

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

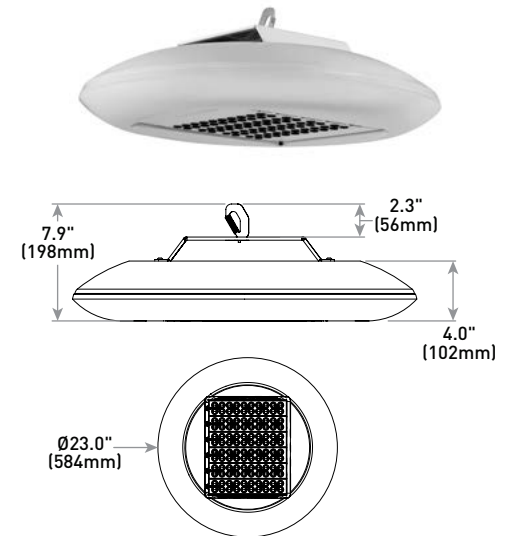
Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

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

Accessories

Field-Installed	
Pendant Mount Accessories 3/8" (10mm) IP Pendant – 18" (457mm) KSKP018SW - Silver KSKP018BW - Black KSKP018ZW - Bronze KSKP018WW - White	3/8" (10mm) IP Pendant – 24" (610mm) One Circuit KSKP024SW - Silver KSKP024BW - Black KSKP024ZW - Bronze KSKP024WW - White Two Circuit KSKP024SD - Silver KSKP024BD - Black KSKP024ZD - Bronze KSKP024WD - White
NOTE: 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

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



US: lighting.cree.com

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

Rev. Date: V3 10/04/2018

Canada: 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

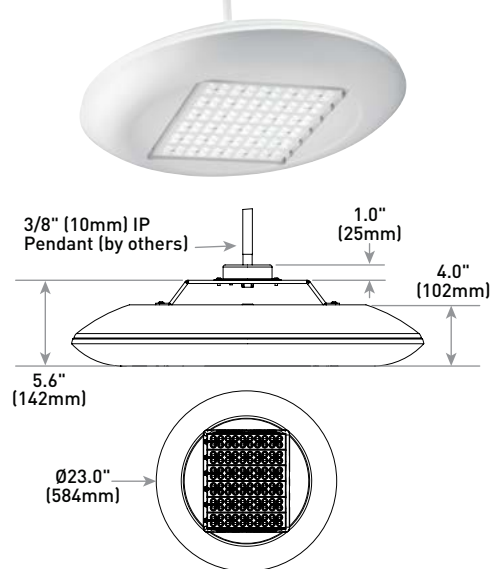
ELECTRICAL SYSTEM

- **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
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

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)

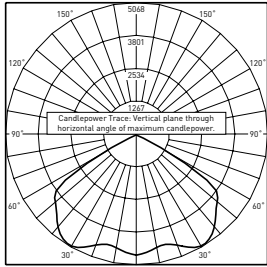
Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) ¹					
Ambient	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)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

¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
² 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)
³ 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

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%

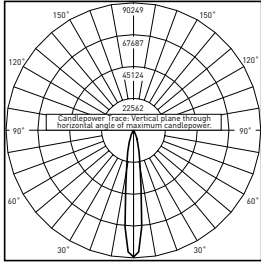


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Photometry

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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 ²)			
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%