

THE EDGE® Series

LED Parking Structure Luminaire

Rev. Date: V7 07/08/2020

Product Description

Slim, low profile design. Luminaire is constructed from rugged extruded aluminum, die cast aluminum and stamped metal components. LED driver is mounted in extruded aluminum fixture and sealed for weathertight operation. High performance aluminum heat sinks specifically designed for LED parking structure applications. Corrosion resistant wire guard provides anti-fouling protection from leaf/debris and animal nesting to assure cool LED operation. Direct mounting bracket designed to mount directly over existing single gang and octagonal junction boxes for direct mount. Pendant mount includes 5' (1.5m) cord out of the luminaire and is intended to be mounted by 3/4" (29mm) IP pendant (by others).

Applications: Parking structures and low-medium bay general lighting

Performance Summary

Patented NanoOptic® Product Technology

Assembled in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

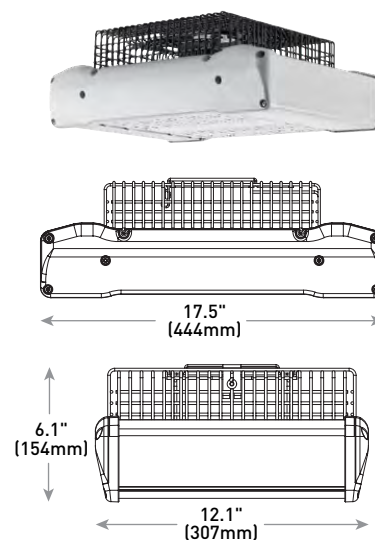
† See <http://creelighting.com/warranty> for warranty terms

Accessories

| Field-Installed | |
|----------------------------------|---|
| Pendant Mount Accessories | Pendant Fitting** |
| Bird Spikes | XA-PSFTG |
| XA-BRDSPK | Pendant Kit** |
| Bird Shroud | XA-PS12KIT - 12" (305mm) |
| XA-BRDGRD | XA-PS18KIT - 18" (457mm) |
| Leveler | XA-PS22KIT - 22" (559mm) |
| XA-PNDTLVL** | NOTE: Pendant height to bottom of luminaire; mounting accessories or |
| - For 0-13° sloped ceilings | surface boxes will add to overall height |

** Must specify color

DM Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 19.0 lbs. [8.6kg] |
| 06 | 20.5 lbs. [9.2kg] |
| 08 | 22.0 lbs. [9.9kg] |
| 10 | 27.0 lbs. [12.2kg] |

Ordering Information

Example: PKG-EDG-5M-DM-04-E-UL-SV-350

| PKG-EDG | | | | E | | | | |
|---------|--|-------------------------------|-------------------------|--------|-----------------------------|-----------------------------|---|--|
| Product | Optic | Mounting | LED Count (x10) | Series | Voltage | Color Options | Drive Current | Options |
| PKG-EDG | 5M Type V Medium 70 70° Flood | DM Direct PD Pendant | 04* 06* 08* 10 | E | UL Universal 120-277V | SV Silver WH White | 350 350mA 525 525mA 700 700mA - Available with 40-60 LEDs | 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire TRL Amber Turtle Friendly LEDs - Available only with 350mA - Lumen multiplier from 5700K: 0.32 (350mA) - Power multiplier: 0.76 - 600nm dominant wavelength - Additional shielding (by others) may be required for Florida Fish and Wildlife Conservation Commission compliance |

* Consists of multiple 20 LED lightbars, 40, 60, and 80 LED units use blanks as needed in place of populated light bars



US: creelighting.com (800) 236-6800

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

CREE **LIGHTING**

Product Specifications


CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire is constructed from rugged extruded aluminum, die cast aluminum, and stamped metal components
- LED driver is mounted in extruded aluminum fixture end and sealed for weathertight operation
- High performance heat sinks specifically designed for LED parking structure applications
- Corrosion resistant wire guard provides anti-fouling protection from leaf/debris and animal nesting to assure cool LED operation
- Direct mounting bracket designed to mount directly over existing single gang and octagonal junction boxes for direct mount
- Pendant mount includes 5' (1.5m) cord out of luminaire and is intended to be mounted by 3/4" (29mm) IP pendant (by others)
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver and white are available
- **Weight:** See Weight Chart on pages 1 and 4

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 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

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- 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
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

| Electrical Data* | | | | | |
|--------------------|-----------------------------|-------------------|------|------|------|
| LED Count (x10) | System Watts 120-277V | Total Current (A) | | | |
| | | 120V | 208V | 240V | 277V |
| 350mA | | | | | |
| 04 | 46 | 0.36 | 0.23 | 0.21 | 0.20 |
| 06 | 66 | 0.52 | 0.31 | 0.28 | 0.26 |
| 08 | 90 | 0.75 | 0.44 | 0.38 | 0.34 |
| 10 | 110 | 0.92 | 0.53 | 0.47 | 0.41 |
| 525mA | | | | | |
| 04 | 70 | 0.58 | 0.34 | 0.31 | 0.28 |
| 06 | 101 | 0.84 | 0.49 | 0.43 | 0.38 |
| 08 | 133 | 1.13 | 0.66 | 0.58 | 0.51 |
| 10 | 171 | 1.43 | 0.83 | 0.74 | 0.66 |
| 700mA | | | | | |
| 04 | 93 | 0.78 | 0.46 | 0.40 | 0.36 |
| 06 | 134 | 1.14 | 0.65 | 0.57 | 0.50 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%

| THE EDGE® Series Ambient Adjusted Lumen Maintenance ¹ | | | | | | |
|--|-----------------|-------------|----------------------------------|----------------------------------|-----------------------------------|------------------------------------|
| Ambient | CCT | Initial LMF | 25K hr Reported ² LMF | 50K hr Reported ² LMF | 75K hr Estimated ³ LMF | 100K hr Estimated ³ LMF |
| 5°C (41°F) | 30K/40K/50K/57K | 1.04 | 1.01 | 0.99 | 0.98 | 0.96 |
| | TRL | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| 10°C (50°F) | 30K/40K/50K/57K | 1.03 | 1.00 | 0.98 | 0.97 | 0.95 |
| | TRL | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| 15°C (59°F) | 30K/40K/50K/57K | 1.02 | 0.99 | 0.97 | 0.96 | 0.94 |
| | TRL | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| 20°C (68°F) | 30K/40K/50K/57K | 1.01 | 0.98 | 0.96 | 0.95 | 0.93 |
| | TRL | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 25°C (77°F) | 30K/40K/50K/57K | 1.00 | 0.97 | 0.95 | 0.94 | 0.92 |
| | TRL | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

¹ Lumen 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 [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

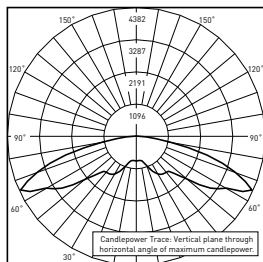
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

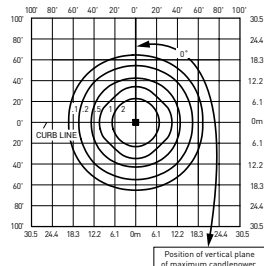
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/parking-structure/cree-edge-series-3>

5M



RESTL Test Report #: PL09285-001
ARE-EDG-5M-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,136



PKG-EDG-5M-**-06-E-UL-700-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 13,070
Initial FC at grade

Type V Medium Distribution

| LED Count (x10) | 4000K | | 5700K | |
|--------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 | Initial Delivered Lumens* | BUG Ratings** Per TM 15 11 |
| 350mA | | | | |
| 04 | 5,262 | B3 U0 G1 | 5,367 | B3 U0 G1 |
| 06 | 7,804 | B3 U0 G2 | 7,958 | B3 U0 G2 |
| 08 | 10,405 | B4 U0 G2 | 10,611 | B4 U0 G2 |
| 10 | 12,975 | B4 U0 G2 | 13,232 | B4 U0 G2 |
| 525mA | | | | |
| 04 | 7,468 | B3 U0 G2 | 7,625 | B3 U0 G2 |
| 06 | 11,074 | B4 U0 G2 | 11,306 | B4 U0 G2 |
| 08 | 14,766 | B4 U0 G2 | 15,075 | B4 U0 G3 |
| 10 | 18,413 | B4 U0 G3 | 18,799 | B4 U0 G3 |
| 700mA | | | | |
| 04 | 8,814 | B3 U0 G2 | 8,993 | B3 U0 G2 |
| 06 | 13,070 | B4 U0 G2 | 13,336 | B4 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

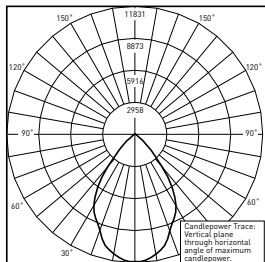
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

THE EDGE® LED Parking Structure Luminaire

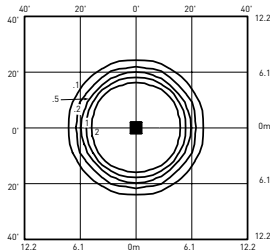
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/parking-structure/cree-edge-series-3>

70°



RESTL Test Report #: PL09832-001B
FLD-EDG-70-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,888

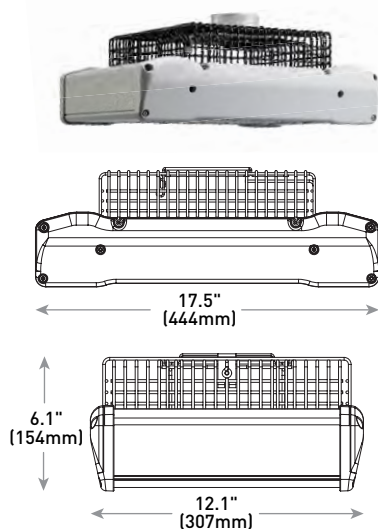


PKG-EDG-70-**-06-E-UL-700-40K
Mounting Height: 15' (4.6m) A.F.G.
Initial Delivered Lumens: 13,232
Initial FC at grade

| 70° Flood Distribution | | |
|------------------------|---------------------------|---------------------------|
| LED Count (x10) | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* |
| 350mA | | |
| 04 | 5,327 | 5,433 |
| 06 | 7,900 | 8,056 |
| 08 | 10,533 | 10,742 |
| 10 | 13,135 | 13,395 |
| 525mA | | |
| 04 | 7,560 | 7,719 |
| 06 | 11,211 | 11,446 |
| 08 | 14,948 | 15,261 |
| 10 | 18,640 | 19,031 |
| 700mA | | |
| 04 | 8,923 | 9,104 |
| 06 | 13,232 | 13,501 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

PD Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 19.0 lbs. (8.6kg) |
| 06 | 20.5 lbs. (9.2kg) |
| 08 | 22.0 lbs. (9.9kg) |
| 10 | 27.0 lbs. (12.2kg) |

© 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. THE EDGE®, NanoOptic® and Colorfast DeltaGuard® are registered trademarks of Cree Lighting, A company of IDEAL INDUSTRIES. Cree® and the Cree logo are registered trademarks of Cree, Inc. The UL logo is a registered trademark of UL LLC. The DLC QPL logo is a registered trademark of Efficiency Forward, Inc.

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

CREE  **LIGHTING**

A COMPANY OF IDEAL INDUSTRIES, INC.