

# Cree Edge™ Series

LED Parking Structure Luminaire

## 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

Made 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

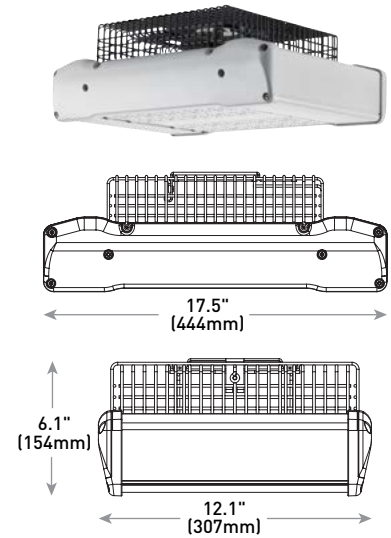
† See <http://lighting.cree.com/warranty> for warranty terms

## Accessories

Field-Installed	
<b>Pendant Mount Accessories</b>	<b>Pendant Fitting**</b>
<b>Bird Spikes</b> XA-BRDSPK	XA-PSFTG
<b>Bird Shroud</b> XA-BRDGRD	<b>Pendant Kit**</b>
<b>Leveler</b> XA-PNDTLVL** - For 0-13° sloped ceilings	XA-PS12KIT - 12" (305mm)
	XA-PS18KIT - 18" (457mm)
	XA-PS22KIT - 22" (559mm)
	<b>NOTE:</b> Pendant height to bottom of luminaire; mounting accessories or 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	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	ML Multi-Level - Refer to ML spec sheet for details - Intended for downlight applications at 0° tilt 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire

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



US: [lighting.cree.com](http://lighting.cree.com)

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Rev. Date: V5 12/07/2017

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## 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
- 10kV surge suppression 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 standards for conducted and radiated emissions

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%

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) <sup>1</sup>					
Ambient	Initial LMF	25K hr Projected <sup>2</sup> LMF	50K hr Projected <sup>2</sup> LMF	75K hr Calculated <sup>3</sup> LMF	100K hr Calculated <sup>3</sup> LMF
5°C (41°F)	1.04	1.01	0.99	0.98	0.96
10°C (50°F)	1.03	1.00	0.98	0.97	0.95
15°C (59°F)	1.02	0.99	0.97	0.96	0.94
20°C (68°F)	1.01	0.98	0.96	0.95	0.93
25°C (77°F)	1.00	0.97	0.95	0.94	0.92

<sup>1</sup> Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

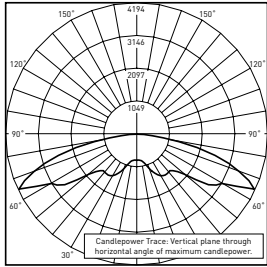
<sup>2</sup> In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

<sup>3</sup> In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

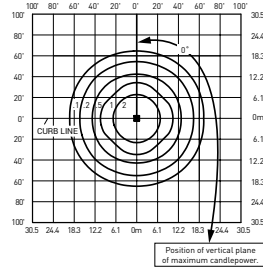
**Photometry**

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

**5M**



ITL Test Report #: 79229  
 PKG-EDG-5M-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 12,906



PKG-EDG-5M-\*\*-06-E-UL-700-40K  
 Mounting Height: 10' (3.0m) A.F.G.  
 Initial Delivered Lumens: 11,405  
 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
<b>350mA</b>				
04	4,498	B3 U0 G2	4,671	B3 U0 G2
06	6,670	B3 U0 G2	6,926	B3 U0 G2
08	8,893	B3 U0 G3	9,235	B3 U0 G3
10	11,089	B4 U0 G3	11,516	B4 U0 G3
<b>525mA</b>				
04	6,297	B3 U0 G2	6,539	B3 U0 G2
06	9,338	B3 U0 G3	9,697	B3 U0 G3
08	12,450	B4 U0 G3	12,929	B4 U0 G3
10	15,525	B4 U0 G3	16,122	B4 U0 G3
<b>700mA</b>				
04	7,691	B3 U0 G2	7,987	B3 U0 G2
06	11,405	B4 U0 G3	11,844	B4 U0 G3

\* 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>

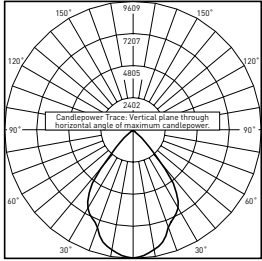


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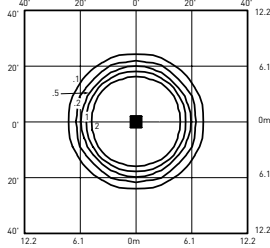
## Photometry

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70°



ITL Test Report #: 79571  
CAN-EDG-70-\*\*-06-E-UL-700-40K  
Initial Delivered Lumens: 12,631

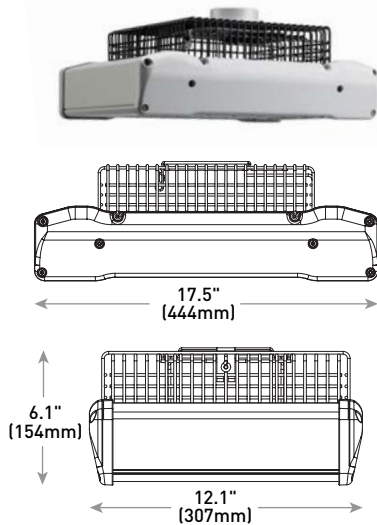


PKG-EDG-70-\*\*-06-E-UL-700-40K  
Mounting Height: 15' (4.6m) A.F.G.  
Initial Delivered Lumens: 11,546  
Initial FC at grade

70° Flood Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA		
04	4,553	4,728
06	6,752	7,012
08	9,003	9,349
10	11,226	11,658
525mA		
04	6,375	6,620
06	9,453	9,816
08	12,604	13,088
10	15,717	16,321
700mA		
04	7,786	8,086
06	11,546	11,990

\* 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)

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