

8"

Architectural LED Cylinder

EPC-8-HL-SM

Cylinder Series



Application

A complete family of cylinders for downlight, wallwashers, double wallwashers, and corner wallwashers in multiple, mounting options, beam spreads and apertures designed for commercial, civic, museums, corporate, hospitality, academic, retail, medical, and houses of worship.

Features

- Exceptional Optical Quality: Up to 98 CRI, 1×2 Step MacAdam Ellipse.
- Shipped standard with a Solite Beam Smoother lens that removes striations from the light source.
- Available with a multitude of dimming protocols and control offerings.

Nominal Lumens	Delivered Lumens	Wattage
8000L	8338	77
10000L	10456	98
16000L	16529	158
20000L	20323	199
22000L	22689	226
24000L	24030	243

Based on 4000K, 90+ CRI with semi-specular chrome reflector. Actual wattage may vary +/-5%

Lumens	High Performance: 8000, 10000
CCT & Dynamic Platforms	High Performance: 22K, 27K, 30K, 35K, 40K, 50K
CRI	High Performance: 90+, 98+
Color Quality	2 Step MacAdam Ellipse
Distributions	ND (Narrow 30°), MD (Medium 36°), WD (Wide 60°), VWD (Very Wide 70°)
Trim Options	Downlight
Reflector Colors	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), W (White), MB (Black), BZ (Bronze)
Flange Colors	Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK (Black), BZ (Bronze)
Dimming	DIM10
Emergency	EMG-LED-10W, EMG-LED-20W, INTG-EMG-LED-10W, INTG-EMG-LED-20W, EMG-LED-G2-10W-SDT
Lifetime	L70 at 102,000 Hours
Photometric Tests	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



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PART NUMBER: EPC-8-HL-SM-8000L-22K-90-ND-DIM10-120V-WH

Series	Lumens	CCT	CRI	Optics	Driver	Voltage	Emergency	Finish
EPC-8-HL-SM	8000L 10000L	22K 27K 30K 35K 40K 50K ¹	90+ 98+ ²	ND Narrow (30°) MD Medium (36°) WD Wide (60°) VWD Very Wide (70°)	DIM10	120V 277V 347V	- EMG-LED-10W EMG-LED-20W INTG-EMG-LED-10W INTG-EMG-LED-20W EMG-LED-G2-10W-SDT	WH BK BZ SI CUS

¹ 50K series are available with 85+ CRI only ² 98+ CRI is available in 27K, 30K and 40K only

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ORDER GUIDE

REFLECTOR TYPE	MOUNTING	COLOR				
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Open Downlight EPD-8-801 	Flanged 	ANODIZED FLANGED				
		Clear White CL-WH 	Clear Bronze CL-BZ 	Black White BK-WH 	Satin Haze SHZ-SHZ 	Wheat WT-WT 
		Clear Semi-Spec CL-SCH 	Satin Haze White SHZ-WH 	Black BK-BK 	Satin Haze Black SHZ-BK 	
		Clear Black CL-BK 	White WH-WH 	Bronze BZ-BZ 	Wheat White WT-WH 	



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Modifications Available

Consult factory for modification requests; orders may require shop drawing approval.

Downlight

Our signature anodized reflector, spun to a reverse parabola design, achieves a 50° shielding angle and a 40° cut-off, which eliminates inter-reflections, and enhances low aperture brightness

Wall Wash

The optical assembly delivers uniform ceiling-to-floor wallwashing without creating any visible scallops. The optical assembly is specially designed to extend a beam in two directions for a uniform floor-to-ceiling and side-to-side wash of light.

Double Wall Wash

Used in a corridor to wash both walls, providing both horizontal and vertical illumination that fully illuminates corridors and hallways.

Corner Wall Wash

Replacing the effect that two luminaires provide, a corner wallwasher kicks light across corners that run perpendicular to one another, ultimately providing a 210° wash of light fully covering conjoined walls and surfaces.

Optical Performance and Trim

Spun aluminum anodized single piece reflector. The optical system consists of 1) an upper reflector for a precise beam spread; 2) a solite soft focus lens to diffuse the light source for smooth, striation-free distribution; 3) and a patented lens to control the beam angle and provide a 40° visual cutoff. Available in a variety of beam angles. Integral heatsink comes preinstalled on the housing for maximum heat dissipation and locks together with the reflector to prevent zero light leakage for above the ceiling.

Fully Servicable - Easy Installation & Upgrading

Ceiling mount bracket provided for direct installation with 3-1/4" to 4" octagonal and square junction box.

Housing / Mounting

Die-formed constructed cylinder body for maximum heat dissipation and rust protection. Cylinder is available in a variety of post painted colors and custom RAL colors.

Emergency Options/Controls

The Emergency battery pack needs to be remote mounted in a junction above the ceiling. A custom made canopy can also be provided upon request when there is no ceiling access and the emergency needs to be mounted below the ceiling line. The test switch for the emergency battery is mounted remotely (EMG-LED option) on the ceiling. Self Diagnostic emergency option available (EMG-SDT) Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L with EMG-LED-20W option in emergency mode. Other accessories and controls systems include modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

Drivers

120/277V 50/60Hz; 347V available. THD < 20%; power factor > .09. Thermally protected. Removal of the reflector provides complete accessibility to the junction box, driver and internal components from above and below the ceiling through the aperture.

Dimming & Driver Information

DIM10 - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard

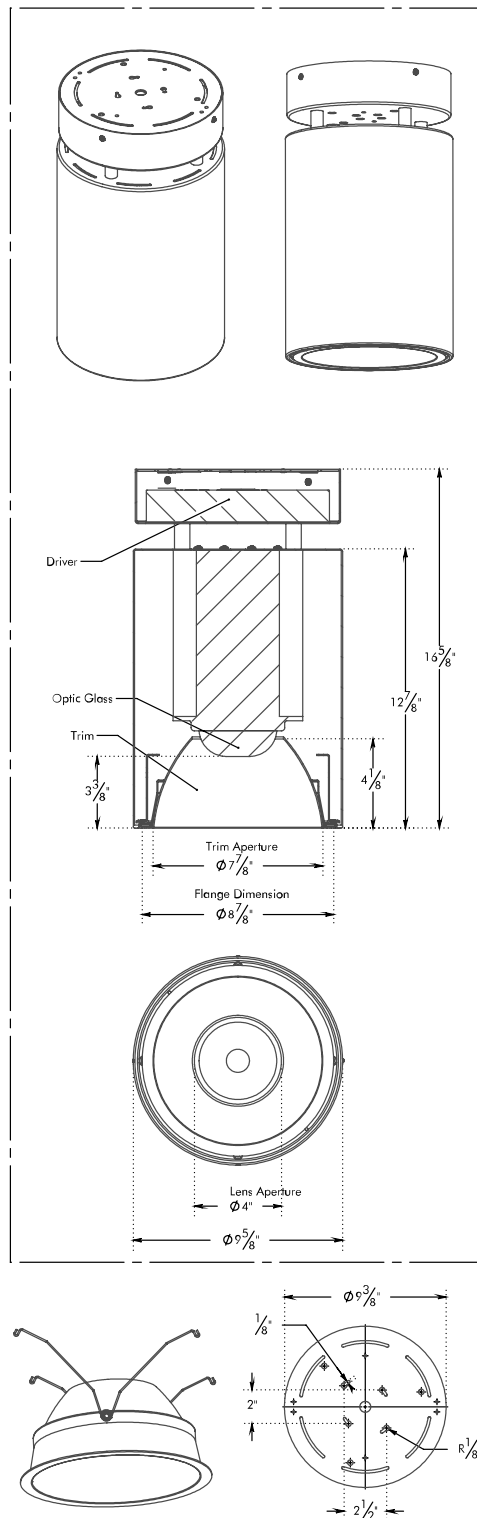


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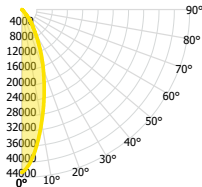
Cylinder Series

EPC-8-HL-SM-20000L-40K-90-ND-DIM10-120V-EPC-8-851-CL-WH

TEST NO.: EL07012201

INPUT WATTS: 200.7 LUMENS: 20040 EFFICAC Y: 100 BEAM ANGLE: 34 SPACING CRITERIA: 0.51 x 0.51

CANDELA DISTRIBUTION



CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	1188.6 fc	3.6 ft	3.6 ft
8.0 ft	668.6 fc	4.8 ft	4.8 ft
10.0 ft	427.9 fc	6.0 ft	6.0 ft
12.0 ft	297.1 fc	7.2 ft	7.2 ft
14.0 ft	218.3 fc	8.4 ft	8.4 ft
16.0 ft	167.1 fc	9.6 ft	9.6 ft
18.0 ft	132.1 fc	10.8 ft	10.8 ft
20.0 ft	107.0 fc	12.1 ft	12.0 ft

CANDELA TABLE

0°	90°
0° 42788	42788
10° 30119	30069
20° 16604	16669
30° 7219	7813
40° 2554	2772
50° 242	308
60° 38	53
70° 9	12
80° 2	2
90° 0	0

LUMINANCE (cd/sq.m)

0.00°	90.00°
0.00° 3665070	3665070
45.00° 84152	114885
55.00° 16243	18267
65.00° 4629	7001
75.00° 1072	1397
85.00° 373	727

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	3526
10° - 20°	6661
20° - 30°	5698
30° - 40°	3079
40° - 50°	891
50° - 60°	145
60° - 70°	25
70° - 80°	5
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	10187	51%
0° - 30°	15885	79%
0° - 40°	18964	95%
0° - 60°	20000	100%
0° - 80°	20030	100%
0° - 90°	20031	100%

INDOOR COEFFICIENTS OF UTILIZATION

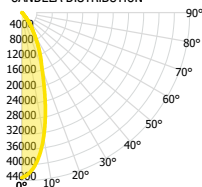
ρ _f	ρ _c	ρ _w	70%	80%	50%	30%	10%	70%	80%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	102	100	0%
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94	0%
2	109	104	101	98	107	103	99	97	100	97	94	92	94	92	94	92	91	89	0%
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	0%
4	99	93	88	84	98	92	87	83	89	85	82	87	84	81	86	83	80	79	0%
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75	0%
6	91	83	78	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71	0%
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67	0%
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64	0%
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61	0%
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58	0%

EPC-8-HL-SM-20000L-40K-90-MD-DIM10-120V-EPC-8-851-CL-WH

TEST NO.: EL07012201

INPUT WATTS: 199.8 LUMENS: 20313 EFFICAC Y: 102 BEAM ANGLE: 35 SPACING CRITERIA: 0.53

CANDELA DISTRIBUTION



CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	1204.2 fc	3.7 ft	3.7 ft
8.0 ft	677.4 fc	5.0 ft	5.0 ft
10.0 ft	433.5 fc	6.2 ft	6.2 ft
12.0 ft	301.1 fc	7.5 ft	7.5 ft
14.0 ft	221.2 fc	8.7 ft	8.7 ft
16.0 ft	169.3 fc	10.0 ft	10.0 ft
18.0 ft	133.8 fc	11.2 ft	11.2 ft
20.0 ft	108.4 fc	12.5 ft	12.5 ft

CANDELA TABLE

0°	90°
0° 43353	43353
10° 33194	34291
20° 15623	16870
30° 6812	8122
40° 2123	2710
50° 220	291
60° 45	43
70° 12	7
80° 2	2
90° 0	0

LUMINANCE (cd/sq.m)

0.00°	90.00°
0.00° 3713442	3713442
45.00° 77937	114564
55.00° 14965	16814
65.00° 5026	3533
75.00° 1268	1059
85.00° 619	619

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	3762
10° - 20°	7146
20° - 30°	5521
30° - 40°	2942
40° - 50°	780
50° - 60°	127
60° - 70°	21
70° - 80°	4
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	10908	54%
0° - 30°	16428	81%
0° - 40°	19370	95%
0° - 60°	20278	100%
0° - 80°	20303	100%
0° - 90°	20304	100%

INDOOR COEFFICIENTS OF UTILIZATION

ρ _f	ρ _c	ρ _w	70%	80%	50%	30%	10%	70%	80%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	102	100	0%
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	0%
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	0%
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84	0%
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80	0%
5	96	88	83	79	94	87	83	79	86	81	78	84	80	78	83	79	77	76	0%
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72	0%
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68	0%
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65	0%
9	81	72	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62	0%
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59	0%



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EPC-8-HL-SM-20000L-40K-90-WD-DIM10-120V-EPC-8-851-CL-WH

TEST NO.: EL07012201

INPUT WATTS: 200.6

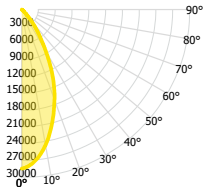
LUMENS: 20140

EFFICAC Y: 100

BEAM ANGLE: 50

SPACING CRITERIA: 0.73

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	28484	28484
10°	24609	25400
20°	17175	18023
30°	8627	9701
40°	2763	3139
50°	275	355
60°	56	64
70°	7	12
80°	2	2
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	2439872	2439872
45.00°	111151	125206
55.00°	20292	21437
65.00°	6155	7313
75.00°	1344	1555
85.00°	462	747

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	2585
10° - 20°	6129
20° - 30°	6442
30° - 40°	3747
40° - 50°	1013
50° - 60°	177
60° - 70°	31
70° - 80°	6
80° - 90°	1

ZONAL LUMEN SUMMATION

ZONE	LUMENS	% LUMINAIRE
0° - 20°	8714	43%
0° - 30°	15156	75%
0° - 40°	18903	94%
0° - 60°	20093	100%
0° - 80°	20129	100%
0° - 90°	20131	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	791.2 fc	5.6 ft	5.6 ft
8.0 ft	445.1 fc	7.4 ft	7.5 ft
10.0 ft	284.8 fc	9.3 ft	9.4 ft
12.0 ft	197.8 fc	11.1 ft	11.2 ft
14.0 ft	145.3 fc	13.0 ft	13.1 ft
16.0 ft	111.3 fc	14.8 ft	15.0 ft
18.0 ft	87.9 fc	16.7 ft	16.8 ft
20.0 ft	71.2 fc	18.5 ft	18.7 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf pc pw	20%																0%	
	80%				70%				50%				30%				10%	0%
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	59	55	73	64	59	55	64	59	55	63	58	55	62	58	55	54