290 BALLAST CONTRACT # 65590)

7. Describe your company's approach to lighting audits, the steps involved in an audit, and applicable LED solutions and what differentiates your company from your competitors. Describe any competitive differences regarding sales, service, installation, technology, and product line(s).

An agency would start the process by reaching out to our lighting account managers listed on this bid submission. Those account managers would take the time to interview the prospective client as we looked holistically and thought financially in order to understand the agency's primary needs. At that time, our account managers would engage our project teams to set a date to audit the site. From the audit, we can determine what other resources are needed to complete a final proposal (additional site visits, communication with local AHJs, site visits by subcontractors). Upon sufficient information gathering, we then build the formal proposal. Our goal would be to have that formal proposal ready to be presented in person within 14 business days, at which time a presentation meeting would be set with the agency.

If the agency chooses to proceed with the project, we will collaborate closely with all personnel at the facility to develop a comprehensive and dependable installation plan. This plan will encompass precise product lead times, site safety prerequisites, site storage arrangements, recycling and disposal procedures, and an installation timeline. Upon project initiation, a dedicated Voss Lighting project manager will be assigned to oversee all aspects of the ongoing project. This project manager will maintain regular communication with the agency's facility team to ensure seamless coordination and progress updates.

When you compare Voss Lighting to our competitors, you'll notice several aspects that we take immense pride in:

- (1) Customer-First Culture: Voss Lighting's core is built on a customer-centric culture, firmly rooted in integrity.
- (2) One-Stop Lighting and Energy Solution: We are your trusted, comprehensive solution for all your lighting and energy requirements.
- (3) Long-Term Partnership: We are dedicated to fostering long-term partnerships that extend from project conception to exceptional after-sales support.
- (4) Our expertise in light fixtures allows you to rely on us for selecting the right fixture based on availability now and in the future, durability and life expectancy, controls compatibility and much more.
- (5) Our financial focus means you can be assured we will go beyond products and services to also include funding options so you can do more with less.

8. Describe how your company works with local utility companies to ensure energy rebates are maximized and how the funding/rebate, if approved, flows through, and applies to the project.

We are experts in working with and maximizing any energy rebates that can be associated with your lighting retrofits. Upon completing a site audit, we promptly assess available rebate options from local utilities. These estimated rebates will be integrated into our final project proposal presentation. Regarding rebate acquisition, if permissible by the rebate provider, we will deduct the rebate amount from the project's total cost. In cases where this isn't feasible, we will manage all necessary paperwork and ensure rebate funds are directly disbursed to the client.

9. Describe your company's approach to proposing available LED solutions to an agency resulting from a lighting audit.

Our expertise in light fixtures allows you to rely on us for selecting the right fixture based on availability now and in the future, durability and life expectancy, controls compatibility, and much more. Because there are several ways to approach a lighting retrofit, we oftentimes will propose a good, better, best solution to the agency, taking into account energy savings, aesthetics, functionality, and controllability. We also offer mock-up demonstrations if needed so that the agency can make the best decision for themselves. In short, we provide the offerings and help guide the agency to make the best decision to fit their practical needs and budget.

10. Describe any minimum project requirements and if any surcharges will be assessed for not meeting the minimum.

Minimum Area = 7000 Sq Ft . If the project is smaller than 7000 Sq Ft. all rates associated with the lighting audit will be increased by a 2x multiplier.

11. Describe how your company ensures that the LED solutions and products offered are current, energy efficient, best-value, and are customizable to agency needs.

Since our inception in 1939, we have only offered the best in lighting quality at a fair price to our customers. This business model has ensured us time-tested partnerships with our customers and preferred lighting manufacturers. The plethora of available LED solutions to agencies has made the need for specialists ever more important. Every day, we help customers filter and discern the constant barrage of poor, pre-packaged LED solutions. Even though we facilitate the manufacturer's warranty between the agent and the manufacturer, we rarely need to warranty because of the quality products we chose to specify and provide.

12. Describe your company's hierarchy or chain of command from installers to sales to management that will work with this potential contract/program.

An agency would start the process by reaching out to our lighting account managers listed on this bid submission. Those account managers would take the time to interview the prospective client as we looked holistically and thought financially in order to understand the agency's primary needs. At that time, our account managers would engage our project teams to set a date to audit the site. From the audit, we can determine what other resources are needed to complete a final proposal (additional site visits, communication with local AHJs, site visits by subcontractors). Upon sufficient information gathering, we then build the formal proposal. Our goal would be to have that formal proposal ready to be presented in person within 14 business days, at which time a presentation meeting would be set with the agency.

13. Describe the process from order placement, including methods, to receipt of order, installation, and final walk-through (punch-list).

Once order is placed, the following will take place, which could include one staging process or a combination of both. A) We will bring the materials into our warehouse for staging and palletize the materials according to the predetermined installation schedule. B) If the project warrants a direct drop ship (distance and/or the agencies capability to receive shipment), we will schedule the delivery with the agency directly from the manufacturer. One of our representatives will also follow up on site after the delivery to check over the materials and palletize on site according to the predetermined installation schedule.

We will administer a pre-installation walkthrough with the agency and our electrician. During the installation, our project manager will be on site at least weekly in order to make sure installation is progressing according to the predetermined installation schedule and serves as the direct point of contact for the agency. After installation, our project manager will facilitate the final walk-through punch-list with the agency, and correct any items left undone in a prompt manner in order to finalize the project.

14. Describe in detail your return or exchange program/policy(s) for purchases of LED lighting solutions and/or specific products (i.e lamps, fixtures) outside of an audit or applicable project.

Labor/Installation Warranty - Voss Lighting will provide a 1-year warranty on all labor (from the time of the final invoice) and the materials warranty starting upon receiving the purchase order from the agency. (Exception : This warranty does not cover lift or equipment charges in excess of \$500 per project)

Material Warranty - We will provide warranty based on the manufacturer's listed warranty at the time the project was completed. We make the warranty process easy for the agency by facilitating the warranty on their behalf with the manufacturer. This manufacturer's warranty can range from 5 years to 10 years based on the equipment selected for the project. Note: an agency *may* incur shipping costs on a warranty replacement

15. Provide a narrative of a recent project that totaled at least \$150,000 in lighting audit and LED solutions. The narrative should describe the lighting audit and results, proposed project scope, pricing costs and calculations, any fees, your company's installation/project management, and a final report and rebate summary.

Elmwood-Murdock Public Schools

The school district had a desire to upgrade all the lighting in two school buildings located in adjacent communities. It was the goal of the District's Superintendent and Board of Education to upgrade to more energy efficient LED technology to reduce operating costs and improve the learning environment.

The Districts' leadership had concerns with the initial investment and the manpower to manage the development and delivery of a successful project. Voss Lighting shared its process and provided funding information, as well as recommended a solution to meet the State and District's procurement requirements...all of which removed any concerns by District Leadership and their decision to proceed with a lighting upgrade project through a partnership with Voss Lighting. Voss Lighting addressed the District's concerns as follows:

1. Initial investment - We shared what the net investment would be after rebates and first year O&M savings. We then shared how many years it would take to pay for the project and what funding sources they could potentially pull money from to fund (e.g. Depreciation Account, Building Fund Levy balance or future allocations and reallocated costs such as energy, maintenance, etc.) 2. Manpower to develop and manage the project - We shared with the Superintendent how we could do a preliminary audit to then share with the Board of Education. And we shared how we would manage the process from concept to a successful completed project. The process shared by Voss was as follows:

1. Discovery Meeting: We used this meeting to identify opportunities for lighting upgrades and gain an understanding of the District's financial position for the sake of determining how best to fund a project from within their operating budget. We determined that there were two school buildings that would benefit from building wide upgrades to improve light levels in classrooms, gyms, offices, commons and many other areas. And in this initial meeting with the Superintendent we were able to show him how we could lead the District from concept to implementation and completion of a successful project, all while meeting procurement requirements and assuring the Board of Education of a competitively priced solution. As a preferred lighting vendor in the Nebraska State Education Service Unit's COOP Purchasing Program we were able to share that our pricing has already been competitively solicited and publicly awarded.

 Facility Survey and Energy Audit: We conducted a survey of both buildings to determine where light levels needed to be improved, where light fixtures should be replaced and where lamp only replacements were more appropriate and where safety and security concerns could be addressed with enhanced lighting. We also collected electricity usage information so that we could provide an Energy Audit, showing projected energy usage and cost savings; as well as projected project investment with ROI and simple payback information. This Report gave the District Leadership pertinent information in which to justify proceeding with a project. The Audit/Cost Benefit Analysis is included.
 Project Development and Proposed Scope: We put together the scope of work agreed to by the Board of Education

3. Project Development and Proposed Scope: we put together the scope of work agreed to by the Board of Education based on our recommendations, projected investment, energy and maintenance cost savings, utility company rebates and resulting ROI and simple payback. The final scope of work was to upgrade fixtures to 4000K LED flat panels in classrooms, halls and offices. 4000K LED lamps were installed in all decorative fixtures in various areas, such as the Library and specific halls in the elementary school. Both gyms received new LED high bay fixtures which improved light levels by a minimum of 50%. Parking lot and building exterior lighting was upgraded to LED technology, improving light level and coverage to enhance safety and security desires. Voss Lighting was responsible for project management which included but was not limited to: product ordering and delivery, ongoing communication with the District representative, work scheduling and assurance agreed to timeline was met, managing installation, project closeout, and any applicable warranty (there have been no warranty claims from this project other than one or two immediate product failures at the time of installation, which were handled promptly).

4. Final pricing was presented to the Board of Education. The District's final investment was \$93,080 for the Elementary School and \$113,595 for the Middle/High School. And as part of our partnership, we handled the application process for the District to receive utility company rebate funds totalling \$14,718. This money was sent directly to the District from the utility company.

5. After Rebates, the simple payback for the Elementary School was less than 5 years (\$17,324 annual savings) and the Middle/High School was less than 5.6 years. (\$18,900 annual savings.) The Superintendent stated that this summer's energy bills (which represent one year since the lighting upgrade took place) have shown a greater savings than projected.

15a. Uploaded as a separate PDF document titled "7 - Project Deliverables" provide the supporting documentation for the project described above in #15. Supporting documentation and deliverables must include the following:

- (i) Lighting audit and results
- (ii) Proposed project scope, pricing costs and calculations, any applicable fees
- (iii) Installation/Project Management plan
- (iv) Final report and rebate summary

16. Describe any "added value" attributes being offered to participating agencies when purchasing services and products through your company. Describe any "value-adds" that are <u>exclusive</u> to the potential contract.

We provide all of our listed "value-add" services to each of our current and prospective customers. Voss Lighting has been focused on providing the maximum value for all of our customers since 1939.

Warranty

1. Describe your warranty program, including any conditions and requirements to qualify claims procedure and overall structure.

Labor/Installation Warranty - Voss Lighting will provide a 1-year warranty on labor associated with the original scope of work (from the time of the final invoice) and the materials warranty starting upon receiving the purchase order from the agency. (Exception : This warranty does not cover lift or equipment charges in excess of \$500 per project) Material Warranty - We will provide warranty based on the manufacturer's listed warranty at the time the project was completed. We make the warranty process easy for the agency by facilitating the warranty on their behalf with the manufacturer. Note: an agency *may* incur shipping costs on a warranty replacement.

Initiating Warranty Claims - To initiate a warranty claim, reach out to the project manager who was assigned to your project within 30 days of the failure or potential failure of the product covered by the warranty. The project manager will then guide you through the process, facilitating the ordering and delivery of the replacement materials. If your project is still within the one-year parts and labor warranty window, they will also oversee the installation of these materials.

2. Do all warranties cover all products/equipment parts and labor?

_____ Yes _____ No

If NO, describe the exceptions to coverage.

Labor/Installation Warranty - This warranty does not cover lift or equipment charges in excess of \$500 per project. Material Warranty - Voss Lighting will facilitate the warranty between the manufacturing of the LED products and the agency who received the material. In the event that the manufacturer no longer is supporting their listed warranty , Voss Lighting can no longer continue facilitating the stated warranty.

3. Do warranties cover the expense of a technician's travel time and mileage to perform warranty repairs?



If NO, describe why travel and mileage are not covered.

Labor/Installation Warranty - Voss Lighting will provide a 1-year warranty on labor associated with the original scope of work (from the time of the final invoice) and the materials warranty starting upon receiving the purchase order from the agency. (Exception : This warranty does not cover lift or equipment charges in excess of \$500 per project) Travel Costs subject to verification on cause for warranty. 24-hour period travel costs are covered with the 1-year period of the labor/installation warranty. Travel costs outside of 24-hour period are subject to the nature of the warranty. Outside of the 1-year labor and installation warranty, only material costs are covered by any warranty facilitated by Voss Lighting.

4. List any additional limitations or circumstances that would not be covered under your warranty?

No, other than the agency and/or third party operating the LED lighting in negligence, disruptions to the power grid (i.e. voltage spikes that could destroy an LED driver), or random acts of God.

 List any geographic areas for which your organization cannot provide a certified technician to perform warranty repairs. How will participating agencies in these areas be provided service for warranty repair?
 No

Financials & Level of Support

- Describe the percentage of your company's revenue, by category (city/county/government, K12 education, higher education) that is derived from lighting audit services and LED sales on an annual basis.
 28% - 12.7M (House / Government Sales) - 2022/2023 Fiscal Year
- 2. Describe how your company works with agencies to determine payment terms, progress payments, etc.

Our normal payment terms are NET30 with 40% down payment and progress billing depending on the size and duration of the project.

3. Describe your company's allowed methods for payment and if any fees are assessed for those methods. Check , ACH , P-Card (4% fee for all P-Card use)

4. Indicate the level of support your company will offer on this contract category.

Pricing is better than what is offered to individual educational agencies.

Pricing is better than what is offered to cooperative educational agencies.

x Other, please describe

If OTHER, describe how the pricing submitted differs from individual entities or other purchasing consortiums:

In most cases this pricing will be better than what is available to individual educational agencies. The main exception is for agencies that have access to some of the products via a state level pricing contract that has already been awarded. Example : Minnesota State Contract(LAMP CONTRACT #L290 BALLAST CONTRACT # 65590), Nebraska State Contract. Note these contracts do not include labor rates, just material pricing.

5. Describe any self-audit process/program you plan to employ to verify compliance with an anticipated contract award.

All projects/sales within Voss Lighting are subject to review by our national project manager. All projects over \$100K are subject to a pre-project review at the beginning of the project, in some cases prior to the audit of the facilities to make sure any factors unique to the project in question are discussed. All projects are reviewed by our national projects team and the PM assigned to the project. At that time they will confirm all pricing is within the contract terms and itemize costs as necessary on the final invoice to demonstrate this to the agency where the work was completed.

1. Describe how your company will position and propose to support CPC and its participating agencies regarding program growth.

We will request CPC provide Voss Lighting with a contact list of members so we can do email blasts and phone calls to them, promoting our recently approved vendor and our services and the value they will provide. Regarding projects, it is important we share that Voss Lighting looks holistically and thinks financially when surveying our customers' buildings. By doing so we can show our customers how they can fund much of their project with reallocated costs, rebates and federal incentives. And in many instances we can show them how to fund a project with 0 - 10% investment upfront. We will also provide promotional information and resources to be added under our company name on the Promotion and Resources page of the CPC website. Some of the information we will include is:

- Benefits of LED Lighting
- Upcoming Ban on Fluorescent Lighting
- Not all LED is made the same
- How to do a LED Lighting Upgrade without Adding Costs
- 5 Minute Exercise to Determine Investment to do LED Lighting Upgrades
- How Controls can Save You Money, Instill Game Time excitement and Enhance Your Learning Environment
- Why a Lighting Expert Needs to be Included in New Construction Design Stage
- It's now Easy and Inexpensive to Add Color to Your Building or Points of Interest

2. Describe and submit a marketing plan that would describe, at a minimum, the following: process on how the contract will be launched to current and potential agencies, the ability to produce and maintain full-color print advertisements in camera-ready electronic format, including company logos and contact information, anticipated contract announcements, planned advertisements, industry periodicals, other direct, or indirect marketing activities promoting the awarded contract, and how the contract award will be displayed/linked on your organization's website. You can submit any support materials as Exhibit A – Marketing Plan.

- A participant in online webinars
- A presenter at conference breakout sessions
- An exhibitor at conferences
- An advertiser in publications
- An association sponsor or specific to various events
- A contributor to newsletter and/or other forms of communication

Voss Lighting has a Marketing Department that is responsible for producing and maintaining full color print ads in camera ready electric format. We currently work closely with the Nebraska State ESU COOP Purchasing Program Coordinator, providing him with needed marketing material throughout the year. Samples of some marketing flyers we anticipate sending out are included in Exhibit A - Marketing Plan

3. Describe how your company will position this contract to CPC's participating agencies if awarded.

Voss Lighting will provide Ads for such opportunities as on the CPC website, in collaboration at conferences and new member solicitations.

4. Describe how you plan to inform and train company personnel on the contract terms and conditions, details, and promotion of the contract. Describe how your organization plans to utilize your marketing and sales staff with this anticipated contract.

Voss Lighting will roll this out to all contacts associated with the contract if the bid is awarded. Voss Lighting will work with our internal pricing and AR staff to manage the pricing during the duration of the contract. We will also have quarterly updates with the account managers that are responsible for the areas covered under this contract to make sure they are make any existing or potential clients aware of the benefits of this contract.

Exceptions & Deviations

- **1.** List any additional stipulations and/or requirements your company requests that are not covered in the RFP. None.
- 2. List any exceptions your company is requesting to the terms outlined in the Technical Specifications. Respondents must include the following when requesting exceptions:
 - RFP section number and page number
 - Describe the exception
 - Explanation of why this is an issue
 - A proposed alternative to meet the needs of participating agencies and the cooperative
 - Voss Lighting is not licensed to perform electrical installation in the state of ND. We can still provide lighting audit services, product specification and product supply in ND.

References

Provide three (3) references that have purchased Lighting Audit and LED Solutions <u>from your company within the</u> <u>last two (2) years</u>. References from the proposed service area are preferred. A contact name, phone number and email will be required. *Note, ensure your references are prepared to communicate with a representative from CPC. Failure to confirm reference of past work may affect your evaluation.

| Reference #1 – Company Name | Elmwood-Murdock Public Schools |
|-----------------------------|---------------------------------------------------------------------------------|
| Service/Product Purchased | LED Lighting. |
| Year of Purchase | 2022 |
| Reference Contact | Ryan Knippelmeyer |
| Phone | (402) 867-2341. |
| Email | rknippelmeyer@emknights.org |
| | |
| Reference #2 – Company Name | Apex Solutions for the City of Maple Grove, MN |
| Service/Product Purchased | Site Audit & Spec , Interior & Exterior LED Lamps , LED Fixtures , Installation |
| Year of Purchase | 2020-2021 |
| Reference Contact | Gene Molitor, City of Maple Grove |
| Phone | 763-494-6386. |
| Email | Gmolitor@maplegrovemn.gov |
| | |
| Reference #3 – Company Name | Wilber Clatonia Public Schools |
| Service/Purchase Purchased | Lighting & Installation Services . |
| Year of Purchase | 2023 |
| Reference Contact | Ray Collins |
| Phone | (402) 821-2508 |
| Email | ray.collins@wilberclatonia.org. |



Vendor Forms & Signatures RFP #24.5 – Lighting Audit Services & LED Solutions

Instructions

Contained herein are forms and information required by the Cooperative Purchasing Connection (CPC). Please note, while some information is merely informational, some will be used during the evaluation and vetting process.

To submit the <u>required forms</u>, follow these steps:

- 1. Read the document in its entirety.
- 2. Complete all questions and forms.
- 3. Save all pages in the correct order to a <u>single PDF format</u> titled "*Vendor Forms & Signatures Name of Company*".
- 4. Submit the forms in the required format with all necessary signatures in Public Purchase.

The following sections will need to be completed prior to submission and submitted as one single PDF titled "Vendor Forms & Signatures – Name of Company":

- 1. Contract Offer & Award
- 2. Uniform Guidance "EDGAR" Certification Form
- 3. <u>Subcontractor Utilization Form</u>

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part I will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | Voss Electric dba Voss Lighting | Date | 09/06/2023 |
|-------------------------|---------------------------------|------------------|--------------------|
| Address | 5200 S 16th St. | City, State, Zip | Lincoln, NE, 68512 |
| Contact Person | Mario Mammina | Title | Branch Manager |
| | | | |
| Authorized Signature | NAZ | Title | Branch Manager |
| Email | mario.mammina@vosslighting.com | Phone | 469.559.4336 |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | | Authorized Signature | |
|----------------|-------------------|-------------------------|--|
| Name | | Title | |
| | | | |
| Awarded this | day of _ | Contract # | |
| Contract/Agree | ement to Commence | | |

EDGAR Certification Form 2 CRF Part 200

REQUIRED CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS – APPENDIX II TO 2 CFR 200

The following provisions are required and apply when federal funds are expended by participating agencies for any contract resulting from this procurement process.

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Vendor Violation or Breach of Contract Terms

Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. Provisions regarding vendor default and legal remedies are included in Sections I.K.18 and I.K.19 above. Any contract award will be subject to such provisions. The remedies under the contract are in addition to any other remedies that may be available under law or in equity.

(B) Termination for Cause and for Convenience

Pursuant to Federal Rule (B) above when federal funds are expended by participating agencies, the participating agency reserves all rights to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by the Vendor, in the event the vendor fails to" (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. The participating agency reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if the participation agency believes, in its sole discretion that it is in the best interest of the participating agency to do so. The vendor will be compensated for work perform and accepted and goods accepted by the participating agency. Any award made under this procurement process is not exclusive and the participating agency reserves the right to purchase goods and services from other vendors when it is in the best interest of the participating agency.

(C) Equal Employment Opportunity

Except as otherwise provided under 41 CFR Part 60, all participating agency purchases or contract that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR Part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

(D) Davis Bacon Act

When required by Federal program legislation, Vendor agrees that, for all participating agency contracts for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, in excess of \$2,000, Vendor shall comply with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the Vendor is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a

wage determinate made by the Secretary of Labor. In addition, the Vendor shall pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Vendor must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act

Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. The requirements of the 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions that are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies, materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Right to Inventions Made Under a Contract or Agreement

If the participating agency's Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance or experiments, developmental or research work under the "funding agreement," the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act and Federal Water Pollution Control Act

Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Order 12549 and 12689)

A contract award (see 2 CFR 180.222) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), "Debarment and Suspension." SAM exclusions contain the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Vendors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

Pursuant to Federal Rule (I) above, when federal funds are expended by participating agencies, the vendor certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, the vendor certifies that it is compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be include in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriated tiers and that all subrecipients shall certify and disclose accordingly.

(J) Procurement of Recovered Materials

For participating agency purchases utilizing Federal funds, Vendor agrees to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act where applicable and provide such information and certifications as a participating agency may require to confirm estimates and otherwise comply. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery, and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

(K) Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment

A participating agency is prohibited from obligating or expending funds to:

- (1) Procure or obtain.
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou
Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

- (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
- (iii)Telecommunications or video surveillance equipment or services products or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(L) Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.

For the purpose of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

PROFIT AS A SEPARATE ELEMENT OF PRICE

For purchases using federal funds in excess of \$250,000, a participating agency may be required to negotiate profit as a separate element of the price. See 2 CFRR 200.323(b). When required by a participating agency, the vendor agrees to provide information and negotiate with the participating agency regarding profit as a separate element of the price for a particular purchase. However, vendor agrees that the total price, including profit, charged by the vendor to the participating agency shall not exceed the awarded pricing.

RECORD RETENTION REQUIREMENTS FOR CONTRACTS PAID FOR WITH FEDERAL FUNDS – 2 CFR § 200.333

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The vendor further certified that vendor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending maters are closed.

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When federal funds are expended by participating agencies for any contract resulting from this procurement process, the vendor certifies that the vendor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conversation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18; Pub. L. 94- 163, 89 Stat. 871).

CERTIFICATION OF NON-COLLUSION STATEMENT

Vendor certifies under penalty of perjury that its responsible to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Pursuant to Federal Ruling, when federal funds are expended by participating agencies, the vendor hereby certifies that during the term of an award for all contracts by participating agencies resulting from this procurement process, vendor certifies compliance will all provisions, laws, acts, regulations as specifically noted above. The vendor agrees to comply with all federal, state, and local laws, rules, regulations, and ordinances, as applicable.

| Business Name | Voss Electric dba Voss Lighting | Authorized Signature |
|---------------|---------------------------------|-------------------------|
| Full Name | Mario Mammina | Title Branch Manager |

Instructions: List all subcontractors to be used during the performance of this contract. Submit additional forms if needed.

| Solicitation Name: | Lighting Audit Services & LED Solutions |
|---------------------------|-----------------------------------------|
| Solicitation Number: | RFP #24.5 |
| Vendor Name: | Voss Electric dba Voss Lighting |
| If a subcontractor will n | ot be used, check this box: |
| Company Name: | Hunt Electric |
| Street Address: | 7900 CHICAGO AVENUE S |
| City, State, Zip: | BLOOMINGTON, MN, 55420 |
| Telephone: | 651-646-2911 |
| Primary Contact: | Seth Holm |
| Email Address of Conta | act: sholm@huntelec.com |
| Services to be provided | 1: |
| Labor & Installa | ation Services |
| Company Name | Commonwealth Electric Compony |
| | |
| Street Address: | 1530 2nd Ave |
| City, State, Zip: | Des Moines, IA, 50314 |
| Telephone: | (515) 288-5783 |
| Primary Contact: | Tom Washington |
| Email Address of Conta | twashington@commonwealthelectric.com |
| Services to be provided | 1: |
| Labor & Installa | ation Services |
| Company Name: | |
| Street Address | |
| City Chata 7in | |
| City, State, Zip: | |
| Telephone: | |
| Primary Contact: | |
| | |

Email Address of Contact:

Services to be provided:

Instructions. Complete the tables below for the services your company is offerring. Please note this is an REQUIRED form.

REQUIRED

| Responding Company's Name: | Voss Elec | tric dba Voss Ligh | ting | | | REQUIRED |
|-------------------------------------------------------------|----------------------|--------------------------|-----------------------|----------------------|------------------------|----------------------------------------------------------------|
| Lighting Assessment & Design | | | | | | |
| Description | Standard Price & | Discounted Price | e & Member | Per Diem Charges | Mileage Charges | Notes/Comments |
| | Rate | * Rate | Savings | (daily rate, if any) | (per mile, if any) | |
| Lighting Audit & Assessment (per square foot) | \$ 0.04 | . \$ 0.0 | 0.01% | \$ 179.00 | \$ 0.75 | Mileage calculations will start from the base location for the |
| Design Services / hr | \$ 195.00 | \$ 150.0 | 0 21.43% | \$ 179.00 | \$ 0.75 | Mileage calculations will start from the base location for the |
| Project Management | \$ 195.00 | \$ 150.0 | 0 21.43% | \$ 179.00 | \$ 0.75 | Mileage calculations will start from the base location for the |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| Installation [Labor] **Prevailing wage projects/insta | alls are subject to | <u>higher</u> hourly rat | tes/charges | . Prevailing wage r | ates change by MI | V county. Participating agencies are required to notify the |
| vendor it prevaiing wages are required (state/iederal iundi | ing as part or all o | r the projectj. | | | | |
| Description | Standard Price & | Discounted Price | e & Member Savings | Per Diem Charges | Mileage Charges | Notes/Comments |
| Proiect Manager - Hourly Rate - Regular Hours | \$ 225.00 | 195.0 | 0 14.29% | \$ 179.00 | \$ | Maximum Hourly Rates. Travel will be charged on an hourly |
| Project Manager - Hourly Rate - Evening/Weekend/Holidays | \$ 398.00 | \$ 368.0 | 0 14.29% | \$ 179.00 | ۰ ۱ | Maximum Hourly Rates. Travel will be charged on an hourly |
| Journeyman - Hourly Rate - Regular Hours | \$ 207.00 | \$ 177.0 | 0 14.29% | \$ 179.00 | ۰ ح | Maximum Hourly Rates. Travel will be charged on an hourly |
| Journeyman - Hourly Rate - Evening/Weekend/Holidays | \$ 367.00 | \$ 337.0 | 0 14.29% | \$ 179.00 | - \$ | Maximum Hourly Rates. Travel will be charged on an hourly |
| Apprentice 1 - Hourly Rate - Regular Hours | \$ 160.00 | \$ 130.0 | 0 14.29% | \$ 179.00 | • | Maximum Hourly Rates. Travel will be charged on an hourly |
| Apprentice 1 - Hourly Rate - Evening/Weekend/Holidays | \$ 270.00 | \$ 240.0 | 0 14.29% | \$ 179.00 | - \$ | Maximum Hourly Rates. Travel will be charged on an hourly |
| Apprentice 2 - Hourly Rate - Regular Hours | \$ 145.00 | \$ 115.0 | 0 14.29% | \$ 179.00 | • | Maximum Hourly Rates. Travel will be charged on an hourly |
| Apprentice 2 - Hourly Rate - Evening/Weekend/Holidays | \$ 243.00 | \$ 213.0 | 0 14.29% | \$ 179.00 | • | Maximum Hourly Rates. Travel will be charged on an hourly |
| Other Services | | | | | | |
| Description | Standard Price & | Discounted Price | e & Member | Per Diem Charges | Mileage Charges | Notes/Comments |
| prost prom | Rate | Rate | Savings | (daily rate, if any) | (per mile, if any) | |
| Rebate Fulfillment | | | 0.00% | | | TBD / Project Scope |
| Recycling Services | | | 0.00% | | | TBD / Project Scope |
| Training | \$ 195.00 | \$ 150.0 | 0 21.43% | \$ 179.00 | \$ 0.75 | Mileage calculations will start from the base location for the |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |
| | | | 0.00% | | | |

2.1 - LED Category Discount

*Please note this workbook has multiple tabs.

Instructions. Complete the following schedule for all categories of product offered (by catalog, category, and/or by manufacturer) which can include sub-categories (specific lines from manufacturers) and the discount associated with that category. The form should be completed by the standards listed in the Technical Specifications. Additional rows may be added. This is a required form **if proposing lighting solutions**.

| Responding Company's Name: | Voss Electric dba Voss Lighting | | | | | | | |
|-----------------------------------------|---------------------------------|---------------|--|--|--|--|--|--|
| | | REQUIRED FORM | | | | | | |
| Catalog/Category/Manufacturer Grouping | Discount Offered | Comments | | | | | | |
| VLRSP2023-C/ALEDDRA LED LIGHTING | 87% | | | | | | | |
| VLRSP2023-C/CREE | 87% | | | | | | | |
| VLRSP2023-C/EXITRONIX/BARRON | 87% | | | | | | | |
| VLRSP2023-C/GREEN CREATIVE | 87% | | | | | | | |
| VLRSP2023-C/GRIPLOCK SYSTEM | 87% | | | | | | | |
| VLRSP2023-C/HUBBELL | 87% | | | | | | | |
| VLRSP2023-C/LIGHT EFFICIENT DESIGN | 87% | | | | | | | |
| VLRSP2023-C/SIGNIFY | 87% | | | | | | | |
| VLRSP2023-C/TECHNICAL CONSUMER PRODUCTS | 87% | | | | | | | |
| VLRSP2023-C/VEOLIA | 87% | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| 5 |
|--------------|
| |
| |
| Б |
| 5 |
| Ы |
| 5 |
| |
| |
| \Box |
| 9 |
| |
| |
| 5 |
| 5 |
| |
| |
| |
| \mathbf{O} |
| |

*Please note this workbook has multiple tabs.

Instructions. Complete the form below if your company is offering additional discounts for a one time purchase, size of project, or a group of local agencies in a geographic area combining requirements (estimate annual spend). Please note this is an optional form.

| _ | | | | | | | | | | | | - |
|---------------------------------|------------------------------------|--|--|--|--|--|--|--|--|--|--|---|
| UPTIONAL FORM | Additional Discount Offered | | | | | | | | | | | |
| Voss Electric dba Voss Lighting | Catalog/Product/Manufacturer | | | | | | | | | | | |
| e | Dollar Amount To | | | | | | | | | | | |
| Responding Company's Nam | Dollar Amount From | | | | | | | | | | | _ |



Case Study St. Vincent de Paul School

| 14330 Eagle Run Drive, | Project Cost: | \$73,300 |
|-------------------------------|---------------------------------------|----------|
| Omaha, NE 68164 | Utility Company Rebate | \$8,823 |
| Facility Contact: Tom Peal | Annual Maintenance and Energy Savings | \$15,801 |
| 402-496-7988 | Simple Payback | 4 years |





Contact:

Randy Herrick Voss Lighting Customer Representative 402-850-9789 randy.herrick@vosslighting.com



Challenge

The school had invested in modern, architectural style troffers so replacing with new LED fixtures was not practical; but energy and lighting replacement costs were increasing. It was the desire of school leadership to decrease lighting costs as soon as possible.

Solution

Voss provided a solution that allowed the school to keep aesthetically attractive troffers. Ballasts and fluorescent lamps were removed, allowing for direct wiring to new LED lamps. To meet the school's desire to cut costs as quickly as possible, we began in early December upgrading the lighting in areas where students and staff would not be, such as storage and office areas. And then at Christmas Break, we focused on the classrooms, halls and all other areas normally occupied by students and teachers.

"Voss provided a solution for us to upgrade our lighting to LED without having to replace all our fixtures. They worked with us to get the project done as soon as possible versus waiting six months for summer vacation. And they did everything without interrupting the learning environment."

- Tom Peal, Facility Coordinator







Case Study Oakland Heights Nursing Home

| Facility Contact: | Project Cost: | \$50,639 |
|---------------------------------------------|-------------------------------------------------|--------------------------------------------|
| Roger Huber 402-685-5683 Oakland Heights | Funding Solution: | Five year lease (\$10,369.56 annually) |
| 207 S. Engdahl Avenue Oakland, NE 68045 | 1st Year Savings: (Projected to be cash flow | \$12,405 w positive entire lease term.) |





Contact:

Randy Herrick Voss Lighting Customer Service Representative 402-850-9789 *randy.herrick@vosslighting.com*

Challenge

Oakland Heights Nursing Home and Assisted Living Facility, a maturing facility, had older lighting technology and lacked adequate lighting in some areas. Without necessary funds to upgrade the lighting infrastructure, the facility continued to replace lamps and ballasts in ceiling fixtures as they failed and delayed the addition of new lighting fixtures. This reactive approach and delaying facility improvements is common in facilities with tight operating budgets.

Solution

Voss and Oakland Heights Administrator and maintenance staff identified the right lighting fixtures to improve indoor lighting, reduce energy and maintenance costs, improve maintenance staff efficiency and employee morale. Voss then put together a lease purchase plan, allowing Oakland Heights to fund the improvements with the generated savings. With no down payment requirement, the project was able to be completed and paid for from within the existing operating budget.

"Partnering with Voss Lighting allowed us to upgrade our facility's lighting without the need for capital funds or added expense in our operating budget. Voss Lighting was able to show us how to fund our project with the energy and maintenance savings generated from the upgrade."

David Deemer, Oakland Heights Administrator



vosslighting.com





Case Study Concordia Lutheran Junior & Senior High School

| Address City State zin | Project Cost: | \$18,970 |
|---------------------------|---------------------------------------------------|----------|
| Only, Otate Zip | Projected Annual Savings: | \$4,800 |
| Contact: | | ф 1,000 |
| Rob Cooksey | The school is realizing more savings than project | ed by |
| ###.###### | running lights at 70% brightness during regular h | ours. |





Contact:

Randy Herrick Voss LIghting Customer Service Representative 402-850-9789 randy.herrick@vosslighting.com



Challenge

The School uses the gym for athletic activities, fine arts performances and graduation. Each one has unique lighting needs. With only one full size gym, it is used continuously, up to 16 hours per day. The energy cost to keep lights on for that long was a concern.

Goal

Reduce energy consumption, lower operating costs, provide a user-friendly way to dim and control overall lighting, and provide a "wow-factor" for events.

Solution

Reduced the number of high bay fixtures by almost 30%, from 53 to 38. Reduced the wattage per fixture by 45%, from 324W to 177W. The new system can be control either by a wall mounted pad or wirelessly via a phone or tablet app. Customized lighting options can be pre-programed to do such things as light up specific areas of the gym while other areas remain dark or at a lower light level.

"This was a total solutions opportunity for Concordia as opposed to just hiring an electrician. Beginning with an energy audit and concluding with installation and product training, Voss was focused on our needs as the customer and end user. They improved lighting, control of lighting, and efficiency so that the project will quickly pay for itself in savings." — Head of School, Rob Cooksey









vosslighting.com

LED Upgrade Audit: Elmwood Elementary

Prepared by: Randy Herrick Voss Lighting 09/05/2023

Data is proprietary and confidential.

TABLE OF CONTENTS

| Executive Summary | . 1 |
|-----------------------------------------|-----|
| Project Summary | . 2 |
| Cash Flow Analysis | 3 |
| Savings Summary | 4 |
| Environmental Impact | 5 |
| Fixture Detail w/ Area and Room Payback | 6 |



Executive Summary



Elmwood Elementary

| General Scope of Proposed Work | Existing | After Retrofit |
|-------------------------------------------|----------|----------------|
| Number of Fixtures | 631 | 631 |
| Lighting System Energy Consumption (kW) | 54.033 | 26.064 |
| Current Utility Rate - \$/kWh | \$0.0940 | |
| | | |
| Energy & Demand Reduction | | |
| Kilowatt-Hours (kWh) Reduced | | 122,504 |
| | | |
| Savings Summary | | |
| First Year Total Savings | | \$17,324 |
| | | |
| Financial Summary | | |
| Project Cost | | \$93,080.00 |
| Less Rebates | | \$0.00 |
| Net Project Cost | | \$93,080.00 |
| | | |
| Simple Payback | | 5.4 yrs |
| Overall Simple Return on Investment (ROI) | | 18.44% |
| Net Present Value (NPV) | | \$33,546.88 |
| Internal Rate of Return (IRR) | | 13.09% |
| | | |
| Monthly Cost of Delay | | \$1,443.68 |

| entary | |
|--------|-------|
| l Elem | rade |
| poowu | D Upg |
| E | Ш |



Cash Flow Analysis

| | Year | Year | Year | Year | Year | Year | Year | Year | Year | Year | Year |
|---------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Cash Outflows | 0 | - | 2 | ი | 4 | 2 | 9 | 7 | 80 | 6 | 10 |
| Investment | \$93,080 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Down Payment | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Financed Investment | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| SUBTOTAL OUTFLOWS | \$93,080 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Cash Inflows | | | | | | | | | | | |
| Energy | \$0 | \$11,515 | \$11,515 | \$11,515 | \$11,515 | \$11,515 | \$11,515 | \$11,515 | \$11,515 | \$11,515 | \$11,515 |
| HVAC | \$0 | \$1,577 | \$1,577 | \$1,577 | \$1,577 | \$1,577 | \$1,577 | \$1,577 | \$1,577 | \$1,577 | \$1,577 |
| Maintenance | \$0 | \$4,232 | \$4,232 | \$4,073 | \$4,073 | \$4,073 | \$4,073 | \$4,073 | \$4,073 | \$4,073 | \$4,073 |
| Rebates | \$0 | 0\$ | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| SUBTOTAL INFLOWS | \$0 | \$17,324 | \$17,324 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 |
| TOTAL CASH FLOWS | -\$93,080 | \$17,324 | \$17,324 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 | \$17,165 |
| Present Value (PV) | -\$93,080 | \$16,343 | \$15,418 | \$14,412 | \$13,596 | \$12,827 | \$12,101 | \$11,416 | \$10,769 | \$10,160 | \$9,585 |



Savings Summary

The following tables show the annual energy and cost savings expected with the proposed design, based on annual usage hours and a utility rate of \$0.094000 per kWh.

| Energy Savings | | Financial Sa | vings |
|----------------------------|-------------|-----------------------------|--------------|
| Current kWh | 236,665 | Cost of Project | \$93,080.00 |
| Current Demand (kW) | 54.033 | Rebates | \$.00 |
| Current Annual Energy Cost | \$22,246.00 | Net Cost | \$93,080.00 |
| Projected kWh | 114,160 | Annual Energy & HVAC Cost | \$13,091.93 |
| Projected Demand (kW) | 26.064 | Annual Maintenance Cost | \$4,232.17 |
| Projected Ann. Energy Cost | \$10,731.00 | Total Annual Cost Savings | \$17,324.10 |
| Annual kWh Savings | 122,504 | Simple Payback (Years) | 5.4 |
| Annual kW Savings | 27.969 | Return on Investment | 18.44% |
| Annual Energy Cost Savings | \$11,515 | Estimated Lifecycle Savings | \$173,241.04 |

The Cost of Waiting \$250,000 \$200,000 \$150,000 \$100,000 \$50,000 \$0 2 3 5 4 6 7 8 9 10 1 10 8 6 - Cost with Upgrade \$103,811 \$114,542 \$125,273 \$136,004 \$146,735 \$157,466 \$168,197 \$178,928 \$189,659 \$200,390 \$26,478 \$105,913 \$158,869 \$211,825 \$238,304 - Cost of Waiting \$52,956 \$79,435 \$132,391 \$185,347 \$264,782

Cumulative Costs Over 10 Year Lifecycle (\$)

(Graph based on Single Investment project data)



Annual Environmental Impact

Sustainability objectives for companies are not only required by some government agencies, but it is also just good business. The fact is that greenhouse gas emissions are an enormous contributor to pollution. Outlined below is the projected environmental impact your new lighting system will have that includes the reduction in the amount of CO2, N2O and CH4 that you can avoid with the installation of your new lighting solution. Reducing 122,504 kWh per year on this project is equivalent to:



189,863 lbs. CO₂ Saved Leading Cause of Global Warming

- OR -



18.2 Cars Removed from Road (4.73 metric tons of CO2 / Passenger Vehicle)

- OR -



9,691 Gallons of Gas Consumed (0.008887 metric ton of CO2 per gallon of gasoline)

- OR -



2,208 Tree Seedlings Grown (0.039 metric ton CO2 per urban tree planted for 10 years)

- OR -



81.2 Acres of Forest in 1 Year (1.06 metric tons CO2 sequestered annually by 1 acre U.S. forest)

Cited using http://www.epa.gov/cleanenergy/energy-resources/calculator

| wood Elementary | 0 Upgrade |
|-----------------|-----------|
| Elmw | |



Fixture Detail

| | ľ | 631 | 1 | 236,665 | | | 631 | - | | 114,160 | l | \$0 | \$11,515 | \$1,577 | \$4,232 | 5.4 |
|---|-------|---------|-------|---------|----------------------------------------|-------|-------|----------|-------|---------|----------|---------|----------|------------|----------------|--------|
| | ŵ | kisting | | | | | Propo | sed Solu | tion | | | | | Savings | | |
| | Watts | ð | Burn | kWh | Proposed | Watts | ð | % Red. | Burn | kWh | ctrl Qty | Rebates | Energy | HVAC | Maintenance Pa | ayback |
| | | 28 | | 10,214 | | | 28 | | | 4,906 | | \$0 | \$499 | \$68 | \$188 | 7.7 |
| | 59.0 | 4 | 4,380 | 1,034 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 4 | 0 | 4,380 | 701 | 0 | \$0 | \$31 | \$ | \$24 | |
| | 93.0 | 12 | 4,380 | 4,888 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 12 | 0 | 4,380 | 2,102 | 0 | 0\$ | \$262 | \$30 \$ | \$84 | |
| | 93.0 | 4 | 4,380 | 1,629 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 4 | 0 | 4,380 | 701 | 0 | 0 | \$87 | \$12 | \$28 | |
| | 59.0 | 7 | 4,380 | 517 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 5 | 0 | 4,380 | 350 | 0 | 0\$ | \$16 | \$2 | \$12 | |
| | 93.0 | 4 | 4,380 | 1,629 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 4 | 0 | 4,380 | 701 | 0 | 0\$ | \$87 | \$12 | \$28 | |
| | 59.0 | 7 | 4,380 | 517 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 2 | 0 | 4,380 | 350 | 0 | 0 | \$16 | \$ | \$12 | |
| Ľ | ooms | 552 | | 181,625 | | | 552 | | | 85,795 | | \$0 | \$9,008 | \$1,233 | \$3,544 | 5.8 |
| | 59.0 | 0 | 4,380 | 517 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | ~ | 0 | 4,380 | 350 | 0 | \$0 | \$16 | \$ | \$12 | |
| | 93.0 | 0 | 4,380 | 815 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 0 | 0 | 4,380 | 350 | 0 | \$0 | \$44 | \$0 | \$14 | |
| | 93.0 | 4 | 4,380 | 1,629 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 4 | 0 | 4,380 | 701 | 0 | 0\$ | \$87 | \$12 | \$28 | |
| | 93.0 | 22 | 4,380 | 8,961 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 22 | 0 | 4,380 | 3,854 | 0 | 0 | \$480 | \$66 | \$154 | |
| | 93.0 | 15 | 4,380 | 6,110 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 15 | 0 | 4,380 | 2,628 | 0 | \$0 | \$327 | \$45 | \$105 | |
| | 59.0 | 4 | 4,380 | 1,034 | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 40.0 | 4 | 0 | 4,380 | 701 | 0 | \$0 | \$31 | \$ | \$24 | |

Elmwood Elementary LED Upgrade



| ~ | | ~ | ~ | | | | | | 10 | | | | <i>c</i> · | | |
|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------------------|----------------------------------------|--|
| \$185 | \$98 | \$168 | \$168 | \$50 | \$42 | \$14 | \$12 | \$10 | \$275 | \$12 | \$14 | \$18 | \$112 | \$28 | |
| \$81 | \$42 | \$72 | \$72 | \$24 | \$18 | 0 Å | \$2 | () () | \$49 | \$2 | 0 Å | С Ф | \$48 | \$12 | |
| \$589 | \$305 | \$524 | \$524 | \$175 | \$131 | \$44 | \$16 | \$25 | \$360 | \$16 | \$44 | \$47 | \$349 | \$87 | |
| 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | \$ | \$ | 0\$ | \$0 | \$ | \$ | \$0 | \$0 | \$ | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4,730 | 2,453 | 4,205 | 4,205 | 1,402 | 1,051 | 350 | 350 | 193 | 8,059 | 350 | 350 | 276 | 2,803 | 701 | |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 27 | 14 | 24 | 24 | 00 | 9 | 5 | 5 | 00 | 46 | 5 | 5 | e | 16 | 4 | |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 5.5 | 40.0 | 40.0 | 40.0 | 21.0 | 40.0 | 40.0 | |
| DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 1L GREEN CREATIVE GRNLEDPL1840K5 5WBP | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 2L PHILIPS PHLLEDT84884010 WBB | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | |
| 10,998 | 5,703 | 9,776 | 9,776 | 3,259 | 2,444 | 815 | 517 | 456 | 11,887 | 517 | 815 | 775 | 6,517 | 1,629 | |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | |
| 27 | 4 | 24 | 24 | 00 | 0 | 2 | 7 | 00 | 46 | 2 | 7 | c | 16 | 4 | |
| 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 59.0 | 13.0 | 59.0 | 59.0 | 93.0 | 59.0 | 93.0 | 93.0 | |
| F-F32T8-3 | F-F32T8-2 | CFL-CF13W-1 | F-F32T8-2 | F-F32T8-2 | F-F32T8-3 | F-F32T8-2 | F-F32T8-3 | F-F32T8-3 | |
| Children 19;s 2 | Children 19;s 102 | 107/104 | 105/106 | Paraeducator | Title One | Caf Bathrooms | Caf Bathrooms 2 | Caf Bathrooms 3 | Cafeteria | IT Closet | Tech Coordinator | Mech Room | Music Room | Music Studios | |

Elmwood Elementary LED Upgrade



| \$98 | \$42 | \$84 | \$168 | \$168 | \$168 | \$42 | \$21 | \$84 | \$63 | \$60 | \$28 | \$213 | \$43 | \$14 | \$335 |
|----------------------------------------|----------------------------------------|--------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------------|----------------------------------------|
| \$42 | \$18 | \$30 | \$72 | \$72 | \$72 | \$18 | 0 \$ | \$36 | \$27 | \$11 | \$12 | \$52 | 00 69 | \$10 | \$60 |
| \$305 | \$131 | \$219 | \$524 | \$524 | \$524 | \$131 | \$65 | \$262 | \$196 | \$78 | \$87 | \$383 | \$ 20 | \$76 | \$438 |
| 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | \$0 | 0\$ | 0 | 0 | 0\$ |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2,453 | 1,051 | 1,288 | 4,205 | 4,205 | 4,205 | 1,051 | 526 | 2,102 | 1,577 | 1,752 | 701 | 2,746 | 434 | 596 | 9,811 |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 9 | 14 | 24 | 24 | 24 | 9 | ŝ | 12 | 6 | 10 | 4 | 19 | 18 | 4 | 56 |
| 40.0 | 40.0 | 21.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 33.0 | ວ.ວ | 34.0 | 40.0 |
| DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 2L PHILIPS PHLLEDT84884010 WBB | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ38B8402- DS-UNV-DIM | 1L GREEN CREATIVE GRNLEDPL1840K5 5WBP | 2L GREEN CREATIVE GRNLEDPLL2440K 17WBP | DAYBRITE DCO2FPZ42B8404 DSUNVDIM |
| 5,703 | 2,444 | 3,618 | 9,776 | 9,776 | 9,776 | 2,444 | 1,222 | 4,888 | 3,666 | 2,584 | 1,629 | 6,824 | 1,025 | 1,402 | 14,472 |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 |
| 14 | 9 | 14 | 24 | 24 | 24 | 9 | ŝ | 12 | 6 | 10 | 4 | 19 | 18 | 4 | 56 |
| 93.0 | 93.0 | 59.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 59.0 | 93.0 | 82.0 | 13.0 | 80.0 | 59.0 |
| F-F32T8-3 | F-F32T8-3 | F-F32T8-2 | F-F32T8-3 | F-F32T8-2 | F-F32T8-3 | UFL-FU31T8/3- 3 | CFL-CF13W-1 | CFL-CF40W-2 | F-F32T8-2 |
| Caf Kitchen | Caf Bathrooms 2 | Old Locker | 206/205 | 204/207 | 203/208 | 202 | Classroom Storage | 209 | 201 | Teacher Work Area | Guided Reading | Library | Library 2 | Library 3 | Hallways |

Tuesday, September 05, 2023

| wood Elementary |) Uparade |
|-----------------|-----------|
| Elmwo | ED U |



| | | | | | | 3.3 | | | | | | | | | |
|--------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|------------------------------------------------|-------------------------------------------------|-------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| \$156 | 06\$ | \$28 | \$14 | \$3 8 | \$7 | \$500 | \$280 | \$48 | \$40 | \$12 | 89 89 | \$12 | \$40 | \$12 | 00 69 |
| \$50 | \$16 | \$12 | \$ \$ | 2\$ | CJ CJ | \$275 | \$171 | \$17 | \$20 | 00 69 | \$4 | \$ 4 | \$20 | 00 69 | \$4 |
| \$407 | \$117 | \$87 | \$44 | \$49 | \$38 | \$2,008 | \$1,252 | \$125 | \$144 | \$22 \$ | \$29 | \$31 | \$144 | \$55 | \$29 |
| 0\$ | 0\$ | \$0 | 0\$ | 0\$ | 0\$ | \$0 | 0\$ | \$0 | 0\$ | \$0 | \$0 | \$0 | \$0 | 0\$ | \$0 |
| 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2,391 | 2,628 | 701 | 350 | 385 | 298 | 23,459 | 18,221 | 736 | 920 | 596 | 184 | 184 | 920 | 596 | 184 |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 |
| 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 15 | 4 | 0 | 16 | 2 | 51 | 20 | 00 | Ω | 0 | ~ | 2 | Ω | 5 | ~ |
| 21.0 | 40.0 | 40.0 | 40.0 | 5.5 | 34.0 | | 208.0 | 21.0 | 42.0 | 68.0 | 42.0 | 21.0 | 42.0 | 68.0 | 42.0 |
| 2L PHILIPS PHLLEDT84884010 WBB | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 1L GREEN CREATIVE GRNLEDPL1840K5 5WBP | 2L GREEN CREATIVE GRNLEDPLL2440K 17WBP | | DAYBRITE DCOFBY30L840UN V | 2L PHILIPS PHLLEDT84884010 WBB | 4L PHILIPS PHLLEDT84884010 WBB | 2L PHILIPS PHLLEDT89685034 WBB | 4L PHILIPS PHLLEDT84884010 WBB | 2L PHILIPS PHLLEDT84884010 WBB | 4L PHILIPS PHLLEDT84884010 WBB | 2L PHILIPS PHLLEDT89685034 WBB | 4L PHILIPS PHLLEDT84884010 Web |
| 6,719 | 3,876 | 1,629 | 815 | 911 | 701 | 44,825 | 31,536 | 2,067 | 2,453 | 1,183 | 491 | 517 | 2,453 | 1,183 | 491 |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 |
| 26 | 15 | 4 | 0 | 16 | 2 | 51 | 20 | 00 | Q | 0 | ~ | 7 | Q | 7 | ~ |
| 59.0 | 59.0 | 93.0 | 93.0 | 13.0 | 80.0 | | 360.0 | 59.0 | 112.0 | 135.0 | 112.0 | 59.0 | 112.0 | 135.0 | 112.0 |
| F-F32T8-2 | F-F32T8-2 | F-F32T8-3 | F-F32T8-3 | CFL-CF13W-1 | CFL-CF40W-2 | ym | F-F54T5HO-6 | F-F32T8-2 | F-F32T8-4 | F-F96T12-2 | F-F32T8-4 | F-F32T8-2 | F-F32T8-4 | F-F96T12-2 | F-F32T8-4 |
| Perimeter Hallways | Hallways 2 | Conference Room | Speech | Hall Cans | Hall Fixtures | Elmwood / G | Gym | Stage | Boys Locker | Boys Storage | Boys Shower | Boys Shower 2 | Girls Locker | Girls Storage | Girls Shower |

| nwood Elementary | D Upgrade |
|------------------|-----------|
| Elmv | LED |



| | | 5.4 |
|------------|--------------------------|----------|
| | 0 | 32 |
| | \$4(| \$4,23 |
| | \$20 | \$1,577 |
| | \$144 | \$11,515 |
| | \$0 | \$0 |
| | 0 | |
| | 920 | 114,160 |
| | 4,380 | |
| | 0 | |
| | 2 | 631 |
| | 42.0 | |
| 4L PHILIPS | PHLLEDT84884010 WBB | |
| | 2,453 | 236,665 |
| | 4,380 | |
| | Q | 631 |
| | 112.0 | |
| | Girls Shower 2 F-F32T8-4 | Totals |





vosslighting.com

LED Upgrade Audit: Murdock School

Prepared by: Randy Herrick Voss Lighting 09/05/2023

Data is proprietary and confidential.

TABLE OF CONTENTS

| Executive Summary | . 1 |
|-----------------------------------------|-----|
| Project Summary | . 2 |
| Cash Flow Analysis | 3 |
| Savings Summary | 4 |
| Environmental Impact | 5 |
| Fixture Detail w/ Area and Room Payback | 6 |



Executive Summary

We understand that organizations like yours are always looking for ways to reduce costs, increase efficiency and minimize your environmental footprint. Voss Lighting has performed a comprehensive lighting audit to identify ways to meet those objectives.

We have created a proposal that details solutions to meet those goals including estimated material and labor costs, energy and maintenance savings and potential return on investment. This proposal summarizes the value to your company when you move forward with this project.

This proposal is guaranteed for 30 days from proposal date. After 30 days, our pricing will be reviewed for any necessary adjustments related to material and expense costs, and other related costs that may be affected by an extended approval period. Due to recent and future trade tariffs on Chinese goods and general price increases, all quotes are subject to change at the time of order being place.

Randy Herrick randy.herrick@vosslighting.com



Murdock School

| General Scope of Proposed Work | Existing | After Retrofit |
|-------------------------------------------|----------|----------------|
| Number of Fixtures | 717 | 717 |
| Lighting System Energy Consumption (kW) | 63.578 | 33.476 |
| Current Utility Rate - \$/kWh | \$0.0940 | |
| | | |
| Energy & Demand Reduction | | |
| Kilowatt-Hours (kWh) Reduced | | 131,849 |
| | | |
| Savings Summary | | |
| First Year Total Savings | | \$18,900 |
| | | |
| Financial Summary | | |
| Project Cost | | \$113,595.00 |
| Less Rebates | | \$0.00 |
| Net Project Cost | | \$113,595.00 |
| | | |
| Simple Payback | | 6.0 yrs |
| Overall Simple Return on Investment (ROI) | | 16.47% |
| Net Present Value (NPV) | | \$24,424.42 |
| Internal Rate of Return (IRR) | | 10.34% |
| | | |
| Monthly Cost of Delay | | \$1,574.98 |

| rdock School | D Upgrade |
|--------------|-----------|
| Murd | LED |



Cash Flow Analysis

| | Year | Year | Year | Year | Year | Year | Year | Year | Year | Year | Year |
|---------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Cash Outflows | 0 | - | 2 | ю | 4 | 2 | 9 | 7 | œ | ൭ | 10 |
| Investment | \$113,595 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Down Payment | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Financed Investment | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| SUBTOTAL OUTFLOWS | \$113,595 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Cash Inflows | | | | | | | | | | | |
| Energy | \$0 | \$12,394 | \$12,394 | \$12,394 | \$12,394 | \$12,394 | \$12,394 | \$12,394 | \$12,394 | \$12,394 | \$12,394 |
| HVAC | \$0 | \$1,697 | \$1,697 | \$1,697 | \$1,697 | \$1,697 | \$1,697 | \$1,697 | \$1,697 | \$1,697 | \$1,697 |
| Maintenance | \$0 | \$4,809 | \$4,809 | \$4,613 | \$4,613 | \$4,613 | \$4,613 | \$4,613 | \$4,613 | \$4,613 | \$4,613 |
| Rebates | \$0 | 0\$ | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| SUBTOTAL INFLOWS | \$0 | \$18,900 | \$18,900 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 |
| TOTAL CASH FLOWS | -\$113,595 | \$18,900 | \$18,900 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 | \$18,704 |
| Present Value (PV) | -\$113,595 | \$17,830 | \$16,821 | \$15,704 | \$14,815 | \$13,976 | \$13,185 | \$12,439 | \$11,735 | \$11,071 | \$10,444 |



Savings Summary

The following tables show the annual energy and cost savings expected with the proposed design, based on annual usage hours and a utility rate of \$0.094000 per kWh.

| Energy Savings | | Financial Savir | ıgs |
|----------------------------|-------------|-----------------------------|--------------|
| Current kWh | 278,472 | Cost of Project | \$113,595.00 |
| Current Demand (kW) | 63.578 | Rebates | \$.00 |
| Current Annual Energy Cost | \$26,176.00 | Net Cost | \$113,595.00 |
| Projected kWh | 146,623 | Annual Energy & HVAC Cost | \$14,090.59 |
| Projected Demand (kW) | 33.476 | Annual Maintenance Cost | \$4,809.19 |
| Projected Ann. Energy Cost | \$13,783.00 | Total Annual Cost Savings | \$18,899.79 |
| Annual kWh Savings | 131,849 | Simple Payback (Years) | 6.0 |
| Annual kW Savings | 30.103 | Return on Investment | 16.47% |
| Annual Energy Cost Savings | \$12,394 | Estimated Lifecycle Savings | \$188,997.86 |

The Cost of Waiting

\$300,000 \$250,000 \$200,000 \$150,000 \$100,000 \$50,000 \$0 3 5 2 4 6 7 8 9 10 1 10 8 1 6 - Cost with Upgrade \$127,378 \$141,161 \$154,944 \$168,727 \$182,510 \$196,293 \$210,076 \$223,859 \$237,642 \$251,425 \$30,985 \$123,941 \$185,911 - Cost of Waiting \$61,970 \$92,956 \$154,926 \$216,896 \$247,882 \$278,867 \$309,852

Cumulative Costs Over 10 Year Lifecycle (\$)

(Graph based on Single Investment project data)



Annual Environmental Impact

Sustainability objectives for companies are not only required by some government agencies, but it is also just good business. The fact is that greenhouse gas emissions are an enormous contributor to pollution. Outlined below is the projected environmental impact your new lighting system will have that includes the reduction in the amount of CO2, N2O and CH4 that you can avoid with the installation of your new lighting solution. Reducing 131,849 kWh per year on this project is equivalent to:



204,346 lbs. CO₂ Saved Leading Cause of Global Warming

- OR -



19.6 Cars Removed from Road (4.73 metric tons of CO2 / Passenger Vehicle)

- OR -



10,430 Gallons of Gas Consumed (0.008887 metric ton of CO2 per gallon of gasoline)

- OR -



2,377 Tree Seedlings Grown (0.039 metric ton CO2 per urban tree planted for 10 years)

- OR -



87.4 Acres of Forest in 1 Year (1.06 metric tons CO2 sequestered annually by 1 acre U.S. forest)

Cited using http://www.epa.gov/cleanenergy/energy-resources/calculator

| ck School | Ipgrade |
|-----------|---------|
| lurdoc | ED Ur |
| > | - 1 |



Fixture Detail

| Savings | ergy HVAC Maintenance Payback | | 434 435 V21 0.0 | 4.4 0.5 4.21 0.5 | 5.6 5.11 5.60 5.11 5.60 5.13 5.26 5.13 5.26 | 4.4 9.9 9.1 5.0 7.1 5.0 5.1 5.0 5.1 5.0 5.1 5.0 5.1 5.1 5.0 5.1 5.1 5.0 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 | 4.04 9.05 9.11 560 578 \$11 \$60 513 \$26 526 \$13 53 \$13 56 \$76 51 \$76 51 \$76 51 \$76 51 \$76 51 \$576 | 4.34 9.03 9.11 5.01 9.11 5.01 513 \$13 \$26 \$13 \$26 \$14 \$15 \$15 \$14 \$16 \$14 \$15 \$14 \$15 \$14 \$15 \$15 \$14 \$16 \$21 \$15 \$15 \$15 \$15 \$16 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 \$28 | 5/3 5/2 5/2 5/2 5/8 \$11 \$60 5/3 \$13 \$26 5/3 \$13 \$26 5/3 \$13 \$26 5/2 \$8 \$76 5/3 \$15 \$76 5/3 \$16 \$21 5/3 \$12 \$28 5/3 \$1,484 6.9 | 4.34 503 511 50 578 \$11 \$60 633 \$13 \$26 114 \$16 \$76 114 \$16 \$21 127 \$28 \$76 587 \$16 \$21 587 \$12 \$28 590 \$534 \$1,484 502 \$53 \$1,484 503 \$9 \$48 | 4.44 503 511 560 578 \$11 \$60 593 \$13 \$26 513 \$26 513 \$26 513 \$26 513 \$26 514 \$16 \$21 \$21 51 \$14 \$15 \$13 \$02 \$534 \$15 \$48 \$203 \$28 \$156 \$156 | 4.44 5.33 5.11 5.60 578 \$13 \$26 62 \$8 \$76 62 \$8 \$76 63 \$13 \$26 64 \$13 \$26 62 \$8 \$76 63 \$15 \$28 50 \$53 \$1,484 63 \$9 \$48 503 \$28 \$1,66 647 \$6 \$18 | 4.4 5.5 5.11 5.60 578 \$11 \$60 \$26 593 \$13 \$26 \$1 513 \$13 \$26 \$1 513 \$13 \$26 \$1 514 \$16 \$21 \$2 512 \$16 \$21 \$2 502 \$534 \$1,484 6.9 503 \$29 \$48 \$1 513 \$28 \$1,484 6.9 513 \$534 \$1,484 6.9 514 \$6 \$156 \$156 547 \$6 \$156 \$18 547 \$6 \$156 \$18 547 \$6 \$18 \$18 547 \$6 \$18 \$18 | 4.4 5.0 5.11 5.0 578 \$11 \$60 593 \$13 \$26 513 \$26 513 \$26 513 \$26 513 \$26 513 \$26 514 \$14 515 \$28 502 \$534 512 \$28 503 \$534 513 \$1,484 63 \$156 64 \$16 58 \$156 58 \$156 58 \$156 58 \$156 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | s Energy HVAC | \$434 \$59 | | \$78 | \$78 \$11 \$93 \$13 | \$78 \$11 \$93 \$13 \$62 \$8 | \$78 \$11 \$93 \$13 \$62 \$8 \$13 \$13 \$13 \$14 \$16 | \$78 \$11 \$93 \$13 \$62 \$8 \$114 \$16 \$17 \$16 \$17 \$38 | \$78 \$11 \$93 \$13 \$62 \$8 \$13 \$62 \$8 \$16 \$114 \$16 \$15 \$87 \$12 \$3 302 \$534 | \$78 \$11 \$93 \$13 \$62 \$13 \$62 \$13 \$13 \$13 \$13 \$14 \$15 \$14 \$16 \$114 \$16 \$13 \$13 \$14 \$15 \$13 \$13 \$13 \$14 \$15 \$13 \$15 \$13 \$15 \$15 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$13 \$14 \$16 \$11 \$15 \$12 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$12 \$13 \$14 \$14 \$15 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$13 \$14 \$14 \$14 \$15 \$14 \$15 \$15<td> \$78 \$11 \$93 \$13 \$93 \$13 \$62 \$87 \$16 \$114 \$16 \$114 \$16 \$13 \$14 \$15 \$15 \$15 \$16 \$114 \$15 \$15 \$15 \$15 \$16 \$114 \$15 \$15 \$15 \$15 \$16 \$14 \$15 \$15 \$16 \$114 \$15 \$15 \$15 \$16 \$114 \$16 \$114 \$114 \$115 \$114 \$114 \$114 \$114 \$115 \$114 \$116 \$114 \$114 \$116 \$114 <li< td=""><td>\$78 \$11 \$93 \$13 \$82 \$13 \$62 \$8 \$114 \$16 \$114 \$16 \$114 \$16 \$13 \$13 \$53 \$12 \$53 \$12 \$3,902 \$534 \$53 \$53 \$53 \$53 \$503 \$28 \$203 \$28 \$547 \$6</td><td>\$78 \$11 \$93 \$13 \$62 \$13 \$62 \$13 \$62 \$13 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$115 \$12 \$12 \$53 \$563 \$534 \$563 \$28 \$503 \$28 \$573 \$56 \$47 \$6 \$47 \$6</td><td>\$78 \$11 \$93 \$13 \$93 \$13 \$62 \$8 \$114 \$16 \$114 \$16 \$114 \$16 \$52,902 \$534 \$53,902 \$534 \$47 \$6 \$47 \$6 \$58 \$8 \$58 \$53 \$58 \$53 \$53 \$53 \$53 \$58 \$58 \$58</td></li<></td> | \$78 \$11 \$93 \$13 \$93 \$13 \$62 \$87 \$16 \$114 \$16 \$114 \$16 \$13 \$14 \$15 \$15 \$15 \$16 \$114 \$15 \$15 \$15 \$15 \$16 \$114 \$15 \$15 \$15 \$15 \$16 \$14 \$15 \$15 \$16 \$114 \$15 \$15 \$15 \$16 \$114 \$16 \$114 \$114 \$115 \$114 \$114 \$114 \$114 \$115 \$114 \$116 \$114 \$114 \$116 \$114 <li< td=""><td>\$78 \$11 \$93 \$13 \$82 \$13 \$62 \$8 \$114 \$16 \$114 \$16 \$114 \$16 \$13 \$13 \$53 \$12 \$53 \$12 \$3,902 \$534 \$53 \$53 \$53 \$53 \$503 \$28 \$203 \$28 \$547 \$6</td><td>\$78 \$11 \$93 \$13 \$62 \$13 \$62 \$13 \$62 \$13 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$115 \$12 \$12 \$53 \$563 \$534 \$563 \$28 \$503 \$28 \$573 \$56 \$47 \$6 \$47 \$6</td><td>\$78 \$11 \$93 \$13 \$93 \$13 \$62 \$8 \$114 \$16 \$114 \$16 \$114 \$16 \$52,902 \$534 \$53,902 \$534 \$47 \$6 \$47 \$6 \$58 \$8 \$58 \$53 \$58 \$53 \$53 \$53 \$53 \$58 \$58 \$58</td></li<> | \$78 \$11 \$93 \$13 \$82 \$13 \$62 \$8 \$114 \$16 \$114 \$16 \$114 \$16 \$13 \$13 \$53 \$12 \$53 \$12 \$3,902 \$534 \$53 \$53 \$53 \$53 \$503 \$28 \$203 \$28 \$547 \$6 | \$78 \$11 \$93 \$13 \$62 \$13 \$62 \$13 \$62 \$13 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$114 \$16 \$115 \$12 \$12 \$53 \$563 \$534 \$563 \$28 \$503 \$28 \$573 \$56 \$47 \$6 \$47 \$6 | \$78 \$11 \$93 \$13 \$93 \$13 \$62 \$8 \$114 \$16 \$114 \$16 \$114 \$16 \$52,902 \$534 \$53,902 \$534 \$47 \$6 \$47 \$6 \$58 \$8 \$58 \$53 \$58 \$53 \$53 \$53 \$53 \$58 \$58 \$58 |
| Rebates Energy | | \$0 \$434 | \$78 | | \$0 \$ | \$0 \$ \$0 \$ | \$0 \$93 \$0 \$62 \$0 \$52 \$0 \$5114 | \$0 \$93 \$0 \$62 \$0 \$114 \$0 \$114 | \$0 \$93 \$0 \$62 \$0 \$114 \$0 \$37 \$0 \$3,302 | \$0 \$93 \$0 \$62 \$0 \$114 \$0 \$3,902 \$0 \$63 | \$0 \$93 \$0 \$62 \$0 \$114 \$0 \$87 \$0 \$3302 \$0 \$3203 | \$0 \$93 \$0 \$62 \$0 \$114 \$0 \$174 \$0 \$1302 \$0 \$3302 \$0 \$53 \$0 \$53 \$0 \$53 | \$0 \$93 \$0 \$62 \$0 \$62 \$0 \$114 \$0 \$114 \$0 \$114 \$0 \$114 \$0 \$114 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$50 \$0 \$47 \$0 \$47 | \$0 \$93 \$0 \$62 \$0 \$114 \$0 \$114 \$0 \$114 \$0 \$13 \$0 \$13 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$3,902 \$0 \$563 \$0 \$477 \$0 \$563 \$0 \$563 |
| Ctrl Qty Rebates \$0 0 \$0 | 0 | 0\$ | | 0\$ | | 0\$ | 0 0 | 20 2 | • • • • • | | O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O | | | |
| KWh Ctrl Q 3,900 1,752 0 1,752 0 265 0 | 3,900 1,752 0 265 0 | 1,752 0 265 0 | 265 0 | | 289 0 | | 894 0 | 894 0 701 0 | 894 0 701 0 38,728 | 894 0 701 0 38,728 1,402 0 | 894 0 701 0 38,728 1,402 0 1,402 0 | 894 0 701 0 38,728 0 1,402 0 4,555 0 | 894 0 701 0 38,728 1,402 0 4,555 0 276 0 276 0 | 894 0 701 0 38,728 1,402 0 4,555 0 276 0 1,051 0 1,051 0 |
| % Red. Burn 0 4,380 0 4,380 | 0 4,380 4 380 4 380 | 0 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,380 4,38 | 0 4.380 | | 0 4,380 | | 0 4,380 | 0 4,380 0 4,380 | 0 4,380 | 0 4,380 0 4,380 0 4,380 | 0 4,380 0 4,380 0 4,380 0 4,380 | 0 4,380 0 4,380 0 4,380 0 4,380 0 4,380 | 0 4,380 0 4,380 0 4,380 0 4,380 0 4,380 0 4,380 | 0 4,380 0 4,380 0 4,380 0 4,380 0 4,380 0 4,380 0 4,380 |
| sed Watts Qty % F 43 2B8404 40.0 10 -1840K5 5.5 11 | 43 2B8404 40.0 10 .1840K5 5.5 11 | 288404 40.0 10 1840K5 5.5 11 | .1840K5 5.5 11 | | .1840K5 5.5 12 | L2440K 34.0 6 | | 2B8404 40.0 4 | 2B8404 40.0 4 223 | 2B8404 40.0 4 223 288404 40.0 8 | 2B8404 40.0 4 223 2B8404 40.0 8 2B8404 40.0 26 | 288404 40.0 4 223 288404 40.0 8 288404 40.0 26 4884010 21.0 3 | 2B8404 40.0 4 223 2B8404 40.0 8 2B8404 40.0 26 4884010 21.0 3 2B8404 40.0 6 | 2B8404 40.0 4 2B8404 40.0 8 2B8404 40.0 8 2B8404 40.0 26 2B8404 40.0 6 2B8402- 33.0 3 8B8402- 33.0 3 MM |
| kWh Proposed 8,515 DAYBRITE 2,584 DAYBRITE 2,584 DCOZFPZ4288404 1,253 CREATIVE 1,253 GRNLEDPL1840K5 5WBP | 8,515 DAYBRITE 2,584 DCO2FP242B8404 DCO2FP242B8404 1L GREEN 1,253 GRNLEDPL1840K5 5WBP | 2.584 DC02FP242B8404 DSUNVDIM 1L GREEN 1,253 GRNLEDPL1840K5 5WBP | 1L GREEN CREATIVE GRNLEDPL1840K5 5WBP | | 1L GREEN CREATIVE GRNLEDPL 1840K5 5WBP | 2L GREEN CREATIVE CREATIVE GRNLEDPL12440K | 17WBP | 170000 DAYBRITE DAYBRITE 1,629 DCO2FPZ42B8404 DSUNVDIM | 17WBP 17WBP DAYBRITE DAYBRITE DSUNVDIM 80,242 | 17WBP DAYBRITE DAYBRITE DAYBRITE DSUNVDIM 80,242 DAYBRITE 2.067 DC02FPZ42B8404 DAYBRITE 2.067 DC02FPZ42B8404 | 1,629 DAYBRITE DAYBRITE DAYBRITE DCO2FP242B8404 BUNVDIM 80,242 DAYBRITE 2,067 DAYBRITE 2,067 DCO2FP242B8404 DAYBRITE 6,719 DCO2FP242B8404 DAYBRITE 6,719 DCO2FP242B8404 DAYBRITE 0.2007 DSUNVDIM | 17WBP 1,629 DAYBRITE DAYBRITE DSUNVDIM 80,242 DSUNVDIM 2,067 DAYBRITE 2,067 DC02FPZ42B8404 DSUNVDIM 6,719 DAYBRITE 6,719 DC02FPZ42B8404 DSUNVDIM 775 PHILIPT8488401C 775 WBB | 1,629 DAYBRITE 1,629 DAYBRITE DAYBRITE DAYBRITE 80,242 DSUNVDIM 80,242 DAYBRITE 2,067 DCOZFPZ42B8404 2,067 DCOZFPZ42B8404 DAYBRITE DAYBRITE 2,067 DCOZFPZ42B8404 DAYBRITE DAYBRITE 6,719 DCOZFPZ42B8404 DAYBRITE DAYBRITE 775 PHILIPS 775 PHILEDT34884010 MBB DAYBRITE 1,551 DCOZFP242B8404 1,551 DCOZFP242B8404 DAYBRITE DAYBRITE | 1,629 DAYBRITE 1,629 DCO2FP242B8404 80,242 DSUNVDIM 80,242 DAYBRITE 2,067 DSUNVDIM 2,067 DSUNVDIM 6,719 DAYBRITE 0,719 DAYBRITE 1,551 DAYBRITE 0,051 DAYBRITE 1,551 DAYBRITE 0AYBRITE DAYBRITE 1,551 DAYBRITE 0AYBRITE DAYBRITE 1,051 DCO2FF7238B8402: 1,051 DCO2FF7238B8402: 0AYBRITE DAYBRITE |
| Qty Burn k 43 8,3 8, 10 4,380 2 11 4,380 1 | 43 8, 43 8, 10 4,380 2. 11 4,380 1 | 10 4,380 2, 11 4,380 1 | 11 4,380 1. | | 12 4,380 { | 6 4,380 2, | | 4 4,380 1 | 4 4,380 1. 223 8(| 4 4,380 1, 223 86 8 4,380 2 | 4 4,380 1, 223 81 8 4,380 2 26 4,380 6 | 4 4,380 1, 223 80 8 4,380 2 26 4,380 6 3 4,380 6 | 4 4,380 1, 223 80 8 4,380 2 26 4,380 6 3 4,380 6 6 4,380 1 | 4 4,380 1, 223 80 8 4,380 2, 26 4,380 6 3 4,380 6 6 4,380 1 3 4,380 1 |
| Existing Watts ay -F32T8-2 59.0 :FL-CFQ18W- 26.0 | ay -F32T8-2 59.0 :FL-CFQ18W- 26.0 | -F32T8-2 59.0 FL-CFQ18W- 26.0 | FL-CFQ18W- 26.0 | | FL-CF18W-1 18.0 | FL-CF40W-2 80.0 | | -F32T8-3 93.0 | -F32T8-3 93.0 V | -F32T8-3 93.0 y -F32T8-2 59.0 | -F32T8-3 93.0 y -F32T8-2 59.0 -F32T8-2 59.0 | F32T8-3 93.0 y -F32T8-2 59.0 -F32T8-2 59.0 -F32T8-2 59.0 | F32T8-3 93.0 y F32T8-2 59.0 F32T8-2 59.0 F32T8-2 59.0 F32T8-2 59.0 | F32T8-3 93.0 Y 532T8-2 59.0 F32T8-2 59.0 F32T8-2 59.0 F32T8-2 59.0 F12-FU31T8/6- 80.0 |
| Room School / Entrywa | School / Entrywa | | Lobby F-F | Common CFI | Common Perimeter CFI | Common Fixtures | | Common F-F Kitchen | Common F-F Kitchen School / Hallway | Common F-F Kitchen F-F School / Hallway Hallway by F-F Gym | Common F-F Kitchen F-F School / Hallway Hallway by F-F Gym F-F Hallway by F-F Library F-F | Common F-F Kitchen F-F School / Hallway Hallway by F-F Gym F-F Library F-F Library F-F | Common F-F Kitchen F-F School / Hallway Hallway by F-F Gym F-F Library Py F-F Boiler Room F-F Small Hallway F-F | Common F-F Kitchen F-F School / Hallway Hallway by F-F Gym F-F Library F-F Boiler Room F-F Small Hallway F-F Bathrooms 2 |

| urdock School | ED Upgrade |
|---------------|------------|
| ۸ur | Щ |
| Murc | Ē |



| | | | | | | | | | | | | 10.4 | | | 4.8 | | |
|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|--------------|----------------------------------------|----------------------------------------|---------------|---------------------------------|--------------------------------------|
| \$42 | \$133 | \$48 | \$18 | \$112 | \$84 | \$266 | \$84 | \$126 | \$63 | \$161 | \$63 | \$461 | \$233 | \$227 | \$420 | \$280 | \$80 |
| \$18 | \$57 | 0\$ | \$3 | \$48 | \$15 5 | \$114 | \$30 | \$54 | \$27 | \$00 \$ | \$27 | \$82 | \$42 | \$41 | \$226 | \$171 | \$3 0 |
| \$131 | \$415 | \$63 | \$23 | \$349 | \$110 | \$829 | \$262 | \$393 | \$196 | \$502 | \$196 | \$602 | \$305 | \$297 | \$1,649 | \$1,252 | \$288 |
| 0\$ | \$0 | \$0 | \$0 | \$0 | 0\$ | 0\$ | 0 | 0\$ | 0\$ | 0\$ | \$0 | \$0 | \$0 | 0\$ | \$0 | \$0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | 0 |
| 1,051 | 3,329 | 1,402 | 526 | 2,803 | 2,453 | 6,658 | 2,102 | 3,154 | 1,577 | 4,030 | 1,577 | 13,490 | 6,833 | 6,658 | 21,480 | 18,221 | 1,840 |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | | 4,380 | 4,380 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | 0 |
| 9 | 19 | 00 | ŝ | 16 | 14 | 30 | 12 | 18 | Ø | 23 | 0 | 77 | 39 | 38 | 40 | 20 | 10 |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | | 40.0 | 40.0 | | 208.0 | 42.0 |
| DAYBRITE DCO2FPZ42B8404 DSUNVDIM | | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | | DAYBRITE DCOFBY30L840UN V | 4L PHILIPS PHLLEDT84884010 WBB |
| 2,444 | 7,739 | 2,067 | 775 | 6,517 | 3,618 | 15,479 | 4,888 | 7,332 | 3,666 | 9,369 | 3,666 | 19,898 | 10,078 | 9,820 | 39,026 | 31,536 | 4,906 |
| 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | | 4,380 | 4,380 |
| 9 | 19 | 00 | с | 16 | 14 | 38 | 12 | 18 | Ø | 23 | Ø | 77 | 39 | 38 | 40 | 20 | 10 |
| 93.0 | 93.0 | 59.0 | 59.0 | 93.0 | 59.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | | 59.0 | 59.0 | | 360.0 | 112.0 |
| F-F32T8-3 | F-F32T8-3 | F-F32T8-2 | F-F32T8-2 | F-F32T8-3 | F-F32T8-2 | F-F32T8-3 | F-F32T8-3 | F-F32T8-3 | F-F32T8-3 | F-F32T8-3 | F-F32T8-3 | d | F-F32T8-2 | F-F32T8-2 | n Gym | F-F54T5HO-6 | F-F32T8-4 |
| IT Room | Library | Library Offices | Library Back Hallway | Library Classrooms (2) | Library Side Hallway (2) | Library Classrooms (3) | 201 | 202+203 | 204 | 302 | 301 | School / Sho | Classroom | Shop | School / Mair | Gym | Stage |

| ED Upgrade |
|------------|
| Щ |
| |



| | | | 25.2 | | | | | | 3.0 | | | | | | | | |
|--------------------------------------|----------------------------------------|--------------------------------------|-------------|---------------------------------|--------------------------------------|----------------------------------------|--------------------------------------|--------------------------------------|-------------|----------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|
| \$12 | \$36 | \$12 | \$319 | \$161 | \$56 | \$72 | \$18 | \$12 | \$1,914 | \$1,170 | \$335 | \$48 | \$60 | \$209 | \$32 | \$ | \$47 |
| \$4 | \$ | \$4 | \$66 | ୦ ୫ | \$28 | \$37 | \$Q | \$4 | \$729 | \$499 | \$60 | \$24 | \$21 | \$103 | \$16 | 0\$ | QJ QJ |
| \$31 | \$47 | \$31 | \$481 | -\$66 | \$202 | \$267 | \$47 | \$31 | \$5,325 | \$3,644 | \$438 | \$178 | \$156 | \$749 | \$115 | \$ | \$37 |
| 0\$ | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | 0\$ | \$0 | \$0 | 0\$ | \$0 | 0\$ | 0\$ |
| 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 184 | 1,051 | 184 | 21,545 | 18,221 | 1,288 | 1,577 | 276 | 184 | 47,479 | 29,258 | 9,811 | 1,051 | 920 | 4,783 | 736 | 37 | 745 |
| 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 |
| 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Q | 2 | 41 | 20 | 7 | J | с | 0 | 293 | 167 | 56 | 9 | 10 | 26 | 4 | ~ | 20 |
| 21.0 | 40.0 | 21.0 | | 208.0 | 42.0 | 40.0 | 21.0 | 21.0 | | 40.0 | 40.0 | 40.0 | 21.0 | 42.0 | 42.0 | 8.5 | 8.5 |
| 2L PHILIPS PHLLEDT84884010 WBB | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 2L PHILIPS PHLLEDT84884010 WBB | | DAYBRITE DCOFBY30L840UN V | 4L PHILIPS PHLLEDT84884010 WBB | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 2L PHILIPS PHLLEDT84884010 WBB | 2L PHILIPS PHLLEDT84884010 WBB | | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | DAYBRITE DCO2FPZ42B8404 DSUNVDIM | 2L PHILIPS PHLLEDT84884010 WBB | 4L PHILIPS PHLLEDT84884010 WBB | 4L PHILIPS PHLLEDT84884010 WBB | PHILIPS PHLLEDA19827K85 WND | PHILIPS PHLLEDA19827K85 WND |
| 517 | 1,551 | 517 | 26,661 | 17,520 | 3,434 | 4,415 | 775 | 517 | 104,130 | 68,026 | 14,472 | 2,943 | 2,584 | 12,755 | 1,962 | 57 | 1,139 |
| 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 | 4,380 |
| 2 | 0 | 0 | 41 | 20 | 7 | 0 | n | 0 | 293 | 167 | 56 | 9 | 10 | 26 | 4 | ~ | 20 |
| 59.0 | 59.0 | 59.0 | | 200.0 | 112.0 | 112.0 | 59.0 | 59.0 | | 93.0 | 59.0 | 112.0 | 59.0 | 112.0 | 112.0 | 13.0 | 13.0 |
| F-F32T8-2 | F-F32T8-2 | F-F32T8-2 | nd Gym | F-F54T5HO-4 | F-F32T8-4 | F-F32T8-4 | F-F32T8-2 | F-F32T8-2 | andy Count | F-F32T8-3 | F-F32T8-2 | F-F32T8-4 | F-F32T8-2 | F-F32T8-4 | F-F32T8-4 | nd CFL-CF13W-1 | CFL-CF13W-1 |
| Stage | Gym Exit Hallways | Gym | School / 2n | Gym | Storage | Kitchen | Office | Office | School / Ra | One | Two | Three | Four | Five | Six | Shower Rou Fixture | Shower Square Fixtures |

| ED Upgrade |
|------------|
| Ш |
| |



| | | | 6.0 |
|---------|------------------------|-----------------------------------|----------|
| | \$ 21 | \$ | \$4,809 |
| | \$ | 0\$ | \$1,697 |
| | \$4 | \$1 | \$12,394 |
| | \$0 | 0\$ | \$0 |
| | 0 | 0 | |
| | 74 | 64 | 146,623 |
| | 4,380 | 4,380 | |
| | 0 | 0 | |
| | 7 | ~ | 717 |
| | 8.5 | 14.5 | |
| PHILIPS | PHLLEDA19827K85 WND | PHILIPS PHLLEDA19827K14 WND | |
| | 114 | 79 | 278,472 |
| | 4,380 | 4,380 | |
| | 2 | ~ | 717 |
| | 13.0 | 18.0 | |
| | CFL-CF13W-1 | CFL-CF18W-1 | |
| | Seven | Eight | Totals |



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 9/6/2023

| | MAT | TEP | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------|--------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|------------------|----------|--|
| CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. | | | | | | | | | | |
| IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on | | | | | | | | | | |
| this certificate does not conter rights to the certificate holder in lieu of such endorsement(s). | | | | | | | | | | |
| PRODUCER | NAME: | NAME: Sara Foster, CISR | | | | | | | | |
| License #0B01094 | | | | | PHONE (A/C, No, Ext): 916-797-4425 (A/C, No): 916-797-4425 | | | | | |
| 222 Court Street | | | | | E-MAIL ADDRESS: sfoster@iwins.com | | | | | |
| Woodland CA 95695 | | | | | INSURER(S) AFFORDING COVERAGE | | | | | |
| License#: 0B01094 | | | | | INSURER A : Natl Union Fire Ins Co of Pitt | | | | | |
| INSURED VOSSE-1 | | | | | INSURER B : Federal Insurance Company | | | | | |
| ∣ voss Electric Company dba Voss Lighting | | | | | INSURER C : | | | | | |
| 1601 Cushman Drive. | | | | | INSURER D : | | | | | |
| Lincoln NE 68512 | | | | | INSURER E : | | | | | |
| | | | | | INSURER F : | | | | | |
| COVERAGES CERTIFICATE NUMBER: 875598480 | | | | | REVISION NUMBER: | | | | | |
| THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. | | | | | | | | | | |
| | ADDL | SUBR | | | POLICY EFF POLICY EXP | | LIMITS | | | |
| A X COMMERCIAL GENERAL LIABILITY | Y | Y | GL5180260 | 3 | 3/1/2023 | 3/1/2024 | | - \$1000 | .000 | |
| | | | | | | | DAMAGE TO RENTED | \$ 300.0 | 00 | |
| | | | | | | | MED EXP (Any one person) | \$ 25 00 | 0 | |
| | | | | | | | | ¢ 1 000 | 000 | |
| | | | | | | | | \$ 2,000,000 | | |
| BOUDY X PRO- | | | | | | | | \$2,000,000 | | |
| | | | | | | | PRODUCTS - COMP/OP AGG \$2,0 | | ,000 | |
| | Y | Y | CA2961690 | | 3/1/2023 | 3/1/2024 | COMBINED SINGLE LIMIT | ♥ ¢ 1 000 000 | | |
| | | CA2901090 | | 3/1/2023 | 3/1/2024 | (La accident) \$1,000,000 BODILY INJURY (Per person) \$ | | ,000 | | |
| | | | | | | | BODILY IN ILIRY (Per accident) ¢ | | | |
| AUTOS ONLY AUTOS | | | | | | | PROPERTY DAMAGE | ф Ф | | |
| | | | | | | | (Per accident) | ф Ф | | |
| | V | V | 70400750 | | 0/4/0000 | 0/4/0004 | | \$ | | |
| | ľ | T | 00700700 | | 3/1/2023 | 3/1/2024 | EACH OCCURRENCE | \$ 10,00 | 0,000 | |
| EXCESS LIAB CLAIMS-MADE | | | | | | | AGGREGATE | \$10,00 | 0,000 | |
| DED RETENTION \$ | | | | | | 0////000/ | V PER OTH- | \$ | | |
| A WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY Y/N | | Y | WC012016025 | 3 | 3/1/2023 | 3/1/2024 | X STATUTE ER | | | |
| ANYPROPRIETOR/PARTNER/EXECUTIVE N OFFICER/MEMBER EXCLUDED? | N/A | | | | | | E.L. EACH ACCIDENT | \$1,000 | ,000 | |
| (Mandatory in NH) | | | | | | | E.L. DISEASE - EA EMPLOYEE | \$ 1,000 | ,000 | |
| DESCRIPTION OF OPERATIONS below | | | | | | | E.L. DISEASE - POLICY LIMIT | \$1,000 | ,000 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| DESCRIPTION OF OPERATIONS / LOCATIONS / VEHIC Additional Insured status applies to reques | LES (/ | ACORD atities | 101, Additional Remarks Schedu | ile, may be atta tract per th | ached if mor | e space is required policy forms | ed) s/endorsements Waiver o | of subro | nation | |
| applies to requested entities, if required by | writte | en cor | ntract, per the attached pol | licy forms/e | endorseme | ents. 30 day r | notice of cancellation appli | es to re | equested | |
| entities, if required by written contract, per the attached policy forms/endorsements. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| CERTIFICATE HOLDER | | | | | CANCELLATION | | | | | |
| | | | | | | | | | | |
| | | | | | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF NOTICE WILL BE DELIVERED IN | | | | | |
| Cooperative Purchasing Connection | | | | | ACCORDANCE WITH THE POLICY PROVISIONS. | | | | | |
| ***** | | | | | | | | | | |
| 1001 E Mount Faith Fergus | | | | | AUTHORIZED REPRESENTATIVE | | | | | |
| Fergus Falls MN 56537 | | | | | Minholle, Jordwin | | | | | |
| 1 Manual Destruction | | | | | | | | | | |
| © 1988-2015 ACORD CORPORATION. All rights reserved. | | | | | | | | | | |

The ACORD name and logo are registered marks of ACORD

ENDORSEMENT

This endorsement, effective 12:01 A.M. 03/01/2023 forms a part of

296-16-90 Policy No.CA issued to VOSS ELECTRIC COMPANY

by NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - WHERE REQUIRED UNDER CONTRACT OR AGREEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

SCHEDULE

ADDITIONAL INSURED:

Any person or organization for whom you are contractually bound to provide Additional Insured status but only to the extent of such person's or organization's liability arising out of the use of a . covered "auto".

- I. SECTION II COVERED AUTOS LIABILITY COVERAGE, A. Coverage, 1. Who Is Insured, is amended to add:
 - d. Any person or organization, shown in the schedule above, to whom you become obligated to include as an additional insured under this policy, as a result of any contract or agreement you enter into which requires you to furnish insurance to that person or organization of the type provided by this policy, but only with respect to liability arising out of use of a covered "auto". However, the insurance provided will not exceed the lesser of:
 - (1) The coverage and/or limits of this policy, or
 - (2) The coverage and/or limits required by said contract or agreement.

ORIZED REPRESENTATIVE

ENDORSEMENT

This endorsement, effective 12:01 A.M. 03/01/2023 forms a part of

Policy No.GL 518-02-60 issued to VOSS ELECTRIC COMPANY

By NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

LIMITED ADVICE OF CANCELLATION PROVIDED VIA E-MAIL TO ENTITIES OTHER THAN THE FIRST NAMED INSURED

This policy is amended as follows:

In the event that the **Insurer** cancels this policy for any reason other than non-payment of premium, and

- 1.t he cancellation effective date is prior to this policy's expiration date;
- 2.t he **First Named Insured** is under an existing contractual obligation to notify a certificate holder when this policy is canceled (hereinafter, the "Certificate Holder(s)") and has provided to the **Insurer**, either directly or through its broker of record, the email address of a contact at each such entity; and
- 3.t he **Insurer** received this information after the **First Named Insured** receives notice of cancellation of this policy and prior to this policy's cancellation effective date, via an electronic spreadsheet that is acceptable to the **Insurer**,

the **Insurer** will provide advice of cancellation (the "Advice") via e-mail to each such Certificate Holders within <u>30</u> days after the **First Named Insured** provides such information to the **Insurer**; provided, however, that if a specific number of days is not stated above, then the Advice will be provided to such Certificate Holder(s) as soon as reasonably practicable after the **First Named Insured** provides such information to the **Insurer**.

Proof of the **Insurer** emailing the Advice, using the information provided by the **First Named Insured**, will serve as proof that the **Insurer** has fully satisfied its obligations under this endorsement.

This endorsement does not affect, in any way, coverage provided under this policy or the cancellation of this policy or the effective date thereof, nor shall this endorsement invest any rights in any entity not insured under this policy.

The following Definitions apply to this endorsement:

- 1.F irst Named Insured means the Named Insured shown on the Declarations Page of this policy.
- 2.1 **nsurer** means the insurance company shown in the header on the Declarations page of this policy.

All other terms, conditions and exclusions shall remain the same.

Authorized Representative

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement changes the policy to which it is attached effective on the inception date of the policy unless a different date is indicated below.

(The following "attaching clause" need be completed only when this endorsement is issued subsequent to preparation of the policy).

This endorsement, effective 12:01 AM 03/01/2023 forms a part of Policy No. WC 012-01-6025

Issued to VOSS ELECTRIC COMPANY

By NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA.

LIMITED ADVICE OF CANCELLATION PROVIDED VIA E-MAIL TO ENTITIES OTHER THAN THE NAMED INSURED (WORKERS' COMPENSATION ONLY)

This policy is amended as follows:

In the event that the Insurer cancels this policy for any reason other than non-payment of premium, and

- 1. the cancellation effective date is prior to this policy's expiration date;
- 2. the Named Insured or, if applicable, any other employers named in Item 1 of the Information Page is under an existing contractual obligation to notify a certificate holder when this policy is canceled (hereinafter, the "Certificate Holder(s)") and the Named Insured has provided to the Insurer, either directly or through its broker of record, the email address of a contact at each such entity; and
- 3. the **Insurer** received this information after the **Named Insured** receives notice of cancellation of this policy and prior to this policy's cancellation effective date, via an electronic spreadsheet that is acceptable to the **Insurer**,

the **Insurer** will provide advice of cancellation (the "Advice") via e-mail to each such Certificate Holders within <u>30</u> days after the **Named Insured** provides such information to the **Insurer**; provided, however, that if a specific number of days is not stated above, then the Advice will be provided to such Certificate Holder(s) as soon as reasonably practicable after the **Named Insured** provides such information to the **Insurer**.

Proof of the **Insurer** emailing the Advice, using the information provided by the **First Named Insured**, will serve as proof that the **Insurer** has fully satisfied its obligations under this endorsement.

This endorsement does not affect, in any way, coverage provided under this policy or the cancellation of this policy or the effective date thereof, nor shall this endorsement invest any rights in any entity not insured under this policy.

The following definitions apply to this endorsement:

- 1. **Named Insured** means the insured first named employer in Item 1 of the Information Page of this policy.
- 2. **Insurer** means the insurance company shown in the header on the Information Page of this policy.

All other terms, conditions and exclusions shall remain the same.

S.W. H.Z.

AUTHORIZED REPRESENTATIVE
ENDORSEMENT

This endorsement, effective 12:01 A.M. 03/01/2023 forms a part of

Policy No. CA 296-16-90 issued to VOSS ELECTRIC COMPANY

By NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

LIMITED ADVICE OF CANCELLATION PROVIDED VIA E-MAIL TO ENTITIES OTHER THAN THE FIRST NAMED INSURED

This policy is amended as follows:

In the event that the **Insurer** cancels this policy for any reason other than non-payment of premium, and

- 1.t he cancellation effective date is prior to this policy's expiration date;
- 2.t he **First Named Insured** is under an existing contractual obligation to notify a certificate holder when this policy is canceled (hereinafter, the "Certificate Holder(s)") and has provided to the **Insurer**, either directly or through its broker of record, the email address of a contact at each such entity; and
- 3.t he **Insurer** received this information after the **First Named Insured** receives notice of cancellation of this policy and prior to this policy's cancellation effective date, via an electronic spreadsheet that is acceptable to the **Insurer**,

the **Insurer** will provide advice of cancellation (the "Advice") via e-mail to each such Certificate Holders within <u>30</u> days after the **First Named Insured** provides such information to the **Insurer**; provided, however, that if a specific number of days is not stated above, then the Advice will be provided to such Certificate Holder(s) as soon as reasonably practicable after the **First Named Insured Insured** provides such information to the **Insurer**.

Proof of the **Insurer** emailing the Advice, using the information provided by the **First Named Insured**, will serve as proof that the **Insurer** has fully satisfied its obligations under this endorsement.

This endorsement does not affect, in any way, coverage provided under this policy or the cancellation of this policy or the effective date thereof, nor shall this endorsement invest any rights in any entity not insured under this policy.

The following Definitions apply to this endorsement:

- 1.F irst Named Insured means the Named Insured shown on the Declarations Page of this policy.
- 2.1 **nsurer** means the insurance company shown in the header on the Declarations page of this policy.

All other terms, conditions and exclusions shall remain the same.

[/] Authorized Representative

ENDORSEMENT

This endorsement, effective 12:01 A.M. 3/1/2023 forms a part of

296-16-90 issued to VOSS ELECTRIC COMPANY policy No. CA

by NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

Section IV - Business Auto Conditions, A. - Loss Conditions, 5. - Transfer of Rights of Recovery Against Others to Us, is amended to add:

However, we will waive any right of recover we have against any person or organization with whom you have entered into a contract or agreement because of payments we make under this Coverage Form arising out of an "accident" or "loss" if:

- The "accident" or "loss" is due to operations undertaken in accordance with the contract existing (1) between you and such person or organization; and
- The contract or agreement was entered into prior to any "accident" or "loss". (2)

No waiver of the right of recovery will directly or indirectly apply to your employees or employees of the person or organization, and we reserve our rights or lien to be reimbursed from any recovery funds obtained by any injured employee.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS - SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

| Name Of Additional Insured Person(s) Or Organization(s) | Location(s) Of Covered Operations |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| ANY PERSON OR ORGANIZATION WHOM YOU BECOME OBLIGATED TO INCLUDE AS AN ADDITIONAL INSURED AS A RESULT OF ANY CONTRACT OR AGREEMENT YOU HAVE ENTERED INTO. | PER THE CONTRACT OR AGREEMENT. |
| Information required to complete this Schedule, if n | ot shown above, will be shown in the Declarations. |

- A. Section II 6 Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:
 - 1. Your acts or omissions; or
 - 2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

- The insurance afforded to such additional insured only applies to the extent permitted by law; and
- 2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

- All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
- 2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

- 1. Required by the contract or agreement; or
- **2.** Available under the applicable limits of insurance;

whichever is less.

This endorsement shall not increase the applicable limits of insurance.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US (WAIVER OF SUBROGATION)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART ELECTRONIC DATA LIABILITY COVERAGE PART LIQUOR LIABILITY COVERAGE PART POLLUTION LIABILITY COVERAGE PART DESIGNATED SITES POLLUTION LIABILITY LIMITED COVERAGE PART DESIGNATED SITES PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART RAILROAD PROTECTIVE LIABILITY COVERAGE PART UNDERGROUND STORAGE TANK POLICY DESIGNATED TANKS

SCHEDULE

Name Of Person(s) Or Organization(s): PURSUANT TO APPLICABLE WRITTEN CONTRACT OR AGREEMENT YOU ENTER INTO.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph 8. Transfer Of Rights Of Recovery Against Others To Us of Section IV – Conditions:

We waive any right of recovery against the person(s) or organization(s) shown in the Schedule above because of payments we make under this Coverage Part. Such waiver by us applies only to the extent that the insured has waived its right of recovery against such person(s) or organization(s) prior to loss. This endorsement applies only to the person(s) or organization(s) shown in the Schedule above.

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

This endorsement changes the policy to which it is attached effective on inception date of the policy unless a different date is indicated below.

This endorsement, effective 12:01 AM 03/01/2023

forms a part of Policy No. WC 012-01-6025

Issued to VOSS ELECTRIC COMPANY

By NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA.

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.

This agreement shall not operate directly or indirectly to benefit any one not named in the Schedule.

Schedule

ANY PERSON OR ORGANIZATION TO WHOM YOU BECOME OBLIGATED TO WAIVE YOUR RIGHTS OF RECOVERY AGAINST, UNDER ANY WRITTEN CONTRACT OR AGREEMENT YOU ENTER INTO PRIOR TO THE OCCURRENCE OF LOSS.

Any person or organization for which the employer has agreed by written contract, executed prior to loss, may execute a waiver of subrogation. However, for purposes of work performed by the employer in Missouri, this waiver of subrogation does not apply to any construction group of classifications as designated by the waiver of right to recover from others (subrogation) rule in our manual.

This form is not applicable in California, Kentucky, New Hampshire, New Jersey, Texas, or Utah.

Mit Solur

WC 00 03 13 (Ed. 04/84) Countersigned by _____

Authorized Representative

| | Mat 6 h | T. 1. D | |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Person Completing This Survey, include: | Mark Guin | Taylor Dumas | Taylor Dumas, CEM, PEP - CleaResult, |
| Name | Director, Prepress and Color Reproduction | Senior Account Manager | taylor.dumas@clearesult.com, 501-265-0249 |
| Title | RR Donnelly Inc. | CLEAResult | |
| Agency/Company | mark.guin@rrd.com | taylor.dumas@clearesult.com | |
| Email Address | 630-329-3553 | 870-814-2411 | |
| Phone Number | | | |
| Has your agency received or purchased lighting audit services and/or LED solutions from the Supplier? | Yes | Yes | No |
| Briefly describe your service/project recieved from the | Has completed four projects through out different states. | We are the implementer of Entergy Arkansas Energy Solutions Program which | |
| Supplier. | Three more projects to go. Very flexible. Great to work with. Clean up was great. | is the incentive program for the electric utility Entergy Arkansas. Every energy efficiency project that Efficiency Integrated Solutions has completed for incentives in Arkansas our company has been heavily involved in and 1 personally have handled I would guess the majority of the lighting new construction and retrofit, compressed air, pumps and controls energy efficiency projects. I believe I have done around 20 projects throughout the years with the EIS group. | |
| Did the Supplier and their staff meet your agency/company's requested needs? | Yes | Yes | Yes |
| Describe how the Supplier did not meet your agency's needs. | | | |
| Has the Supplier's performance been consistently thorough, acceptable, and professional? | Yes | Yes | Yes |
| Describe how the Supplier's performance was not consistent, acceptable, or professional. | | | |
| Did the Supplier respond to your agency/company's needs in a timely manner? | Yes | Yes | Yes |
| Describe how the Supplier did not address your agency's needs in a timely manner. | | | |
| Have or were there any problems with this Supplier's work or conduct? | No | Yes | No |
| work or conduct. | | completed have vastly ranged in complexity with lighting projects tending to be the least complex in comparison to other ones. Our company requires a very thorough list of items for all projects and Els has always provided those in a timely and professional manor. There were projects that had hiccups per say, but they were never anything was addressed and corrected with the customer and LCRAResult. Example a lighting project was completed and the customer and LCRAResult. Example a lighting project was completed and the customer and LCRAResult. Example a lighting project was completed and the customer and LCRAResult. Example a lighting project was completed and the customer and LCRAResult. Example a lighting project was completed and the customer and LCRAResult. Example a lighting project was completed and the customer and LCRAResult. Example a lighting project was completed and the customer and the side on kWh reduction so this type of example changes our calculations as we just communicate what we need for the said change to properly calculate the addition/subtraction of light. I have never had one problem that with Els that wasn't considered small in my opinion and each one was resolved properly. | |
| Was the attitude of the Supplier and their staff friendly and helpful? | Yes | Yes | Yes |
| Please describe the attitude of the Supplier and their staff. | | | |
| Were there any disputes regarding their work? | No | No | No |
| Please describe the(se) disputes with the Supplier and their work. | | | |
| Would you have for any reason to not contract with this Supplier in the future should you have the opportunity? | No | No | No |
| Please rate the Vendor's overall job performance. | 5 | 5 | 5 |
| Other Comments (Supplier or Project/Service) | Great work. Great agency. | LLEAKesuit handles about a few hundred million kWh reduction through several energy efficiency orpicets annually, and I directly oversee approximately 60% each year. With that said I work on thousands projects and I get to really see how projects start and finish from countless contractors. EK has always provided a quality project above requirements we set forth to gain incentives through the Entergy Arkansas Energy Solutions Program, but the other side to this is they provide a personal level of customer service that I appreciate. I don't prefer when contractors take a transactional approach to the work and EIS provides a quality product with a wonderful customer service aspect during and long after the projects completion. As an employee of CLEAResult I must operate without any preference to one contractor over the other, but I can say EIS provides a level of service that separates themselves from contractors I typically see. EIs is always a group I know will provide an exceptional level of service on their energy efficiency projects. | Liceakesult is a third party energy consultant for EIS. Every project through Arkansas has to go through them. They have done at least 15 - 20 projects with EIS. Have worked with them for several years. |

| Person Completing This Survey, include: | Troy Marshall, Director of Buildings and Grounds | Glen Napier Building and grounds supervisor | Mike Bouche, Oconto Falls Public School, |
|-----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------|
| Name | Columbus School District, | Suring School District | Building/Grounds & Maintenance Supervisor, |
| Title | tmarshall@columbus.k12.wi.us | napigl@suringk12.org | 920-848-4475. |
| Agency/Company | 920-623-5950 ext.3158 | | |
| Email Address | | | |
| Phone Number | | | |
| Has your agency received or purchased lighting audit | Yes | Yes | Yes |
| services and/or LED solutions from the Supplier? | | | |
| Briefly describe your service/project recieved from the | We did an LED lighting project in 3 gyms, HS corridors, | Led lights installed throughout the building | Exterior & Interior Lighting projects. |
| Supplier. | and HS/ES classrooms | | |
| Did the Supplier and their staff meet your | Yes | Yes | Yes |
| agency/company's requested needs? | | | |
| Has the Supplier's performance been consistently | Yes | Yes | Yes |
| thorough, acceptable, and professional? | | | |
| Did the Supplier respond to your agency/company's | Yes | Yes | Yes |
| needs in a timely manner? | | | |
| Have or were there any problems with this Supplier's | No | No | No |
| work or conduct? | | | |
| Was the attitude of the Supplier and their staff friendly | Yes | Yes | Yes |
| and helpful? | | | |
| Were there any disputes regarding their work? | No | No | No |
| Would you have for any reason to not contract with this | No | No | No |
| Supplier in the future should you have the opportunity? | | | |
| | | | |
| Please rate the Vendor's overall job performance. | 5 | 5 | 5 |
| Other Comments (Supplier or Project/Service) | NCLED really came through in a short amount of time | | Good job with billing process. Good to work |
| | for us. They did roughly \$85k worth of work in about 5 | | with. |
| | days. From the time I contacted them to the time they | | |
| | were finished, it only took 2 weeks to be finished. I | | |
| | have recommended them to 3 other schools already. | | |
| | | | |

| Person Completing This Survey, include: Name Title Agency/Company Email Address Phone Number | Leah Hiniker Sustainability Manager Hennepin County leah.hiniker@henepin.us 612.543.1219 | Tim Burton Director of Buildings & Grounds Operations Centennial School District 12 tburton@isd12.org 763-792-6016 | Dan Kretsinger Director of Facilities & Transportation Richfield Public Schools ISD280 dan kretsinger@rpsmn.org 612-798-6081 |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Has your agency received or purchased lighting audit services and/or LED solutions from the Supplier? | Yes | Yes | Yes |
| Briefly describe your service/project recieved from the Supplier. | Mostly LED lamps | Full district audit. We used the report to plan a large LED conversion. They have also completed a new parking lot lighting, auditorium lighting conversion, and several miscellaneous projects. They are my first call for all lighting needs. | We purchase all of our light bulbs from Premier Lighting. They also provide all of our large project lighting. I really appreciate their detail by providing us with rebate information and energy savings information for all projects. |
| Did the Supplier and their staff meet your agency/company's requested needs? | Yes | Yes | Yes |
| Has the Supplier's performance been consistently thorough, acceptable, and professional? | Yes | Yes | Yes |
| Did the Supplier respond to your agency/company's needs in a timely manner? | Yes | Yes | Yes |
| Have or were there any problems with this Supplier's work or conduct? | No | No | No |
| Was the attitude of the Supplier and their staff friendly and helpful? | Yes | Yes | Yes |
| Were there any disputes regarding their work? | No | No | No |
| Would you have for any reason to not contract with this Supplier in the future should you have the opportunity? | No | No | No |
| Please rate the Vendor's overall job performance. | 5 | 5 | 5 |
| Other Comments (Supplier or Project/Service) | | They have delivered on all projects and are a great troubleshooting resource. | The are an excellent provider for lighting. They are always responsive, have quick turn around, and they meet and exceed the needs for our school district. I would highly recommend them! |

| Person Completing This Survey, include: Name Title Agency/Company Email Address Phone Number | Kain Smith Director of Buildings & Grounds/Health & Safety Faribault Public Schools ksmith@faribault.k12.mn.us 507-333-6027 | Doug Shellum, Boys & Girls Club of the Twin Cities, dshellum@bgc-tc.org 612-282-1857, Director of Facilities | Kevin Johnson, Retired - Red Wing Public Schools |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Has your agency received or purchased lighting audit services and/or LED solutions from the Supplier? | Yes | Yes | Yes |
| Briefly describe your service/project recieved from the Supplier. | New LED retrofit lights in our Middle and High Schools along with new color tuning lights in all Special Ed classrooms at both sites. | 3 different projects. Complete gut and reinstall LED, Retrofit put LED into the existing fixtures. | Full District LED Replacement |
| Did the Supplier and their staff meet your agency/company's requested needs? | Yes | Yes | Yes |
| Has the Supplier's performance been consistently thorough, acceptable, and professional? | Yes | Yes | Yes |
| Did the Supplier respond to your agency/company's needs in a timely manner? | Yes | Yes | Yes |
| Have or were there any problems with this Supplier's work or conduct? | No | No | No |
| Was the attitude of the Supplier and their staff friendly and helpful? | Yes | Yes | Yes |
| Were there any disputes regarding their work? | No | No | No |
| Would you have for any reason to not contract with this Supplier in the future should you have the opportunity? | No | No | No |
| Please rate the Vendor's overall job performance. | 5 | 5 | 5 |
| Other Comments (Supplier or Project/Service) | Great company to work with. Truly care about the customer and their satisfaction not just sales when designing your project. | That they went above and beyond. They do awesome work. Has three projects that are waiting for approval from the board that is going to Retrofit. They helped the Boys and Girls club win an award by filling out the paperwork etc. | Nice, Honest Job. |
| Award Info | | Award Info | |

| Person Completing This Survey, include: | Ryan Knippelmeyer, Superintendent, Elmwood-Murdock | Gene Molitor, Facility Supervisor, City of Maple Grove |
|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| Name | Public Schools, rknippelmeyer@emknights.org, 402-867- | gmolitor@maplegrovemn.gov 763-494-6386 |
| Title | 2341 | |
| Agency/Company | | |
| Email Address | | |
| Phone Number | | |
| Has your agency received or purchased lighting audit | Yes | Yes |
| services and/or LED solutions from the Supplier? | | |
| Briefly describe your service/project recieved from the | We completed a district wide lighting audit - 2 buildings, | LED lighting through out the building. Electrical Upgrades |
| Supplier. | and then completed a full LED light upgrade through Voss | too. |
| | lighting in all interior spaces in both buildings in 2022. | |
| | | |
| Did the Supplier and their staff meet your | Yes | Yes |
| agency/company's requested needs? | | |
| Has the Supplier's performance been consistently | Yes | Yes |
| thorough, acceptable, and professional? | | |
| Did the Supplier respond to your agency/company's | Yes | Yes |
| needs in a timely manner? | | |
| Have or were there any problems with this Supplier's | No | No |
| work or conduct? | | |
| Was the attitude of the Supplier and their staff friendly | Yes | Yes |
| and helpful? | | |
| Were there any disputes regarding their work? | No | No |
| Would you have for any reason to not contract with this | No | No |
| Supplier in the future should you have the opportunity? | | |
| Please rate the Vendor's overall job performance. | 5 | 5 |
| Other Comments (Supplier or Project/Service) | Voss Lighting was great to work with and would | Good working relationship. |
| | recommend their consideration if you are considering a | |
| | lighting project. | |

11c Reference Check – Survey Links by Supplier

Efficiency Integrated Solutions, Inc. https://forms.office.com/r/tv1Mp142te

NCLED https://forms.office.com/r/B4gPL4kJrC

Premier Lighting, Inc. https://forms.office.com/r/QmAPpax86B

The Retrofit Companies https://forms.office.com/r/mNskTk8zP9

Voss Electric Company https://forms.office.com/r/Nt4E5UYxJ2



Evaluation Committee Report RFP #24.5 – Lighting Audit Services & LED Solutions

Description of Solicitation

The Cooperative Purchasing Connection (CPC) issued a Request for Proposal (RFP) for Lighting Audit Services & LED Solutions on August 14, 2023. The intent of the solicitation is to secure an experienced Supplier(s), equipped with the necessary resources and capabilities to develop a program for participating agencies to have the ability to acquire lighting audit services and energy efficient light emitting diodes (LED) solutions at consortium level discounted pricing. Suppliers able to provide a full turn-key solution shall only include LED lighting solutions that will provide an efficient, cost-effective way to illuminate their facilities. Lighting audit services and LED lighting solutions may include but is not limited to the following categories: 1) Lighting audit walk-though (per square foot), 2) Energy and savings reports, 3) LED solutions, 4) Installation services, 5) Energy rebate assistance, and 6) Recycling services.

COOPERATIVE

CONNECTION

The solicitation was due on September 7, 2023. Thereafter, CPC conducted and followed its opening procedures and confirmed if the responding Suppliers were deemed responsive or non-responsive.

Summary of Evaluation Committee Activity

The members of the Evaluation Committee included Melissa Mattson, Director of Administrative Services with CPC; Joni Puffett, Marketing & Vendor Relations Facilitator with AEA; and Jerome Evans, Program Representative with CPC.

Six (6) proposals were received by the submission deadline. Proposals were reviewed for compliance with the mandatory requirements set forth in the Request for Proposal (RFP). Five (5) proposals were found to be compliant and deemed responsive.

The Evaluation Committee conducted their evaluation the week of September 18, 2023. The Committee met virtually to review and discuss the responses collectively on September 26, 2023. A summation of their evaluation is included below.

Evaluation Committee Discussion & Overview

Upon review of the Supplier's responses, the evaluation committee agreed on the following:

Efficiency Integrated Solutions

- 1. The Supplier is headquartered in Atlanta, Georgia, and had no prior presence or previous stales in the fivestate territory. Significant concern about how they plan to operate in this niche and location of the market. Concern about costs associated with travel to conduct their self-performing audits.
- 2. The Supplier has conducted minimal work in the public sector. Most, if not all work has been completed in the commercial sector. Project deliverable, references, and all job descriptions were from the commercial sector.
- 3. The Supplier's response lacked clear direction on how they were going to deploy the contract to any of the participating states and avoiding answering other questions in the questionnaire.

- 4. The Supplier would manage the receipt of rebates/incentives received by filing paperwork and providing the discount to the participating agency upfront, while they wait for actual reimbursement from the utility provider.
- 5. The Supplier is requesting a minimum job requirement of \$5,000 for material only or \$40,000 minimum for a full turn-key project. Per the price schedule, 20,000 sq. feet approximately.
- 6. The Supplier offered the longest warranty for materials and workmanship (10 years). Costs for mobilization, labor, and/or shipping may outweigh warranty duration.
- 7. The Supplier's design services are itemized at the highest rate amongst respondents.
- 8. Committee expressed concern that a no-charge audit only if the project is awarded to the Supplier; this requires a mandatory commitment to a project resulting from an audit.
- 9. Additional concern from the committee due to the low discount offer (5%).
- 10. The Supplier is offering an additional 5% volume discount on design and project management services on projects valued at \$250,000 to \$1 million.

<u>NCLED</u>

- 1. The Supplier has been serving Wisconsin for most of their tenure which includes public, private, and commercial clients. The Supplier has completed a few projects in Minnesota. The retention rate is high and often receives continuous referrals from public agencies.
- 2. The Committee had some concerns about the ability to service other states as they are currently only licensed in Wisconsin. The Supplier has expressed interest in obtaining licensure for other states.
- 3. The Supplier is a recent recipient of the Trade Ally Contractor Energy Efficiency award. Before focusing on LED, the Supplier was solely an electrical contractor.
- 4. The Supplier would manage the receipt of rebates/incentives received by filing paperwork and providing the discount to the participating agency upfront, while they wait for actual reimbursement from the utility provider.
- 5. The Supplier operates its business with a smaller team, and they travel as a company. Some concerns were noted again regarding the ability to keep up with potential work when moving as a unit. Audit availability vs. project availability; team capacity may be limited.
- 6. The Supplier operates on a progress-payment basis. 50% down and balance net 30 after project completion. They also offer a lease option that can go out as far as 10 years.
- 7. The Supplier is proposing the lowest costs on auditing services as compared to other respondents. The Committee is concerned over "Free" and no per diem and mileage charges when looking at the vast mileage of the five participating states. Concerning that their intent is to stay in Wisconsin.
- 8. The Supplier is offering four (4) lines of LED manufacturers with a 10% discount off list.

Premier Lighting

- 1. The Supplier is a Small/Women-Owned Business Enterprise (SBE/WBE) lighting supplier and turn-key retrofit company since 1991 (32 years).
- 2. The Supplier operates with a small team. They conduct the audits internally and utilize a trusted installer network to complete projects.
- 3. The Supplier and its warehouse are in St. Paul, MN. They maintain local stock as well as a partnership with the manufacturer, Keystone Technologies which allows them to access various warehouses across the United States.
- 4. The Supplier conducts about 10% of their work in the public sector, approximately 50-60 public customers across the states. Currently don't take up a large market share in public work based off numbers provided.
- 5. The Supplier indicated that they only purchase product and materials from U.S. based companies.
- 6. The Supplier has exempted multiple agencies from contract pricing.
- 7. The Supplier can accept the rebate and deduct it from the end-user's bill, or they customer can pay in full and wait for the rebate directly, relying on customer preference.
- 8. The Supplier noted a potential surcharge if a shipment doesn't meet \$1,000 in freight allowances; surcharge was not defined.
- 9. The Supplier is willing to work with participating agencies to determine progress payments for large projects and allow net 30 on LED sales.

- 10. The Supplier's audit services (per square foot) are competitive and their per diem is higher priced, but lower on mileage rates. Mileage will apply to all agencies outside of a 100-mile radius of Minneapolis, MN. The audit fee, design services, and project management are waived if the project runs through the Supplier.
- 11. The Supplier's labor rates are competitive when using internal and external installer networks to complete the project. Mileage and per diem are the same for audit services, however, the mileage fee for labor is the current IRS tax rate.
- 12. The Supplier is offering four (4) lines of LED manufacturers with a 10-65% discount off list varying by manufacturer. In addition, the Supplier is offering volume discounts on:
 - a. All manufacturers 5%, \$100,000+
 - b. Satco 5%, \$10,000 \$50,000
 - c. Satco 6%, \$50,000+
 - d. Keystone 2%, \$15,000 99,999

The Retrofit Companies

- 1. The Supplier is a Small/Women-Owned Business Enterprise (SBE/WBE) company since 1992 (31 years).
- 2. The Supplier has a team of lighting auditors and project developers that work specifically with the LED solutions. The Supplier also indicated that they are manufacturer neutral and have great working relationships with the manufacturers thus allowing the Supplier the ability to design and pitch the best solutions to the client.
- 3. The Supplier does not stock a lot of products due to the continuing evolution of LED technology; this prevents needing to sell stocked product to customer that is obsolete. Flexibility and partnership allow the customer to decide what will be best for them and their needs.
- 4. In 2023, the Supplier audited and developed over 130 public agency projects in Minnesota. They have indicated limited projects in Wisconsin, but note plans for growth and sales potential in Wisconsin, Iowa, North Dakota, and South Dakota. The Supplier is continuing to grow and has invested in a partner vetting process to assist with project completion (installation) like an installer network. The Supplier has been conducting most of its installs through in-house installers and electricians.
- 5. The Supplier presents findings and lighting solutions in a "good, better, best" method explaining the cost savings, pros/cons of each solution. The Supplier quotes a Retrofit kit which allows a work-around option when operating with different age buildings and materials.
- 6. The Supplier will make attempts to take and accept the rebate initiative on behalf of the customer, this prevents the customer from allocating/paying for the entire project until the rebate finalizes. However, some utility companies do not allow this method.
- 7. The Supplier's lighting audit services are competitive along with their per diem rates and mileage rates. The audit includes design services. Project management services are also competitive. Both the audit and project management services are waived if the full project runs through the Supplier.
- 8. The Supplier is offering 16 lines of LED manufacturers all with a 15% discount off list.

Voss Electric

- 1. The Supplier has been in business since 1939 and has grown to include 13 branches nationwide. Initial work was primarily around distribution of replacement lamps and ballasts up until 10 years ago when they started offering full turn-key installations.
- 2. The Supplier has multiple contracts accessible to participating agencies, they include NCPA, OMNIA, the State of Minnesota (lamps and ballasts materials only) and a Nebraska State Contract. Agencies purchasing from the State of Minnesota contract are exempt from proposed contract pricing.
- 3. In 2022-2023, the Supplier conducted 56 institutional audits in the five (5) states.
- 4. The Supplier will deduct the projected rebate from the final cost so the client doesn't have to wait for the rebate to process. The Supplier can provide rebate pass through if required by the utility.
- 5. The Supplier requires a minimum area of 7,000 sq. feet. For projects below the minimum, all rates associated with the lighting audit will be increased by a 2x multiplier (double).
- 6. The Supplier is currently not licensed to perform electrical installation in North Dakota. The Supplier can still provide audit services, product specifications, and product supply in North Dakota.
- 7. The Supplier's audit, design, project management, per diem, and mileage are the highest of all proposers. Mileage calculations start from the bast location of the auditor that is readily available.

- 8. The Supplier's labor rates are the highest amongst proposers. The per diem rate is high, but mileage is not charged. Per diem rates increase significantly for projects in North Dakota, Minnesota, and Wisconsin if they are more than 75 miles from Duluth, Bloomington, or Rochester, Minnesota.
- 9. The Supplier is offering 10 lines of LED manufacturers all with an 87% discount off list.

Recommendation

After analysis of the Supplier/s proposals, the Evaluation Committee recommends that contracts be awarded to Premier Lighting, Inc. and The Retrofit Companies.

The recommendation and awards are subject to final review by CPC Administration and approval by the Board of Directors.

DocuSigned by: Melissa Matte 5B1ADA01B69E48F

Melissa Mattson, Director of Administrative Services Cooperative Purchasing Connection

JUNOME EVANS D78B5DE7CED34A5...

Jerome Evans, Program Representative Cooperative Purchasing Connection

DocuSigned by: Joni Put

Joni Puffett, Marketing & Vendor Relations Facilitator AEA Purchasing

DocuSigned by: isa Truazo 9AB8C86EB0B9422

Lisa Truax, Procurement Coordinator Cooperative Purchasing Connection

Attachment: Evaluation Scoring Summary

cc: Procurement File

RFP 24.5 - Lighting Audit Services & LED Solutions

Evaluation Scoring Summary

| | Efficiency Integrated Solutions, Inc. | NCLED | Premier Lighting, Inc. | The Retrofit Companies | Voss Electric |
|---------------------|------------------------------------------|-------|------------------------|------------------------|---------------|
| Evaluator #1 | 128 | 170 | 200 | 210 | 173 |
| Evaluator #2 | 113 | 169 | 218 | 222 | 199 |
| Evaluator #3 | 137 | 184 | 199 | 190 | 195 |
| | | | | | |
| Average Total Score | 126 | 174 | 206 | 207 | 189 |

| Evaluation Criteria | Points Available | Efficiency Integrated Solutions, Inc. | NCLED | Premier Lighting, Inc. | The Retrofit Companies | Voss Electric |
|----------------------------------------------------------|------------------|------------------------------------------|-------|------------------------|------------------------|---------------|
| Technical Proposal | | | | | | |
| Qualifications & Experience | 75 | 42 | 55 | 70 | 70 | 66 |
| Warranty | 10 | 6 | 9 | 6 | 8 | 6 |
| Financials & Level of Support | 10 | 6 | 7 | 5 | 7 | 5 |
| Marketing & Partnership | 16 | 8 | 8 | 13 | 14 | 11 |
| Exceptions & Deviations | 5 | 5 | 5 | 5 | 5 | 4 |
| References | 5 | 4 | 5 | 5 | 5 | 5 |
| Pricing Proposal | | | | | | |
| 1 – Lighting Audit Services *7 - Project Deliverables | 60 | 27 | 50 | 47 | 49 | 40 |
| 2.1 – LED Category Discount | 30 | 12 | 18 | 24 | 25 | 28 |
| 2.2 – LED Lighting | 30 | 13 | 18 | 24 | 24 | 24 |
| 3 – Volume Discounts | 9 | 4 | 0 | 6 | 0 | 0 |
| | | | | | | |
| Average Total Score | 250 | 126 | 174 | 206 | 207 | 189 |



Evaluation Committee Report RFP #24.5 – Lighting Audit Services & LED Solutions

Description of Solicitation

The Cooperative Purchasing Connection (CPC) issued a Request for Proposal (RFP) for Lighting Audit Services & LED Solutions on August 14, 2023. The intent of the solicitation is to secure an experienced Supplier(s), equipped with the necessary resources and capabilities to develop a program for participating agencies to have the ability to acquire lighting audit services and energy efficient light emitting diodes (LED) solutions at consortium level discounted pricing. Suppliers able to provide a full turn-key solution shall only include LED lighting solutions that will provide an efficient, cost-effective way to illuminate their facilities. Lighting audit services and LED lighting solutions may include but is not limited to the following categories: 1) Lighting audit walk-though (per square foot), 2) Energy and savings reports, 3) LED solutions, 4) Installation services, 5) Energy rebate assistance, and 6) Recycling services.

The solicitation was due on September 7, 2023. Thereafter, CPC conducted and followed its opening procedures and confirmed if the responding Suppliers were deemed responsive or non-responsive.

Summary of Evaluation Committee Activity

The members of the Evaluation Committee included Melissa Mattson, Director of Administrative Services with CPC; Joni Puffett, Marketing & Vendor Relations Facilitator with AEA; and Jerome Evans, Program Representative with CPC.

Six (6) proposals were received by the submission deadline. Proposals were reviewed for compliance with the mandatory requirements set forth in the Request for Proposal (RFP). Five (5) proposals were found to be compliant and deemed responsive.

The Evaluation Committee conducted their evaluation the week of September 18, 2023. The Committee met virtually to review and discuss the responses collectively on September 26, 2023. A summation of their evaluation is included below.

Evaluation Committee Discussion & Overview

Upon review of the Supplier's responses, the evaluation committee agreed on the following:

Efficiency Integrated Solutions

- 1. The Supplier is headquartered in Atlanta, Georgia, and had no prior presence or previous stales in the fivestate territory. Significant concern about how they plan to operate in this niche and location of the market. Concern about costs associated with travel to conduct their self-performing audits.
- 2. The Supplier has conducted minimal work in the public sector. Most, if not all work has been completed in the commercial sector. Project deliverable, references, and all job descriptions were from the commercial sector.
- 3. The Supplier's response lacked clear direction on how they were going to deploy the contract to any of the participating states and avoiding answering other questions in the questionnaire.

- 4. The Supplier would manage the receipt of rebates/incentives received by filing paperwork and providing the discount to the participating agency upfront, while they wait for actual reimbursement from the utility provider.
- 5. The Supplier is requesting a minimum job requirement of \$5,000 for material only or \$40,000 minimum for a full turn-key project. Per the price schedule, 20,000 sq. feet approximately.
- 6. The Supplier offered the longest warranty for materials and workmanship (10 years). Costs for mobilization, labor, and/or shipping may outweigh warranty duration.
- 7. The Supplier's design services are itemized at the highest rate amongst respondents.
- 8. Committee expressed concern that a no-charge audit only if the project is awarded to the Supplier; this requires a mandatory commitment to a project resulting from an audit.
- 9. Additional concern from the committee due to the low discount offer (5%).
- 10. The Supplier is offering an additional 5% volume discount on design and project management services on projects valued at \$250,000 to \$1 million.

<u>NCLED</u>

- 1. The Supplier has been serving Wisconsin for most of their tenure which includes public, private, and commercial clients. The Supplier has completed a few projects in Minnesota. The retention rate is high and often receives continuous referrals from public agencies.
- 2. The Committee had some concerns about the ability to service other states as they are currently only licensed in Wisconsin. The Supplier has expressed interest in obtaining licensure for other states.
- 3. The Supplier is a recent recipient of the Trade Ally Contractor Energy Efficiency award. Before focusing on LED, the Supplier was solely an electrical contractor.
- 4. The Supplier would manage the receipt of rebates/incentives received by filing paperwork and providing the discount to the participating agency upfront, while they wait for actual reimbursement from the utility provider.
- 5. The Supplier operates its business with a smaller team, and they travel as a company. Some concerns were noted again regarding the ability to keep up with potential work when moving as a unit. Audit availability vs. project availability; team capacity may be limited.
- 6. The Supplier operates on a progress-payment basis. 50% down and balance net 30 after project completion. They also offer a lease option that can go out as far as 10 years.
- 7. The Supplier is proposing the lowest costs on auditing services as compared to other respondents. The Committee is concerned over "Free" and no per diem and mileage charges when looking at the vast mileage of the five participating states. Concerning that their intent is to stay in Wisconsin.
- 8. The Supplier is offering four (4) lines of LED manufacturers with a 10% discount off list.

Premier Lighting

- 1. The Supplier is a Small/Women-Owned Business Enterprise (SBE/WBE) lighting supplier and turn-key retrofit company since 1991 (32 years).
- 2. The Supplier operates with a small team. They conduct the audits internally and utilize a trusted installer network to complete projects.
- 3. The Supplier and its warehouse are in St. Paul, MN. They maintain local stock as well as a partnership with the manufacturer, Keystone Technologies which allows them to access various warehouses across the United States.
- 4. The Supplier conducts about 10% of their work in the public sector, approximately 50-60 public customers across the states. Currently don't take up a large market share in public work based off numbers provided.
- 5. The Supplier indicated that they only purchase product and materials from U.S. based companies.
- 6. The Supplier has exempted multiple agencies from contract pricing.
- 7. The Supplier can accept the rebate and deduct it from the end-user's bill, or they customer can pay in full and wait for the rebate directly, relying on customer preference.
- 8. The Supplier noted a potential surcharge if a shipment doesn't meet \$1,000 in freight allowances; surcharge was not defined.
- 9. The Supplier is willing to work with participating agencies to determine progress payments for large projects and allow net 30 on LED sales.

- 10. The Supplier's audit services (per square foot) are competitive and their per diem is higher priced, but lower on mileage rates. Mileage will apply to all agencies outside of a 100-mile radius of Minneapolis, MN. The audit fee, design services, and project management are waived if the project runs through the Supplier.
- 11. The Supplier's labor rates are competitive when using internal and external installer networks to complete the project. Mileage and per diem are the same for audit services, however, the mileage fee for labor is the current IRS tax rate.
- 12. The Supplier is offering four (4) lines of LED manufacturers with a 10-65% discount off list varying by manufacturer. In addition, the Supplier is offering volume discounts on:
 - a. All manufacturers 5%, \$100,000+
 - b. Satco 5%, \$10,000 \$50,000
 - c. Satco 6%, \$50,000+
 - d. Keystone 2%, \$15,000 99,999

The Retrofit Companies

- 1. The Supplier is a Small/Women-Owned Business Enterprise (SBE/WBE) company since 1992 (31 years).
- 2. The Supplier has a team of lighting auditors and project developers that work specifically with the LED solutions. The Supplier also indicated that they are manufacturer neutral and have great working relationships with the manufacturers thus allowing the Supplier the ability to design and pitch the best solutions to the client.
- 3. The Supplier does not stock a lot of products due to the continuing evolution of LED technology; this prevents needing to sell stocked product to customer that is obsolete. Flexibility and partnership allow the customer to decide what will be best for them and their needs.
- 4. In 2023, the Supplier audited and developed over 130 public agency projects in Minnesota. They have indicated limited projects in Wisconsin, but note plans for growth and sales potential in Wisconsin, Iowa, North Dakota, and South Dakota. The Supplier is continuing to grow and has invested in a partner vetting process to assist with project completion (installation) like an installer network. The Supplier has been conducting most of its installs through in-house installers and electricians.
- 5. The Supplier presents findings and lighting solutions in a "good, better, best" method explaining the cost savings, pros/cons of each solution. The Supplier quotes a Retrofit kit which allows a work-around option when operating with different age buildings and materials.
- 6. The Supplier will make attempts to take and accept the rebate initiative on behalf of the customer, this prevents the customer from allocating/paying for the entire project until the rebate finalizes. However, some utility companies do not allow this method.
- 7. The Supplier's lighting audit services are competitive along with their per diem rates and mileage rates. The audit includes design services. Project management services are also competitive. Both the audit and project management services are waived if the full project runs through the Supplier.
- 8. The Supplier is offering 16 lines of LED manufacturers all with a 15% discount off list.

Voss Electric

- 1. The Supplier has been in business since 1939 and has grown to include 13 branches nationwide. Initial work was primarily around distribution of replacement lamps and ballasts up until 10 years ago when they started offering full turn-key installations.
- 2. The Supplier has multiple contracts accessible to participating agencies, they include NCPA, OMNIA, the State of Minnesota (lamps and ballasts materials only) and a Nebraska State Contract. Agencies purchasing from the State of Minnesota contract are exempt from proposed contract pricing.
- 3. In 2022-2023, the Supplier conducted 56 institutional audits in the five (5) states.
- 4. The Supplier will deduct the projected rebate from the final cost so the client doesn't have to wait for the rebate to process. The Supplier can provide rebate pass through if required by the utility.
- 5. The Supplier requires a minimum area of 7,000 sq. feet. For projects below the minimum, all rates associated with the lighting audit will be increased by a 2x multiplier (double).
- 6. The Supplier is currently not licensed to perform electrical installation in North Dakota. The Supplier can still provide audit services, product specifications, and product supply in North Dakota.
- 7. The Supplier's audit, design, project management, per diem, and mileage are the highest of all proposers. Mileage calculations start from the bast location of the auditor that is readily available.

- 8. The Supplier's labor rates are the highest amongst proposers. The per diem rate is high, but mileage is not charged. Per diem rates increase significantly for projects in North Dakota, Minnesota, and Wisconsin if they are more than 75 miles from Duluth, Bloomington, or Rochester, Minnesota.
- 9. The Supplier is offering 10 lines of LED manufacturers all with an 87% discount off list.

Recommendation

After analysis of the Supplier/s proposals, the Evaluation Committee recommends that contracts be awarded to Premier Lighting, Inc. and The Retrofit Companies.

The recommendation and awards are subject to final review by CPC Administration and approval by the Board of Directors.

Melissa Mattson, Director of Administrative Services Cooperative Purchasing Connection Joni Puffett, Marketing & Vendor Relations Facilitator AEA Purchasing

Jerome Evans, Program Representative Cooperative Purchasing Connection

> Lisa Truax, Procurement Coordinator Cooperative Purchasing Connection

Attachment: Evaluation Scoring Summary

cc: Procurement File

RFP 24.5 - Lighting Audit Services & LED Solutions

Evaluation Scoring Summary

| | Efficiency Integrated Solutions, Inc. | NCLED | Premier Lighting, Inc. | The Retrofit Companies | Voss Electric |
|---------------------|------------------------------------------|-------|------------------------|------------------------|---------------|
| Evaluator #1 | 128 | 170 | 200 | 210 | 173 |
| Evaluator #2 | 113 | 169 | 218 | 222 | 199 |
| Evaluator #3 | 137 | 184 | 199 | 190 | 195 |
| | | | | | |
| Average Total Score | 126 | 174 | 206 | 207 | 189 |

| Evaluation Criteria | Points Available | Efficiency Integrated Solutions, Inc. | NCLED | Premier Lighting, Inc. | The Retrofit Companies | Voss Electric |
|----------------------------------------------------------|------------------|------------------------------------------|-------|------------------------|------------------------|---------------|
| Technical Proposal | | | | | | |
| Qualifications & Experience | 75 | 42 | 55 | 70 | 70 | 66 |
| Warranty | 10 | 6 | 9 | 6 | 8 | 6 |
| Financials & Level of Support | 10 | 6 | 7 | 5 | 7 | 5 |
| Marketing & Partnership | 16 | 8 | 8 | 13 | 14 | 11 |
| Exceptions & Deviations | 5 | 5 | 5 | 5 | 5 | 4 |
| References | 5 | 4 | 5 | 5 | 5 | 5 |
| Pricing Proposal | | | | | | |
| 1 – Lighting Audit Services *7 - Project Deliverables | 60 | 27 | 50 | 47 | 49 | 40 |
| 2.1 – LED Category Discount | 30 | 12 | 18 | 24 | 25 | 28 |
| 2.2 – LED Lighting | 30 | 13 | 18 | 24 | 24 | 24 |
| 3 – Volume Discounts | 9 | 4 | 0 | 6 | 0 | 0 |
| | | | | | | |
| Average Total Score | 250 | 126 | 174 | 206 | 207 | 189 |

| "Pleas | Weave note this workback has multiple tabs. | | | | | | |
|-------------|-------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|-------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ligh | ting Assessment & Design | | | | | | |
| Lightin | ng Audit & Assessment (per square foot) | Standard Price & Rate | Discounted Price & Rate | Momber Savings | Per Diem Charges (daily rate, if any) | Sileage Charges (per mile, if any) | Notes/Comments |
| 10 | Lighting Audit & Assessment (per square foot) | \$ 0.03 | s - | 100.00% | s - | s - | \$0 for audit services only if project is awarded to \$15 |
| - | | | | | | | |
| in a | Lighting Audit & Assessment (per square tot) | · · | · · | WVALUE: | · · | · · | Our Adding are nee |
| ~ | Liebting Audit & Americant (ner versus Sut) | \$ 0.05 | \$ 001 | 40.00% | \$ 150.00 | \$ 050 | Design wained if replact ones through us doubling outside of 102 |
| ĝ | | | • •••• | | | | mile radius of Minneapolis. Per diem if overnight required |
| a. 2 | Lighting Audit & Assessment (per square foot) | \$ 0.07 | \$ 0.04 | 42.86% | \$ 125.00 | \$ 0.655 | Current IRS Tax Rate for mileage. Mileage and Per Diem is |
| 8 | | | | | | | applicable case by case |
| | Lighting Audit & Assessment (per square foot) | \$ 0.04 | \$ 0.02 | 0.01% | \$ 179.00 | \$ 0.75 | Mileage calculations will start from the base location for the |
| × | | | | | | | auditor selected for each specific project. These locations may vary based on availability. |
| Design | Services | Standard Price & | Discounted Price & | Member | Per Diem Charges | Mileage Charges | Notes/Comments |
| 8 | Design Services: Facility under 20,000 sqft | Rate \$ 1,000.00 | Rate \$ 500.00 | Savings 50.00% | (daily rate, if any) | (per mile, if any) | Per design for facilities under 20,000 sqft. |
| - | Design Services: Facility over 20,000 sqft Design Services | \$ 3,000.00 | \$ 1,500.00 | \$0.00% | s . | s . | Our Designs are completed in house and are free |
| n x n | | | | | | | |
| k | Design Services | \$ 80.00 | \$ 60.00 | 25.00% | \$ 150.00 | \$ 0.50 | Fee is waived if project noes through us. Anything outside of 100 |
| ren/ | | | | | | | mile radius of Minneapolis. Per diem if overnight required |
| a. 2 | Design Services | \$. | s . | 0.00% | s . | s . | Design services included in deliverable of the Lighting Audit & |
| page | | | | | | | Assessment. |
| 8 | Design Services / hr | \$ 195.00 | \$ 150.00 | 21.43% | \$ 179.00 | \$ 0.75 | Mileage calculations will start from the base location for the |
| 8 | | | | | | | auditor selected for each specific project. These locations may vary based on availability. |
| Destar | Frankras | Standard Price & | Discounted Price & | Momber | Per Diem Charges | Mileage Charges | |
| 20 Marine | Project Management: Facility under 20.000 roft | Rate \$ 1,500.00 | Rate \$ 1,500.00 | Savings 57,14% | (daily rate, if any) \$ 100.00 | (per mile, if any) | NODES/COMMENTS |
| | Project Management: Facility over 20.000 soft | \$ 7.000.00 | \$ 1,000,00 \$. | 57.14% | s 100.00 | s . | Our Project Management is done in house and is free |
| NOLE | | | | | | | |
| le r | Project Management | \$ 80.00 | \$ 60.00 | 25.00% | \$ 150.00 | \$ 0.50 | Fee is waived if project goes through us. Anything outside of 100 |
| Press | | | | | | | mile radius of Minneapolis. Per diem if overnight required |
| rofit | Project Management | \$ 200.00 | \$ 125.00 | 37.50% | \$ 125.00 | \$ 0.655 | Current IRS Tax Rate for mileage. Project Management, from concept to completion is included in all number revisers. |
| Red | | | | | | | in an unitary project. |
| Voss | Project Management | \$ 195.00 | \$ 150.00 | 21.43% | \$ 179.00 | \$ 0.75 | Mileage calculations will start from the base location for the auditor selected for each specific project. These locations may vary |
| Inst- | Illation [Labor] **Prevailing wave projects (restable on | subject to hisbory | ourly rates (charge | s. Prese | ine ware rates the | inte by MN counter | based on availability. Satisfications are required to actife the Wester of |
| preva | ing wages are required (state/federal funding as part or all o | the project). | 1000 C | | and a state | (and the second s | and a second sec |
| Regula | r Boars | Standard Price & | Discounted Price & | Member | Per Diem Charges (daily rate if work | Mileage Charges | Notes/Comments |
| 8 | Hourly Rate - Regular Hours | \$ 95.00 | \$ 80.00 | 15.79% | \$ 35.00 | \$ 0.655 | Per IRS standards |
| 8 | Hourly Rate - Regular Hours | \$ 88.00 | \$ 80.00 | 9.09% | Nane | None | |
| 10N | | | | | | | |
| arier | Hourly Rate - Regular Hours | \$ 130.00 | \$ 105.00 | 19.23% | \$ 150.00 | \$ 0.65 | Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| ž | | | | | | | |
| profit | Hourly Rate - Regular Hours | \$ 150.00 | \$ 135.00 | 10.00% | \$ 125.00 | \$ 0.655 | Current IRS Tax Rate for mileage |
| ă | | | | | | | |
| ĝ | Project Manager - Insurity Kate - Kegutar Indurs | \$ 225.00 | \$ 175.00 | 14.27% | \$ 179,00 | · · | Placement mourly lates. I raves will be charged on an nourly basis from the electricians base location. |
| | Interneties 1. Marche Baie - Research Marces | 8 247.00 F 140.00 | 8 177.00 F 170.00 | 14.200 | 5 179.00 | | Per diem rates will increase to \$395/day in project's done in ND, |
| | Appendix 2 - Hourly Pate - Regular Hours | \$ 145.00 | \$ 135.00 | 14 79% | \$ 179.00 | · · | NN, WI ITTNY IN HATE than 75 miles from Dualty, moornington or Rochester NN. |
| | | Quadant Price & | Discounted Price & | Mamber | Per Diem Charnes | Missas Charmer | |
| Evenir | Standa Tata Romaina | Rate | Rate | Savings | (daily rate, if any) | (permile, if any) | Notes/Connents |
| 8 | Nearly State - Exemine | 5 80.00 | 5 80.00 | 9.09% | Name | Nane | |
| N I | | | | | | | |
| <i>lice</i> | Hourly Rate - Evening | \$ 195.00 | \$ 150.00 | 21.43% | \$ 150.00 | \$ 0.65 | Anything outside of 100 mile radius of Minneapolis. Per diem if |
| Pres | | | | | | | over night, requires |
| rofit | Hourly Rate - Evening | \$ 175.00 | \$ 160.00 | 8.57% | \$ 125.00 | \$ 0.655 | Current IRS Tax Rate for mileage |
| Re. | | | | | | | |
| 100 | Project Manager - Hourty Kate - Evening, Weekend, Holidays Journeyman - Hourty Rate - Evening/Weekend/Holidays | \$ 347.00 | \$ 337.00 | 14.29% | \$ 179.00 | s . | |
| | Apprentice 1 - Hourly Rate - Evening/Weekend/Holidays Apprentice 2 - Hourly Rate - Evening/Weekend/Holidays | \$ 270.00 \$ 243.00 | \$ 240.00 \$ 213.00 | 14.29% | \$ 179.00 \$ 179.00 | s . s . | |
| Weeks | nd/Nolidays | Standard Price & | Discounted Price & | Momber | Per Diem Charges (daily rate if any) | Mileage Charges | Notes/Comments |
| 8 | Hourly Rate - Weekend/Holidays | \$ 142.50 | \$ 120.00 | 15.79% | \$ 35.00 | \$ 0.655 | Per IRS standards |
| 8 | Hourly Rate - Weekend/Holidays | \$ 132.00 | \$ 120.00 | 9.09% | None | None | |
| ž | | | | | | | |
| - and | Hourly Rate - Weekend/Holidays | \$ 220.00 | \$ 175.00 | 21.43% | \$ 150.00 | \$ 0.65 | Anything outside of 100 mile radius of Minneapolis. Per diem if overnight required |
| 2 | Revolution Marshard (McKalana | , | , | 1000 | , | | Connect IIII Too Bate for miles or |
| etrofi | many are welled/holdays | 200.00 | 105.00 | -50% | · 125.00 | . u.655 | Conversion and Kalls for manage |
| 8 | Project Manager - Hourir Rate - Drening/Weekend/Britdway | \$ 239.00 | \$ 269.00 | 14,29% | \$ 179.00 | 5 | |
| νa | lourneyman - Hourly Rate - Drening/Weekend/Holidays | \$ 347.00 | \$ 337.00 | 14.29% | \$ 179.00 | s . | |
| | Approvide 2 - Hourly Rate - Evening/Weekend/Holdays | \$ 241.00 | \$ 213.00 | 14.29% | \$ 179.00 | \$ | |
| Othe | r Services | | | | | | |
| Rebati | Faifilinent | Standard Price & Rate | Discounted Price & Rate | Momber Savings | Per Diem Charges (daily rate, if any) | Sileage Charges (per mile, if any) | Notes/Comments |
| 8 | Rebate Fulfilment (per square foot) | \$ 0.05 | \$ 0.02 | 60.00% | | | Discount price only if project is awarded to 125 |
| 8 | Rebate Fulfilment | Free | Free | WALUE: | Nane | Nane | Completed in house and is Free |
| NCIL | | | | | | | |
| nier | Rebate Fulfilment | \$ 100.00 | s - | 200.00% | | | We will do this service at no cost for members. |
| Pres | | | | | | | |
| brodit | Rebate Fulfilment | \$ 200.00 | \$ 125.00 | 37.50% | \$ 125.00 | Current IRS Tax Rate | Rebate fulfilment included in turnkey project |
| S Re | Rebate Difflorent | _ | | 0% | | | TBD / Project Score |
| Vos | Arture russesse | | | 10 | | | rest contraction |
| Recycl | ing Services | Standard Price & | Discounted Price & | Member | Per Diem Charges | Mileage Charges | Notes/Comments |
| 20 | Recording Services (net arrange from) | Rate | Rate | Savings | (dally rate, if any) | (per mile, if any) | internet in the second s |
| ű. | Bacarline Services | · | - 815 | 40.000 | Nane | None | |
| NOLEI | | - 0.25 | - «15 | ******** | | | |
| - | Recycling Services | \$ 0.65 | \$ 0.25 | 61.54% | | | Pricing varies by item- this is for a 4' fluorescent |
| Press | | | | | | | |
| ų | Recycling Services | \$. | s . | 0.00% | | | Recycling rates dependant on waste types and packaging needed |
| Retu | | | | | | | recycling services included in turnkey project |
| 8.0 | Recycling Services | | | 0% | | | TBD / Project Scope |
| - | | Quadant Price # | Discussion Prime | Mambro | Per Diem Charmen | Missas Churry | |
| Traini | ng services ' | Rate | Rate | Savings | (daily rate, if any) | (permile, if any) | Notes/Comments |
| 8 | Training: Per 6 hour training session | \$ 2,000.00 | \$ 1,000.00 | 50.00% | \$ 100.00 | \$ 0.65 | Per IRS standards |
| S C | 1 rannag | 1004 | 1000 | *VALUE | Nate | None | Lompieted in nouse and Is Free |
| - | Training | | | 0.00% | | | |
| Press | | | | | | | |
| a fé | Training (Lighting Controls Commissioning and Training) | \$ 200.00 | \$ 125.00 | 37.50% | \$ 125.00 | \$ 0.65 | Lighting Controls training and commissioning included in turnley project. Milesses per Correct US T-n Pate |
| 2 | | | | | | | |
| <u> </u> | | | | 1110/ | \$ 179.00 | \$ 0.75 | Milease calculations will start from the base location for the trainer |

1 11.0

| From: | Lori Mittelstadt |
|--------------|--------------------------------------------------|
| То: | afigueiras@energyintegratedsolutions.com |
| Cc: | Lori Mittelstadt; Melissa Mattson |
| Subject: | RFP 24.5 Lighting Audit Services & LED Solutions |
| Date: | Monday, October 16, 2023 9:15:33 AM |
| Attachments: | image001.png |



Dear Alex Figueiras:

The Cooperative Purchasing Connection (CPC) would like to thank you for your time, effort, and interest in supplying a response for Request for Proposal (RFP) #24.5 – Lighting Audit Services & LED Solutions.

The evaluation committee, using the criteria outlined in the RFP documents, have completed their review of the proposals received. The evaluation committee did not recommend your proposal for award.

CPC would like to thank you for your proposal and interest in this RFP. CPC will look forward to your participation in future RFPs for similar engagements.

Should you have any questions about this matter, please feel free to contact me.

Regards,

Melissa Mattson | Director of Administrative Services Cooperative Purchasing Connection

| From: | Lori Mittelstadt |
|--------------|--------------------------------------------------|
| To: | jay@ncledlighting.com; dale@ncledlighting.com |
| Cc: | Lori Mittelstadt; Melissa Mattson |
| Subject: | RFP 24.5 Lighting Audit Services & LED Solutions |
| Date: | Monday, October 16, 2023 9:17:54 AM |
| Attachments: | image001.png |



Dear Jay Polena:

The Cooperative Purchasing Connection (CPC) would like to thank you for your time, effort, and interest in supplying a response for Request for Proposal (RFP) #24.5 – Lighting Audit Services & LED Solutions.

The evaluation committee, using the criteria outlined in the RFP documents, have completed their review of the proposals received. The evaluation committee did not recommend your proposal for award.

CPC would like to thank you for your proposal and interest in this RFP. CPC will look forward to your participation in future RFPs for similar engagements.

Should you have any questions about this matter, please feel free to contact me.

Regards,

Melissa Mattson | Director of Administrative Services Cooperative Purchasing Connection

| From: | Lori Mittelstadt |
|--------------|--------------------------------------------------|
| То: | mario.mammina@vosslighting.com |
| Cc: | Lori Mittelstadt; Melissa Mattson |
| Subject: | RFP 24.5 Lighting Audit Services & LED Solutions |
| Date: | Monday, October 16, 2023 9:19:30 AM |
| Attachments: | image001.png |



Dear Mario Mammina:

The Cooperative Purchasing Connection (CPC) would like to thank you for your time, effort, and interest in supplying a response for Request for Proposal (RFP) #24.5 – Lighting Audit Services & LED Solutions.

The evaluation committee, using the criteria outlined in the RFP documents, have completed their review of the proposals received. The evaluation committee did not recommend your proposal for award.

CPC would like to thank you for your proposal and interest in this RFP. CPC will look forward to your participation in future RFPs for similar engagements.

Should you have any questions about this matter, please feel free to contact me.

Regards,

Melissa Mattson | Director of Administrative Services Cooperative Purchasing Connection September 29, 2023

Premier Lighting Inc. Attn: Greg Ehrich, Vice President 2885 County Drive, Suite 135 St. Paul, MN 55117

Award Decision, RFP #24.5 - Lighting Audit Services & LED Solutions

Dear Greg Ehrich,

The Cooperative Purchasing Connection (CPC) would like to thank you for your time, effort, and interest in supplying a response for Request for Proposal (RFP) #24.5 - Lighting Audit Services & LED Solutions.

COOPERATIVE Purchasing CONNECTION

The evaluation committee, using the criteria outlined in the RFP documents, has completed its review of the proposals received.

CPC is pleased to announce that your proposal received the recommendation for award. This decision is subject to the approval of the Boards of Directors and the successful negotiation of a mutually acceptable contract.

I will be contacting you soon to finalize a contract for the awarded goods and/or services. Thank you for submitting your proposal; CPC looks forward to working with you.

Regards,

in Mimm

Lisa Truax | Procurement Coordinator Cooperative Purchasing Connection

September 29, 2023

The Retrofit Companies Attn: Jake Andrist, Director 1010 Hoffman Drive, Suite A Owatonna, MN 55060

Award Decision, RFP #24.5 - Lighting Audit Services & LED Solutions

Dear Jake Andrist,

The Cooperative Purchasing Connection (CPC) would like to thank you for your time, effort, and interest in supplying a response for Request for Proposal (RFP) #24.5 – Lighting Audit Services & LED Solutions.

COOPERATIVE Purchasing CONNECTION

The evaluation committee, using the criteria outlined in the RFP documents, has completed its review of the proposals received.

CPC is pleased to announce that your proposal received the recommendation for award. This decision is subject to the approval of the Boards of Directors and the successful negotiation of a mutually acceptable contract.

I will be contacting you soon to finalize a contract for the awarded goods and/or services. Thank you for submitting your proposal; CPC looks forward to working with you.

Regards,

in MTMM

Lisa Truax | Procurement Coordinator Cooperative Purchasing Connection

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part I will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | Premier Lighting Inc | Date | 8.31.23 |
|-------------------------|------------------------|------------------|--------------------|
| Address | 2885 Country Dr Ste135 | City, State, Zip | St. Paul, MN 55117 |
| Contact Person | Greg Ehrich | Title | VP |
| | | | |
| Authorized Signature | Greg Chrick | Title | VP |
| Email | greg@premierltg.com | Phone | 651-200-3330 |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | Cooperati | ive Purch | asing Connection | AuthorizedSignature | Jan Eastes 6D9BB132BB3040A | |
|--------------------------------|-----------|---------------|------------------|---------------------|-------------------------------|--|
| Name | Jane East | es | | Title | Deputy Executive Director | |
| Awarded this | 29th | day of | September 2023 | Contract # | 24.5 - PLI | |
| Contract/Agreement to Commence | | November 1, 2 | 023 | | | |

Contract Offer & Award

Instructions: Part I of this form is to be completed by the Vendor and signed by its authorized representative. Part I will be completed by the Cooperative Purchasing Connection (CPC) upon the occasion of an award.

COOPERATIVE Purchasing

CONNECTION

Part I: Vendor

In compliance with the Request for Proposal (RFP), the undersigned warrants that I/we have examined all General Terms and Conditions, Forms and Specifications, and being familiar with all of the conditions surrounding the solicitation, hereby offer and agree to furnish all goods and services in compliance with all terms, conditions, specifications, and amendments in this solicitation and any written exceptions in the offer. Signature also certifies understanding and compliance with this proposal. The undersigned understands that his/her competence and responsibility and that of his/her proposed subcontractors, time of completion, as well as other factors of interest to CPC as stated in the evaluation section, will be a consideration in making the award. This contract offer and award binds said Vendor to all terms and conditions stated in the proposal.

| Business Name | The Retrofit Companies, Inc. (dba Retrofit Lighting & Design) | Date | 8/31/2023 | |
|-------------------------|---------------------------------------------------------------|------------------|--------------------|--|
| Address | 1010 Hoffman Drive Suite A | City, State, Zip | Owatonna, MN 55060 | |
| Contact Person | Jake Andrist | Title Director | | |
| | | | | |
| Authorized Signature | Jake Andrist | Title | Director | |
| Email | jandrist@retrofitcompanies.com | Phone | (507) 363-0656 | |

Part II: CPC

Your response to the identified proposal is hereby accepted. As a Vendor, you are now bound to offer and provide the products and services identified within this solicitation, your response, including all terms, conditions, specifications, exceptions, and amendments. The initial term of this contract shall be for up to twenty-four (24) months and will commence on the date indicated below. There will be an optional renewal for a period lasting no longer than one (1) additional 24-month period. CPC may grant an extension under certain criteria and conditions.

| Agency | Cooperative Purchasing Connection | | | Authorized Signature | Jaw Eastes 6D9BB132BB3040A |
|--------------------------------|------------------------------------------|---------------|----------------|-------------------------|-------------------------------|
| Name | Jane Eastes | 5 | | | Deputy Executive Director |
| Awarded this | 29th | day of | September 2023 | Contract # | 24.5 - RLD |
| Contract/Agreement to Commence | | November 1, 2 | 2023 | | |