

# Cree Edge™ Series

LED Interior Round Luminaire

## Product Description

Slim, low profile design. Luminaire housing is rugged cast aluminum with integral, LED driver compartment, spun aluminum vented cover and high performance aluminum heat sinks. Luminaire mounts using hook and cord or minimum 6" (152mm) 3/8" IP (10mm) pendant (by others).

**Applications:** Retail and industrial high-bay or low-bay, airport hangars, and gymnasiums

## 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

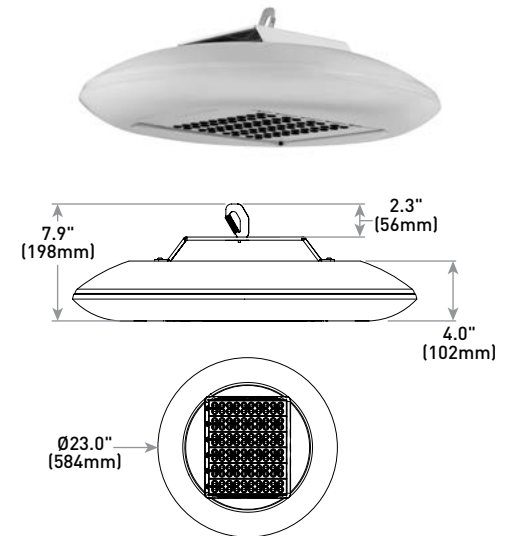
**Limited Warranty\*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

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

## Accessories

Field-Installed	
<b>Pendant Mount Accessories</b>	
<b>3/8" (10mm) IP Pendant – 18" (457mm)</b>	<b>3/8" (10mm) IP Pendant – 24" (610mm)</b>
KSKP018SW - Silver	<b>One Circuit</b>
KSKP018BW - Black	KSKP024SW - Silver
KSKP018ZW - Bronze	KSKP024BW - Black
KSKP018WW - White	KSKP024ZW - Bronze
	KSKP024WW - White
	<b>Two Circuit</b>
	KSKP024SD - Silver
	KSKP024BD - Black
	KSKP024ZD - Bronze
	KSKP024WD - White
<b>NOTE:</b> Alternative pendant lengths are available in 1" (25mm) increments; consult factory	

## HC Mount



LED Count (x10)	Weight
04	31.0 lbs. (14.0kg)
06	32.0 lbs. (14.5kg)
08	34.0 lbs. (15.4kg)
10	37.5 lbs. (17.0kg)
12	39.5 lbs. (17.9kg)

## Ordering Information

Example: INT-EDR-PS-HC-04-E-UL-SV-350

INT-EDR	Product	Optic	Mounting	LED Count (x10)	E	Series	Voltage	Color Options	Drive Current	Options
INT-EDR	PS	Petroleum Symmetric	HC	04	E	UL	350	BK	350mA	<b>40K 4000K Color Temperature</b> - Minimum 70 CRI - Color temperature per luminaire <b>DIM 0-10V Dimming</b> - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current <b>HL Hi/Low (Dual Circuit Input)</b> - Refer to HL spec sheet for details - Sensor not included
	40	40° Flood	PD	06		Universal	350mA	Black	350mA	
				08		120-277V	525	BZ	525mA	
				10		Universal	700	Bronze	700mA	
				12		347-480V	700mA	SV	700mA	
							- Available with 40-60 LEDs	SV	- Available with 40-60 LEDs	
								WH		
								White		



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

T (800) 236-6800 F (262) 504-5415

Rev. Date: V3 12/08/2017

Canada: [www.cree.com/canada](http://www.cree.com/canada)



T (800) 473-1234 F (800) 890-7507

**Product Specifications**

**CONSTRUCTION & MATERIALS**

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, LED driver compartment, spun aluminum cover and high performance heat sinks
- Hook and cord mount provided with spring lock hook for mounting
- Pendant mount is intended to be mounted by minimum 6" (152mm) 3/8" 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, bronze, black and white are available
- **Weight:** See weight chart on pages 1 and 2

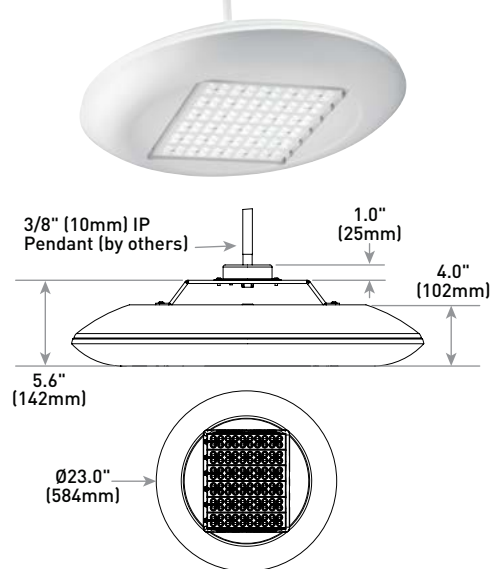
**ELECTRICAL SYSTEM**

- **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
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **Maximum Source Current:** 40-80 LED: 0.15mA; 100-120 LED: 0.30mA

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15 standards 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

**PD Mount**



LED Count (x10)	Weight
04	33.0 lbs. (14.9kg)
06	44.0 lbs. (15.4kg)
08	45.5 lbs. (16.1kg)
10	42.5 lbs. (19.2kg)
12	43.5 lbs. (19.7kg)

Electrical Data*							
LED Count (x10)	System Watts 120-480V	Total Current					
		120V	208V	240V	277V	347V	480V
350mA							
04	46	0.36	0.23	0.21	0.20	0.15	0.12
06	66	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.28
525mA							
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
10	171	1.43	0.83	0.74	0.66	0.50	0.38
12	202	1.69	0.98	0.86	0.77	0.59	0.44
700mA							
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

\* Electrical data at 25°C (77°F)

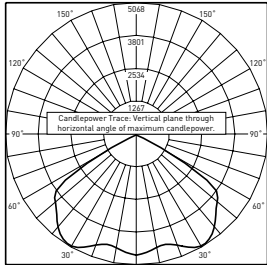
Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) <sup>1</sup>					
Ambient	Initial LMF	25K hr Projected <sup>2</sup> LMF	50K hr Projected <sup>2</sup> LMF	75K hr Calculated <sup>3</sup> LMF	100K hr Calculated <sup>3</sup> LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

<sup>1</sup> Lumen maintenance values at 25°C (77°F) 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: [www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool](http://www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool)

**PS**



RESTL Test Report #: PL03825-001  
INT-EDR-PS-\*\*-06-E-UL-700-40K  
Initial Delivered Lumens: 12,642

Coefficients Of Utilization – Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	111	108	104	101
2	103	96	91	86
3	95	86	79	73
4	87	77	69	63
5	81	69	61	55
6	74	62	54	48
7	69	56	48	43
8	64	51	43	38
9	60	47	39	34
10	56	43	36	31

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)				
Vertical Angle	Horizontal Angle			
	0°	45°	90°	
45°	145,125	200,073	148,703	
55°	131,169	214,519	126,947	
65°	6,265	23,259	6,024	
75°	2,314	1,674	2,216	
85°	731	622	877	

Petroleum Symmetric Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA		
04	5,109	5,305
06	7,575	7,867
08	10,101	10,489
10	12,595	13,080
12	15,115	15,696
525mA		
04	7,152	7,427
06	10,606	11,013
08	14,141	14,685
10	17,634	18,312
12	21,160	21,974
700mA		
04	8,736	9,072
06	12,954	13,452

\* Initial delivered lumens at 25°C (77°F)

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	3,951	N/A	31.2%
0-40	6,870	N/A	54.3%
0-60	12,262	N/A	97.0%
0-90	12,645	N/A	100%
0-180	12,645	N/A	100%

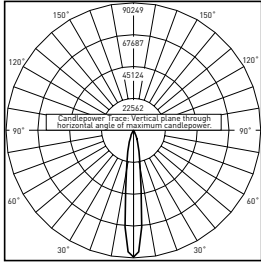


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## Photometry

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40°



RESTL Test Report #: PL02859-001  
INT-EDR-40-\*\*-06-E-UL-700-40K  
Initial Delivered Lumens: 13,035

Coefficients Of Utilization – Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	115	113	111	109
2	111	107	104	101
3	107	102	98	95
4	103	98	94	91
5	100	94	90	87
6	97	91	86	83
7	94	88	83	80
8	92	85	81	78
9	89	82	78	75
10	87	80	76	73

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m <sup>2</sup> )			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	17,751	18,817	17,870
55°	9,735	9,426	9,920
65°	6,134	4,130	5,120
75°	2,949	2,949	2,949
85°	2,475	2,475	2,475

40° Flood Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA		
04	4,998	5,190
06	7,411	7,696
08	9,881	10,261
10	12,322	12,796
12	14,786	15,355
525mA		
04	6,997	7,266
06	10,375	10,774
08	13,833	14,365
10	17,250	17,914
12	20,700	21,496
700mA		
04	8,546	8,874
06	12,672	13,160

\* Initial delivered lumens at 25°C (77°F)

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	1,1614	N/A	89.7%
0-40	12,388	N/A	95.6%
0-60	12,851	N/A	99.2%
0-90	12,954	N/A	100%
0-180	12,954	N/A	100%