

# THE EDGE® Series

LED Interior Round Luminaire

Rev. Date: V5 09/07/2021

## 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

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

**CRI:** Minimum 70 CRI (4000K & 5700K), 80 CRI (3000K), 90 CRI (5000K)

**CCT:** 3000K (+/- 300K), 4000K (+/- 300K), 5000K (+/- 500K), 5700K (+/- 500K) standard

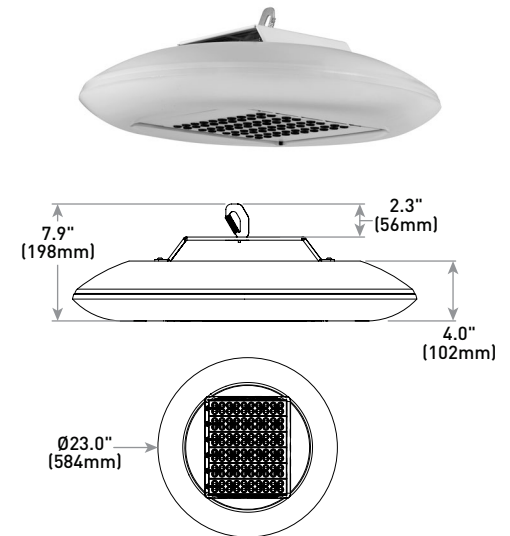
**Limited Warranty\*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish /1 year on accessories

\*See <http://creelighting.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

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 WH White	350 350mA 525 525mA 700 700mA - Available with 40-60 LEDs	<b>DIM 0-10V Dimming</b> - Control by others - Refer to <a href="#">Dimming spec sheet</a> 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 <b>30K 3000K Color Temperature</b> - Minimum 80 CRI - Color temperature per luminaire <b>40K 4000K Color Temperature</b> - Minimum 70 CRI - Color temperature per luminaire <b>50K 5000K Color Temperature</b> - Minimum 90 CRI - Color temperature per luminaire



US: [creelighting.com](http://creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](http://creelighting-canada.com) (800) 473-1234

**CREE** ⇄ LIGHTING®

THE EDGE® LED Interior Round Luminaire

**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

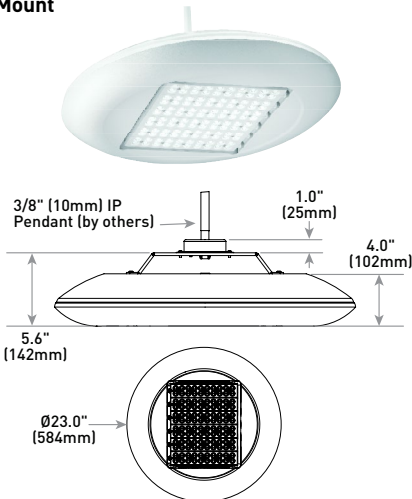
**ELECTRICAL SYSTEM**

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **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:** 40-80 LED: 0.15mA; 100-120 LED: 0.30mA

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15 limits 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](http://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 (A)					
		120V	208V	240V	277V	347V	480V
<b>350mA</b>							
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
<b>525mA</b>							
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
<b>700mA</b>							
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). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

THE EDGE® Series Ambient Adjusted Lumen Maintenance <sup>1</sup>						
Ambient	CCT	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Reported <sup>2</sup> LMF	100K hr Estimated <sup>3</sup> LMF
5°C (41°F)	30K/40K/50K/57K	1.04	1.03	1.03	1.03	1.03
10°C (50°F)	30K/40K/50K/57K	1.03	1.02	1.02	1.02	1.02
15°C (59°F)	30K/40K/50K/57K	1.02	1.01	1.01	1.01	1.01
20°C (68°F)	30K/40K/50K/57K	1.01	0.99	0.99	0.99	0.99
25°C (77°F)	30K/40K/50K/57K	1.00	0.98	0.98	0.98	0.98

<sup>1</sup> 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.

<sup>2</sup> 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.

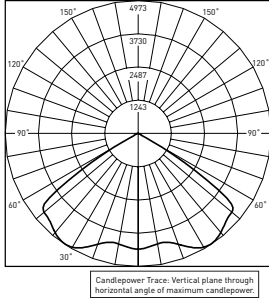
<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

THE EDGE® LED Interior Round Luminaire

**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <https://www.creelighting.com/products/indoor/high-bay-low-bay/the-edge-series>

**PS**



RESTL Test Report #: PL12774-001A  
CAN-EDG-PS-\*\*-D6-E-UL-525-40K  
Initial Delivered Lumens: 12,142

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	74
4	88	77	70	64
5	81	69	61	55
6	75	63	54	49
7	69	57	49	43
8	64	52	44	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°	60,807	84,591	63,688
55°	44,127	81,999	41,703
65°	4,233	4,690	3,761
75°	3,093	2,757	3,118
85°	792	646	704

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	3,752	N/A	30.9%
0-40	6,620	N/A	54.5%
0-60	11,884	N/A	97.9%
0-90	12,142	N/A	100%
0-180	12,142	N/A	100%

Petroleum Symmetric Distribution				
LED Count (x10)	3000K	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
<b>350mA</b>				
04	4,950	5,977	4,544	6,096
06	7,341	8,863	6,738	9,039
08	9,788	11,818	8,984	12,052
10	12,205	14,737	11,203	15,029
12	14,646	17,684	13,444	18,035
<b>525mA</b>				
04	7,033	8,482	6,456	8,660
06	10,429	12,578	9,573	12,842
08	13,905	16,771	12,764	17,122
10	17,340	20,913	15,917	21,352
12	20,808	25,096	19,100	25,622
<b>700mA</b>				
04	8,296	10,011	7,615	10,215
06	12,301	14,845	11,292	15,147

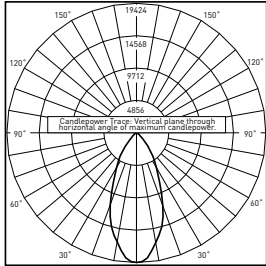
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

THE EDGE® LED Interior Round Luminaire

**Photometry**

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40°



RESTL Test Report #: PL09832-002B  
 FLD-EDG-40-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 13,808

Coefficients Of Utilization – Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	113	111	108	106
2	108	103	99	95
3	102	96	90	86
4	97	89	84	79
5	92	83	78	73
6	87	78	72	68
7	83	74	68	63
8	79	70	64	59
9	75	66	60	56
10	72	62	57	53

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m2)			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	57,999	57,999	57,999
55°	22,400	22,400	22,400
65°	10,082	10,082	10,082
75°	2,891	2,891	2,891
85°	1,940	1,940	1,940

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	9,545	N/A	69.0%
0-40	12,171	N/A	88.0%
0-60	13,652	N/A	98.7%
0-90	13,834	N/A	100%
0-180	13,834	N/A	100%

40° Flood Distribution				
LED Count (x10)	3000K	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
<b>350mA</b>				
04	4,843	5,847	4,445	5,963
06	7,181	8,671	6,592	8,842
08	9,575	11,561	8,789	11,790
10	11,940	14,416	10,960	14,702
12	14,328	17,300	13,152	17,642
<b>525mA</b>				
04	6,880	8,298	6,315	8,472
06	10,202	12,305	9,365	12,563
08	13,603	16,406	12,486	16,750
10	16,963	20,459	15,571	20,887
12	20,356	24,551	18,685	25,065
<b>700mA</b>				
04	8,115	9,793	7,449	9,993
06	12,034	14,523	11,046	14,818

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