| LUMINAIRE SCH | EDULE | | | | | | | | | |
|----------------|-------|-------|----------------|--------|-------|------------|-----------------|-------------|-------------------------------------------|-----------------------------------|
| SYMBOL | QTY | LABEL | ARRANGEMENT | LUMENS | LLF | BUG RATING | WATTS/LUMINAIRE | TOTAL WATTS | MANUFACTURER | CATALOG LOGIC |
| | 3 | A1 | SINGLE | 12019 | 1.030 | B3-U0-G3 | 134.2 | 402.6 | Cree Lighting | ARE-EDG-3M-DA-06-E-UL-XX-700-57K |
| | 2 | A4 | SINGLE | 8891 | 1.030 | B1-U0-G2 | 134 | 268 | CREE, INC. | ARE-EDG-3MB-DA-06-E-UL-XX-700-57K |
| | 1 | B1 | SINGLE | 12678 | 1.030 | B3-U0-G2 | 134 | 134 | Cree Inc. | ARE-EDG-4M-DA-06-E-UL-XX-700-57K |
| | 2 | B2 | BACK-BACK | 12678 | 1.030 | B3-U0-G2 | 134 | 536 | Cree Inc. | ARE-EDG-4M-DA-06-E-UL-XX-700-57K |
| \$ | 1 | B3 | 2 @ 90 DEGREES | 12678 | 1.030 | B3-U0-G2 | 134 | 268 | Cree Inc. | ARE-EDG-4M-DA-06-E-UL-XX-700-57K |
| | 6 | B4 | SINGLE | 9549 | 1.030 | B1-U0-G2 | 134 | 804 | CREE, INC. | ARE-EDG-4MB-DA-06-E-UL-XX-700-57K |
| | 18 | C1 | SINGLE | 13251 | 1.030 | B3-U0-G1 | 134 | 2412 | CREE, INC. | CAN-304-SL-RD-06-E-UL-XX-700-57K |
| | 12 | EB1 | Single | 1388 | 1.000 | B1-U1-G0 | 19 | 228 | WAC Lighting | WP-LED119-30 |
| | 7 | EF1 | SSL-4_1 | 992 | 1.000 | B1-U1-G0 | 17.444 | 488.432 | FC Lighting | CVLWET1.5-4-4K-80CRI-1040 |
| | 4 | EW1 | Single | 500 | 1.000 | B0-U0-G0 | 10.5 | 42 | CARIBONI GROUP | WS-W2509-3000K-BZ |
| > | 3 | W3 | SINGLE | 1557 | 1.030 | B0-U0-G1 | 25 | 75 | CREE, INC. | SEC-EDG-3MB-WM-02-E-UL-XX-350-57K |
| \blacksquare | 10 | Z1 | Single | 3348 | 1.000 | B1-U0-G1 | 25.4 | 254 | COOPER LIGHTING SOLUTIONS - McGRAW-EDISON | ISC-SA1B-740-U-SL4-WH |

| UMINAIRE L | OCATION SUMMA | ARY | LUMINAIRE L | OCATION SUMMA | NRY |
|------------|---------------|----------|-------------|---------------|--------|
| .UM NO. | LABEL | MTG. HT. | LUM NO. | LABEL | MTG. H |
| | A1 | 20.5 | 35 | EB1 | 10.5 |
| <u>-</u> | A1 | 20.5 | 36 | EB1 | 10.5 |
| 3 | A1 | 20.5 | 37 | EB1 | 10.5 |
| 4 | A4 | 20.5 | 38 | EB1 | 10.5 |
| 5 | A4 | 20.5 | 39 | EB1 | 10.5 |
| ĵ | B1 | 20.5 | 40 | EB1 | 10.5 |
| 7 | B2 | 20.5 | 41 | EB1 | 10.5 |
| 3 | B2 | 20.5 | 42 | EB1 | 10.5 |
|) | B3 | 20.5 | 43 | EB1 | 10.5 |
| 10 | B4 | 20.5 | 44 | EB1 | 10.5 |
| 11 | B4 | 20.5 | 45 | EB1 | 10.5 |
| 12 | B4 | 20.5 | 46 | EF1 | 11.833 |
| 13 | B4 | 20.5 | 47 | EF1 | 11.833 |
| 14 | B4 | 20.5 | 48 | EF1 | 11.833 |
| 5 | B4 | 20.5 | 49 | EF1 | 11.833 |
| 6 | C1 | 21.53 | 50 | EF1 | 11.833 |
| 17 | C1 | 19.32 | 51 | EF1 | 11.833 |
| 8 | C1 | 17.11 | 52 | EF1 | 11.833 |
| 19 | C1 | 21.53 | 53 | EW1 | 14 |
| 20 | C1 | 19.32 | 54 | EW1 | 14 |
| 21 | C1 | 17.11 | 55 | EW1 | 14 |
| 22 | C1 | 21.53 | 56 | EW1 | 14 |
| 23 | C1 | 19.32 | 57 | W3 | 8 |
| 24 | C1 | 17.11 | 58 | W3 | 8 |
| 25 | C1 | 21.53 | 59 | W3 | 8 |
| 26 | C1 | 19.32 | 60 | Z1 | 14 |
| 27 | C1 | 17.11 | 61 | Z1 | 14 |
| 28 | C1 | 21.53 | 62 | Z1 | 14 |
| 29 | C1 | 19.32 | 63 | Z1 | 14 |
| 30 | C1 | 17.11 | 64 | Z1 | 14 |
| 31 | C1 | 21.53 | 65 | Z1 | 14 |
| 32 | C1 | 19.32 | 66 | Z1 | 14 |
| 33 | C1 | 17.11 | 67 | Z1 | 14 |
| 34 | EB1 | 10.5 | 68 | Z1 | 14 |
| | | | 69 | Z1 | 14 |

| FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LU | MEN VALUES | | | | |
|--------------------------------------------------------|------------|------|-----|---------|---------|
| LABEL | AVG | MAX | MIN | AVG/MIN | MAX/MIN |
| CANOPY | 35.15 | 58 | 14 | 2.51 | 4.14 |
| DELIVERY AREA | 4.43 | 6.2 | 2.6 | 1.70 | 2.38 |
| ENTRANCES & EXIT DRIVES | 3.46 | 5.0 | 1.6 | 2.16 | 3.13 |
| PARKING AREA & INTERIOR DRIVE AISLES | 3.73 | 13.2 | 1.0 | 3.73 | 13.20 |
| PROPERTY LINES | 0.04 | 0.5 | 0.0 | N.A. | N.A. |
| UNDEFINED | 0.59 | 9.0 | 0.0 | N.A. | N.A. |

NOTES:

- ALL AREA LIGHTS ON 20 FT. POLES MOUNTED ON 6 IN. CONCRETE BASES
- THIS SITE IS LOCATED IN A REGION WHERE LIGHTING IS REGULATED BY LOCAL ORDINANCES

Exhibit 12 S-847-B Major Modification

REDLEONARD ASSOCIATES

1340 Kemper Meadow Dr, Forest Park, OH 45240 513-574-9500 | redleonard.com REV. BY DATE

DESCRIPTION .

.

ANY SITE PLAN(S), FLOOR PLAN(S), REDDERING(S), LIGHTING LAYOUT(S) AND PHOTOMETRIC PLAN(S) INCLUDING BUT NOT LIMITED TO ANY PROJECT(S) CREATED/PRODUCED BY RED LEONARD ASSOCIATES INC., ARE ONLY INTENDED FOR ILLUSTRATION AND QUOTING PURPOSES ONLY. RED LEONARD ASSOCIATES HAS THE RIGHT TO USE THIRD PARTY LASERS, SCANNERS, AND CAMERAS BUT ACTUAL PROJECT CONDITIONS, DIMENSIONS, AND ACCURACY OF MEASUREMENTS MAY DIFFER FROM THESE OR ANY PARAMETERS. RED LEONARD ASSOCIATES INC. ASSUMES NO LIABILITY FOR WHAT IS CREATED/PRODUCED IN THESE RECREATIONS. THIS INCLUDES BUT IS NOT LIMITED TO THE USE OF, INSTALLATION OF AND/OR INTEGRITY OF EXISTING BUILDING(S), SURROUNDING AREA FOR PRODUCT(S) SUCH AS EXISTING POLE(S), ANCHOR BOLT(S), BASE(S), ARCHITECTURAL AND SIGNAGE STRUCTURE(S), LANDSCAPING PLAN(S), LIGHTING PLAN(S), FIXTURE SELECTION(S) AND PLACEMENT, MATERIAL(S), COLOR ACCURACY, TEXTURE(S), AND ANYTHING ATTRIBUTED TO PHOTO REALISM THAT IS CREATED. FURTHERMORE, RED LEONARD ASSOCIATES INC., DOES NOT ASSUME LIABILITY WHATSOEVER FOR ANY PURCHASES MADE BY CLIENT BEFORE, DURING, OR AT THE CONCLUSION OF THE PUBLISHED WORK. THE CUSTOMER, ITS RELATIVE AFFILIATES, AS WELL AS ANY OTHER PERSON(S) IN VIEWING OF THIS PRODUCT IS RESPONSIBLE FOR VERIFYING COMPLIANCE WITH ANY BUT NOT LIMITED TO ALL CODES, PERMITS, RESTRICTIONS, INSTRUCTIONS, PURCHASES, AND INSTALLATIONS OF OBJECTS VIEWED WITHIN THIS DOCUMENT(S) OR PROJECT(S). SYMBOLS ARE NOT DRAWN TO SCALE. SIZE IS FOR CLARITY PURPOSES ONLY. SIZES AND DIMENSIONS ARE APPROXIMATE, ACTUAL MEASUREMENTS MAY VARY. DRAWINGS ARE NOT INTENDED FOR ENGINEERING OR CONSTRUCTION USE. THIS DOCUMENT, ANY ED LEONARD DRAWING(S), OR PROJECT(S) IS NOT TO BE USED AND/OR INTENDED FOR ENGINEERING OR CONSTRUCTION PURPOSES, BUT FOR ILLUSTRATIVE PURPOSES ONLY. ANY LOCATIONS OF EMERGENCY LIGHTING SHOWN WERE PROVIDED BY OTHERS, RED LEONARD ASSOCIATES IS NOT RESPONSIBLE FOR INSUFFICIENT LIGHTING DURING AN EMERGENCY EVENT.

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[†]3.5 [†]4.0 [†]6.2

3.1 4.0 5.2 10.0

1.9 1.8 1.9 2.0 2.3 3.5

[†]3.9 [†]3.8 [†]2.4 [†]2.√ [†]2.4 [†]3.

1 3.5 3.0 2.6 2.3 2.2 3.

[†]3.9 [†]3.1 [†]2.6 [†]2.4 [†]2.3 [†]3.3

3.3 3.3 2.8 2.1

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34 \$61 \$7 \$43 \$\frac{29}{41}\$ \$49 \$48 \$44 \$\frac{25}{51}\$ \$52 \$45 \$\frac{24}{64}\$ \$48 \$49 \$3 \$\frac{27}{64}\$ \$47 \$\frac{2}{6}\$\$1\frac{34}{6}\$ \$1\frac{3}{6}\$\$2\frac{1}{3}\$\$4\frac{3}{3}\$\$1\frac{2}{3}\$\$4\frac{2}{3}\$\$1\frac{1}{3}\$\$4\frac{2}{3}\$\$3\frac{2}{3}\$\$4\frac{2}{3}\$\$3\frac{2}{3}\$\$4\frac{2}{3}\$\$3\frac{2}{3}\$\$4\frac{2}{3}\$\$3\frac{2}{3}\$\$4\frac{2}{3}\$\$3\frac{2}{3}\$\$4\frac{2}{3}\$\$3\frac{2}{3}\$\$4\frac{2}{3}\$\$3\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$\$6\frac{2}{3}\$

3.6 3.8 3.3 2.6 2.6 3.5 4.1 4.2 4.4 4.8 4.6 3.9 4.2 4.0 3.4 2.8 3.5 6.1 7.8 8.1 1.3 7.2 6.1 3.9 2.6 1.9 1.9 2.3

SCALE: LAYOUT BY:
1" = 30' LMP

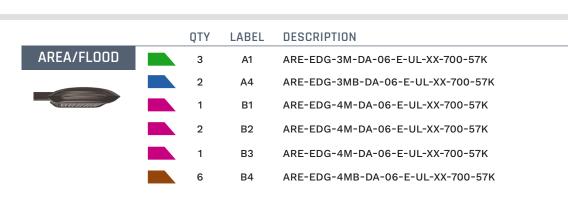
DWG SIZE: DATE:

09/21/23

D

WAWA #8561
BURTONSVILLE, MD
DRAWING NUMBER:
RL-9175-S1













QTY LABEL DESCRIPTION 4 EW1 WS-W2509-3000K-BZ

WAC LIGHTING

Available in single and twin light configurations, this die-cast aluminum LED

wall luminaire is Wet Location listed for a broad range of exterior lighting

applications. Designed with asquare profile, this version of Rubix mounts

Die-cast Aluminum

Integrated LED

70000 Hours

Compliant, ADA

120-277 VAC, 50/60Hz

ELV: 100-15%, 0-10V: 100-10%

-40°F to 122°F (-40°C to 50°C)

Mounts directly to junction box, Can be mounted on wall

Electrostatically Powder Coated: White, Graphite, Bronze

UL, cUL, Wet Location Listed, IP65, Title 24 JA8-2019

waclighting...com | Phone (800) 526.2588 | Fax (800) 526.2585 | Headquarters/Eastern Distribution Center 44 Harbor Park Drive Port Washington, NY 11050

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. March 2022

30W, 16W

Fixture Type:

Project:

Location:

Catalog Number:

WS-W2509



Rubix

Wall Mount 3000K

Example: WS-W2509-AL

upwards or downwards.

• 2509 Single, 2510 Double

· Driver concealed within the fixture

DESCRIPTION

FEATURES

5 year warranty

Input:

Dimming:

Rated Life:

Mounting:

Standards:

Finish:

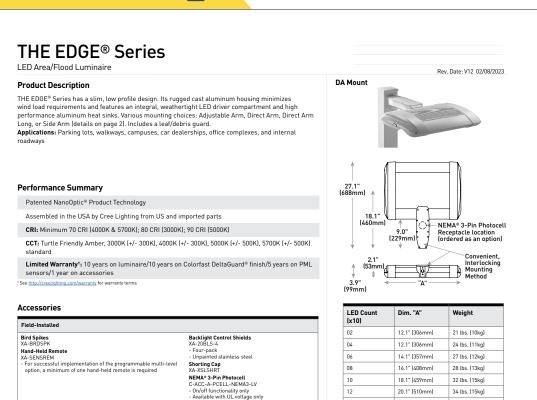
Light Source:

SPECIFICATIONS

Model & Size Color Temp & CRI

○ WS-W2509 Single○ WS-W2510 Double○ 3000K 90○ 3000K 90

ADDITIONAL FIXTURE INFO



| | • | rmatio G-2M-AA- | n 12-E-UL-: | SV-350 | | | | | | | | 22.1" (560mm) 24.1" (611mm) e page 22 for wei | 37 lbs. (17kg) 41 lbs. (19kg) ght & dimensions |
|-------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------|-------------|------------------------------------------------------------|-----------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product | Optic | | | Mounting* | LED Count (x10) | E Series | Voltage | Color Op- tions | Drive Current | Options | | | |
| | Type II Medium 2MB Type II Medium w/BLS 2MP | w/BLS 3MP Type III Medium w/Partial BLS 4M Type IV Medium 4MB Type IV Medium Medium | 4MP Type IV Medium w/Partial BLS 5M Type V Medium 5S Type V Short | AA Adjustable Arm DA Direct Arm DL Direct Long Arm | 02 04 06 08 10 12 14 16 | | UL Universal 120-277V UH Universal 347-480V | BZ Bronze SV | 350 350mA 525 525mA 700 700mA - Available with 20-60 LEDs | - Can't exceed spe - Not available wit F Fuse - Compatible only Iphase to neutral - Consult factory if 240V or 480V [ph - Refer to PM_spe PML options - When code dictal H Hi/Low [Dual Circ - Refer to HL_spec - Sensor not inclur P Photocell | a spec sheet for details citied drive current h PML options with 120V, 277V or 347V J J using is required for 208V, ase to phasel casheet for availability with less fusing, use time delay fuse uit Input) sheet for details | - Intended for at 0° tilt at 0° tilt R NEMA® 3-Pin Receptacle - 3-pin receptacle - Not availat - Intended for with maxim - Requires p by others - Refer to Pt. availability 30K 300K Color - Minimum 8 | sting Height AL spec sheet for del or downlight applicat on Photocell stacle per ANSI C136 ble with SA mount or downlight applicat num 45° till hotocell or shorting AL spec sheet for with PML options Temperature |
| FLD- EDG | 25 25° Flood 40 40° Flood | 70 70° Flood SN Sign | N6 NEMA® 6 | AA Adjustable Arm SA Side Arm - Available with 20-60 LEDs | | | | | | PML options - Available with UL PML Programmable Mo 20-40' Mounting F - Refer to PML spe | voltage only ulti-Level, leight | 40K 4000K Color - Minimum 7 - Color temp 50K 5000K Color - Minimum 7 - Color temp TRL Amber Turtl - Available o - 600nm don - Additional be requirer | Temperature 10 CRI 10 C |

CREE
LIGHTING

THE EDGE® LED Area/Flood Luminaire

US: creelighting.com (800) 236-6800

Product Specifications

UL Rohs

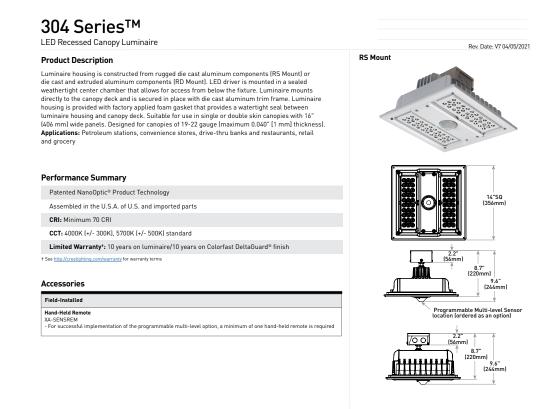
- CONSTRUCTION & MATERIALS Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks
- DA and DL mount utilizes convenient interlocking mounting method.
 Mounting is rugged die cast aluminum, mounts to 3-6" [76-152mm] square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 2" [51mm] centers AA and SA mounts are rugged die cast aluminum and mount to 2" [51mm] IP, 2.375" [60mm] 0.D. tenons
- Weight: See Dimensions and Weight Charts on pages 1 and 22
- ELECTRICAL SYSTEM
 Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load • Total Harmonic Distortion: < 20% at full load
- Integral 10kV/5kA surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current Maximium 10V Source Current: 20 LED (350mA): 10mA; 20 LED (525 & 700mA) and 40-80 LED: 0.15mA; 100-160 LED: 0.30mA
- REGULATORY & VOLUNTARY QUALIFICATIONS
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/ ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117 RoHS compliant. Consult factory for additional details
- Assembled in the USA by Cree Lighting from US and imported parts Meets Buy American requirements within ARRA • CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

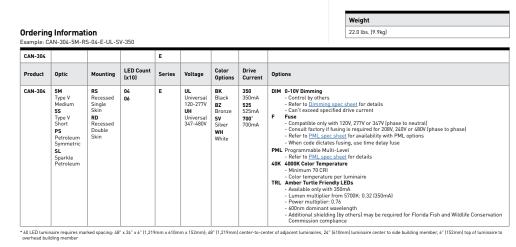
| LED | | System | Total (| Current I | A) | | | |
|----------------|-----------------|-------------------|---------|-----------|------|------|------|------|
| Count (x10) | CCT | Watts 120-480V | 120V | 208V | 240V | 277V | 347V | 480 |
| 350mA | | | | | | | | |
| | 30K/40K/50K/57K | 25 | 0.21 | 0.13 | 0.11 | 0.10 | 0.08 | 0.07 |
| 02 | TRL | 19 | 0.16 | 0.09 | 0.08 | 0.07 | 0.05 | 0.04 |
| | 30K/40K/50K/57K | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 |
| 04 | TRL | 35 | 0.29 | 0.17 | 0.15 | 0.13 | 0.10 | 0.07 |
| | 30K/40K/50K/57K | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 |
| 06 | TRL | 50 | 0.41 | 0.24 | 0.21 | 0.18 | 0.14 | 0.10 |
| | 30K/40K/50K/57K | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 |
| 08 | TRL | 68 | 0.57 | 0.33 | 0.28 | 0.25 | 0.20 | 0.14 |
| | 30K/40K/50K/57K | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 |
| 10 | TRL | 83 | 0.69 | 0.40 | 0.35 | 0.30 | 0.24 | 0.17 |
| | 30K/40K/50K/57K | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 |
| 12 | TRL | 99 | 0.82 | 0.48 | 0.41 | 0.36 | 0.28 | 0.21 |
| | 30K/40K/50K/57K | 158 | 1.32 | 0.77 | 0.68 | 0.62 | 0.47 | 0.35 |
| 14 | TRL | 120 | 1.00 | 0.58 | 0.50 | 0.43 | 0.34 | 0.25 |
| | 30K/40K/50K/57K | 179 | 1.49 | 0.87 | 0.77 | 0.68 | 0.53 | 0.39 |
| 16 | TRL | 136 | 1.13 | 0.65 | 0.57 | 0.49 | 0.39 | 0.28 |
| 525mA | | ' | | | | | | |
| 02 | 30K/40K/50K/57K | 37 | 0.30 | 0.19 | 0.17 | 0.16 | 0.12 | 0.10 |
| 04 | 30K/40K/50K/57K | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 30K/40K/50K/57K | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 08 | 30K/40K/50K/57K | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |
| 10 | 30K/40K/50K/57K | 171 | 1.43 | 0.83 | 0.74 | 0.66 | 0.50 | 0.38 |
| 12 | 30K/40K/50K/57K | 202 | 1.69 | 0.98 | 0.86 | 0.77 | 0.59 | 0.44 |
| 14 | 30K/40K/50K/57K | 232 | 1.94 | 1.12 | 0.98 | 0.87 | 0.68 | 0.50 |
| 16 | 30K/40K/50K/57K | 263 | 2.21 | 1.27 | 1.11 | 0.97 | 0.77 | 0.56 |
| 700mA | | | | | | | | |
| 02 | 30K/40K/50K/57K | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 |
| 04 | 30K/40K/50K/57K | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 |
| 06 | 30K/40K/50K/57K | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

| THEED | GE® Series Ambient | Adjusted Lu | ımen Mainte | nance ¹ | | |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------------------------|-----------------------------|
| Ambient | сст | Initial LMF | 25K hr Reported ² LMF | 50K hr Reported ² LMF | 75K hr Reported ² / Estimated ³ LMF | 100K hr Estimated LMF |
| 5°C | 30K/40K/50K/57K | 1.04 | 1.03 | 1.03 | 1.03 ² | 1.03 |
| (41°F) | TRL | 1.06 | 1.06 | 1.06 | 1.06 ³ | 1.06 |
| 10°C | 30K/40K/50K/57K | 1.03 | 1.02 | 1.02 | 1.022 | 1.02 |
| (50°F) | TRL | 1.04 | 1.04 | 1.04 | 1.043 | 1.04 |
| 15°C | 30K/40K/50K/57K | 1.02 | 1.01 | 1.01 | 1.01 ² | 1.01 |
| (59°F) | TRL | 1.03 | 1.03 | 1.03 | 1.033 | 1.03 |
| 20°C | 30K/40K/50K/57K | 1.01 | 0.99 | 0.99 | 0.992 | 0.99 |
| (68°F) | TRL | 1.01 | 1.01 | 1.01 | 1.01 ³ | 1.01 |
| 25°C | 30K/40K/50K/57K | 1.00 | 0.98 | 0.98 | 0.98 ² | 0.98 |
| (77°F) | TRL | 1.00 | 1.00 | 1.00 | 1.00 ³ | 1.00 |
| ackage and naintenance onditions. | intenance values at 25°C (77' in-situ luminaire testing. Lu factors. Please refer to the ice with IES TM-21, Reported | minaire ambient Temperature Zor | temperature fact le Reference Docu | ors (LATF) have ument for outde | e been applied to oor average nigh | all lumen ttime ambient |

CREE \$\DECEMBerrian{\text{cree}} \text{LIGHTING}^*

ADDITIONAL FIXTURE INFO







304 Series™ LED Recessed Canopy Luminaire

Product Specifications

CONSTRUCTION & MATERIALS

CREE \$\Dightarrow\$ LIGHTING

| CONSTRUCTION & MATERIALS | 1 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|
| RS Mount luminaire housing is constructed from rugged die cast aluminum and incorporates integral, high performance heatsink fins specifically designed for LED canopy applications | LED Count (x10) | System Watts 120-480 |
| RD Mount luminaire housing is constructed from rugged die cast aluminum and features high performance extruded aluminum heatsinks | | |
| specifically designed for LED canopy applications | 350mA | |
| LED driver is mounted in a sealed weathertight center chamber that allows for access from below the luminaire | 04 | 46 |
| Field adjustable drive current between 350mA, 525mA and 700mA on Non-IC rated luminaires | 06 | 69 |
| Luminaire housing provided with factory applied foam gasket and provides for a watertight seal between luminaire housing and canopy | 525mA | |
| deck | 04 | 71 |
| Mounts directly to the canopy deck and is secured in place with a die cast aluminum trim frame | 06 | 101 |
| RS mount includes integral junction box which allows ease of installation without need to open luminaire | 700mA | |
| Suitable for use in single (RS Mount) or double (RD Mount) skin canopies | 04 | 9,4 |

| | cast aluminum trim frame |
|---|----------------------------------------------------------------------------------------------------------|
| • | RS mount includes integral junction box which allows ease of installation without need to open luminaire |
| • | Suitable for use in single (RS Mount) or double (RD Mount) skin canopies with 16" (406mm) wide panels |
| • | Designed for canopies of 19-22 gauge (maximum 0.040" [1mm] thickness) |
| | |

 See 228 Series™ canopy luminaires for canopies using 12" (305mm) deck sections 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. Black, bronze, silver,

ELECTRICAL SYSTEM • Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers • Power Factor: > 0.9 at full load

- Total Harmonic Distortion: < 20% at full load Integral weathertight electrical box with terminal strips [12Ga-20Ga] for easy power hookup 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
- 10V Source Current: 0.15mA REGULATORY & VOLUNTARY QUALIFICATIONS
- Suitable for wet locations Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2 DLC qualified with select SKUs. Please refer to www.designlights.org for most current information

 The property of the propert
- RoHS Compliant. Consult factory for additional details Meets Buy American requirements within ARRA • CA RESIDENTS WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov

US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234

Enclosure meets IP66 requirements per IEC 60529

| | | Total Cu | rrent (A) | | | | |
|--------------------|-----------------------------|---------------|-------------------|--------------|---------------|----------|-------------|
| LED Count (x10) | System Watts 120-480V | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | |
| 04 | 46 | 0.39 | 0.24 | 0.22 | 0.21 | 0.15 | 0.12 |
| 06 | 69 | 0.57 | 0.34 | 0.30 | 0.27 | 0.21 | 0.16 |
| 525mA | | | | | | | |
| 04 | 71 | 0.59 | 0.35 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 700mA | | | | | | | |
| 04 | 94 | 0.79 | 0.46 | 0.40 | 0.36 | 0.28 | 0.21 |
| 06 | 135 | 1.14 | 0.65 | 0.57 | 0.50 | 0.40 | 0.29 |
| Electrical data | t 25°C (77°F). Actu | al wattage ma | y differ by +/- 1 | 0% when oper | ating between | 120-277V | or 347-480V |
| | | | | | | | |

| Ambient | сст | Initial LMF | 25K hr Reported ² LMF | 50K hr Reported ² LMF | 75K hr Estimated ³ LMF | 100K hr Estimated LMF |
|---------|-----------------|----------------|----------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------|
| 5°C | 30K/40K/50K/57K | 1.04 | 1.01 | 0.99 | 0.98 | 0.96 |
| (41°F) | TRL | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| 10°C | 30K/40K/50K/57K | 1.03 | 1.00 | 0.98 | 0.97 | 0.95 |
| (50°F) | TRL | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| 15°C | 30K/40K/50K/57K | 1.02 | 0.99 | 0.97 | 0.96 | 0.94 |
| (59°F) | TRL | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| 20°C | 30K/40K/50K/57K | 1.01 | 0.98 | 0.96 | 0.95 | 0.93 |
| (68°F) | TRL | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 25°C | 30K/40K/50K/57K | 1.00 | 0.97 | 0.95 | 0.94 | 0.92 |
| (77°F) | TRL | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

onditions.

In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are pt to &x the tested duration in the IES LM-80 report for the LED.

Estimated values are adjusted and propresent time durations that averaged the &x test duration of the LED.

CREE ♦ LIGHTING

WAC LIGHTING FIN - model: WP-LED1 55 Responsible Lighting® Endurance Wallpack Fixture: Project: Fixture Type: COVELINE WET 1.5 is a powerful and versatile interior / exterior cove luminaire **COVELINE WET 1.5** he COVELINE WET 1.5 comes in a 1 ft, 4 ft or 6 ft nominal lengths and 27K, 3K, 35K, 4K or 5K color temperatures, as well as static color choices. The housing Catalog Number is constructed of extruded aluminum with tooled end caps and is IP66 rated for interior & exterior use. Features IP68 line voltage Plug N Play connectors for easy installation. Power supply is integral, no remote driver required. Universal prientation fixture; up, down, horizontal or vertical positioning and 9 optical solutions. Flicker free dimmable to 5% full brightness ELV trailing edge dimming



| operating temperature | -13°F to |
|-----------------------|------------|
| junction temperature | 69°C @ |
| warranty | 5 year lii |
| | |
| ELECTRICAL | |
| input voltage | Universa |
| power supply | integral |
| certification | ETL / cE |
| standards | UL1598/ |
| | |

1750 Archibald Avenue • Ontario, CA 91760

44 Harbor Park Drive • Port Washington, NY 11050



| | s agreement to Solid State Luminaires terms and conditions. | | |
|--------------------------|---------------------------------------------------------------------------|---------------------|--|
| US Commercial Lighting | Manufacturer Since 1982 | Specification Sheet | |
| © Solid State Luminaires | 3609 swenson ave ● st. charles il ● 60174 │ fclighting.com │ 800.900.1730 | 20190 | |



| MOUNTING ACCESSORIES (ADBW2 Included with Fixture) (requirements vary for each fixture ordered - see mounting pages for details) | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|--|--|
| MOUNTING ACCESSORIES (ADBW2 Included with Fit | ixture) (requirements vary for each fixture ordered - see mounting pages for details) | | | | |

_____ CA2-12 Cantilever Arm - 12" _____ HLS Heavy Duty Landscape Spike

SC10W 10 ft. Starter Connection Cord ______ EC12W 12 in. Extension Cord ______ MC-10VELDIM 0-10V ELV Dim Module w/Interior Rated Enclosure (1 module per run)

Specification Sheet US Commercial Lighting Manufacturer Since 1982 © Solid State Luminaires 3609 swenson ave • st. charles il • 60174 | fclighting.com | 800.900.1730 20190

REDLEONARD ASSOCIATES 1340 Kemper Meadow Dr, Forest Park, OH 45240 513-574-9500 | redleonard.com

US: creelighting.com (800) 236-6800

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/□●\ SPECIFICATIONS Construction: Die-cast aluminum Power: Integral driver in luminaire. Universal voltage input (120V-277V) **Dimming:** 100% - 30% with 0 - 10V dimmer (120V - 277V) 100% - 15% with Electronic Low Voltage (ELV) dimmer (120V only) PRODUCT DESCRIPTION Finish: Architectural Bronze, Graphite, and White Die cast aluminum factory sealed housings with patent pending design for a water and dust proof IP66 rated outdoor luminaire Standards: IP66, Wet Location, ETL & cETL Listed **Total Harmonic Distortion:** 35% Operating Temperature: -40°C (-40°F) to 40°C (104°F) Factory-Sealed LED Light Engine PHOTOMETRY • 20° Forward Throw Illumination • Photo/Motion Sensor Compatible (Sold Separately) Built-in Level For Easy Adjustment · Suitable to install in all directions • Multi-Function Dimming: ELV (120V) or 0-10V Left Plane • 85 CRI • 100.000 hour rated life ORDER NUMBER Power Comparable Color Temp Delivered Lumens CBCP Finish WP-LED119 19W 39W HID 27W 70W HID

WP-LED135 35W 100W HID Example: WP-LED119-50-BZ ACCESSORIES

Phone (800) 526.2588 • Fax (800) 526.2585 WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. AUG 2017

_____ EC60W 60 in. Extension Cord

_____ CA2-18 Cantilever Arm - 18"

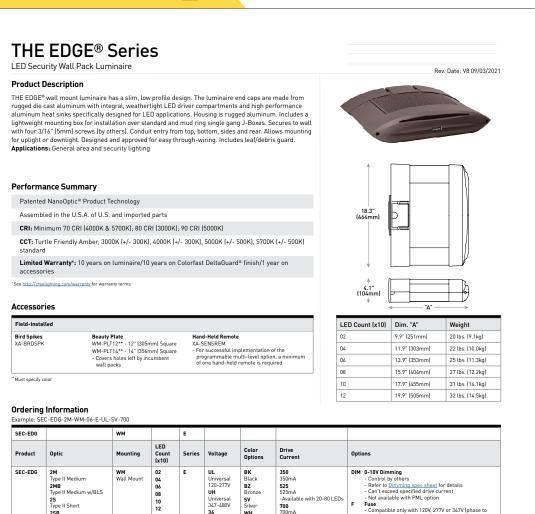
_____ EC24W 24 in. Extension Cord

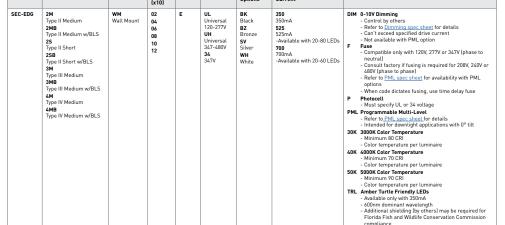
_____ TCAPW Terminator Cap

Due to continuous development and improvements, specifications are subject to change without notice. Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to Solid State Luminaires terms and conditions.



ADDITIONAL FIXTURE INFO





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THE EDGE® LED Security Wall Pack Luminaire

Product Specifications CONSTRUCTION & MATERIALS

 Slim, low profile design Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications

- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard 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 Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring Includes leaf/debris guard
- Includes lear/debris guard
 Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
 Weight: See Dimensions and Weight Chart on page 1
- ELECTRICAL SYSTEM
 Input Voltage: 120–277V or 347–480V, 50/60Hz, Class 1 drivers 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

 Maximum 10V Source Current; 20 LED (350mA); 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA
- REGULATORY & VOLUNTARY QUALIFICATIONS Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or PML

Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated

- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
 DLC qualified with select SKUS. Refer to https://www.designlights.org/search/for most current information
- Meets Buy American requirements within ARRA

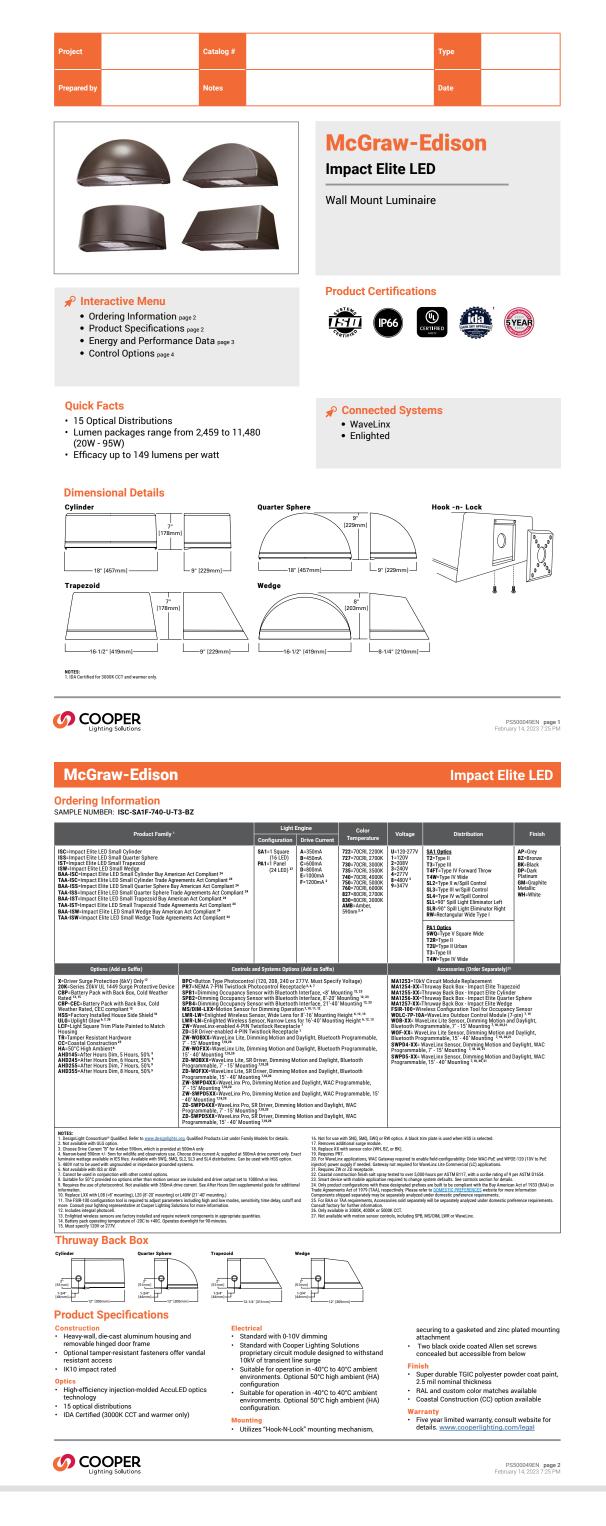
| LED | | System | Total 0 | Current I | A) | | | |
|----------------|-----------------|-------------------|---------|-----------|------|------|------|------|
| Count (x10) | CCT | Watts 120-480V | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | | |
| 02 | 30K/40K/50K/57K | 25 | 0.21 | 0.13 | 0.11 | 0.10 | 0.08 | 0.07 |
| | TRL | 19 | 0.16 | 0.09 | 0.08 | 0.07 | 0.05 | 0.04 |
| | 30K/40K/50K/57K | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 |
| 04 | TRL | 35 | 0.29 | 0.17 | 0.15 | 0.13 | 0.10 | 0.07 |
| | 30K/40K/50K/57K | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 |
| 06 | TRL | 50 | 0.41 | 0.24 | 0.21 | 0.18 | 0.14 | 0.10 |
| | 30K/40K/50K/57K | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 |
| 08 | TRL | 68 | 0.57 | 0.33 | 0.28 | 0.25 | 0.20 | 0.14 |
| 40 | 30K/40K/50K/57K | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 |
| 10 | TRL | 83 | 0.69 | 0.40 | 0.35 | 0.30 | 0.24 | 0.17 |
| 12 | 30K/40K/50K/57K | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 |
| | TRL | 99 | 0.82 | 0.48 | 0.41 | 0.36 | 0.28 | 0.21 |
| 525mA | | | | | | | | |
| 02 | 30K/40K/50K/57K | 37 | 0.30 | 0.19 | 0.17 | 0.16 | 0.12 | 0.10 |
| 04 | 30K/40K/50K/57K | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 30K/40K/50K/57K | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 08 | 30K/40K/50K/57K | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |
| 700mA | | | | | | | | |
| 02 | 30K/40K/50K/57K | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 |
| 04 | 30K/40K/50K/57K | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 |
| 06 | 30K/40K/50K/57K | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

| 30K/40K/50K/57K 50 0.41 0.25 0.22 0.20 0.15 0.12 30K/40K/50K/57K 93 0.78 0.46 0.40 0.36 0.27 0.20 30K/40K/50K/57K 134 1.14 0.65 0.57 0.50 0.39 0.29 cal data at 25°C (77°F). Actual wattage may differ by -/- 10% when operating between 120-277V or 347-480V |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30K/40K/50K/57K 93 0.78 0.46 0.40 0.36 0.27 0.20 |
| 30K/40K/50K/57K 93 0.78 0.46 0.40 0.36 0.27 0.20 |
| |
| 30K/40K/50K/57K 50 0.41 0.25 0.22 0.20 0.15 0.12 |
| |

| Ambient | ССТ | Initial LMF | 25K hr Reported ² LMF | 50K hr Reported ² LMF | 75K hr Reported ² / Estimated ³ LMF | 100K hr Estimated LMF |
|-------------|-----------------|----------------|----------------------------------------|----------------------------------------|--------------------------------------------------------------------|-----------------------------|
| 5°C (41°F) | 30K/40K/50K/57K | 1.04 | 1.03 | 1.03 | 1.032 | 1.03 |
| 10°C (50°F) | TRL | 1.06 | 1.06 | 1.06 | 1.063 | 1.06 |
| 10°C (50°F) | 30K/40K/50K/57K | 1.03 | 1.02 | 1.02 | 1.022 | 1.02 |
| | TRL | 1.04 | 1.04 | 1.04 | 1.043 | 1.04 |
| 1E°0 (E0°E) | 30K/40K/50K/57K | 1.02 | 1.01 | 1.01 | 1.012 | 1.01 |
| 15°C (59°F) | TRL | 1.03 | 1.03 | 1.03 | 1.033 | 1.03 |
| 20°C (68°F) | 30K/40K/50K/57K | 1.01 | 0.99 | 0.99 | 0.992 | 0.99 |
| | TRL | 1.01 | 1.01 | 1.01 | 1.013 | 1.01 |
| 25°C (77°F) | 30K/40K/50K/57K | 1.00 | 0.98 | 0.98 | 0.982 | 0.98 |
| | TRI | 1.00 | 1.00 | 1.00 | 1 00°3 | 1.00 |

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