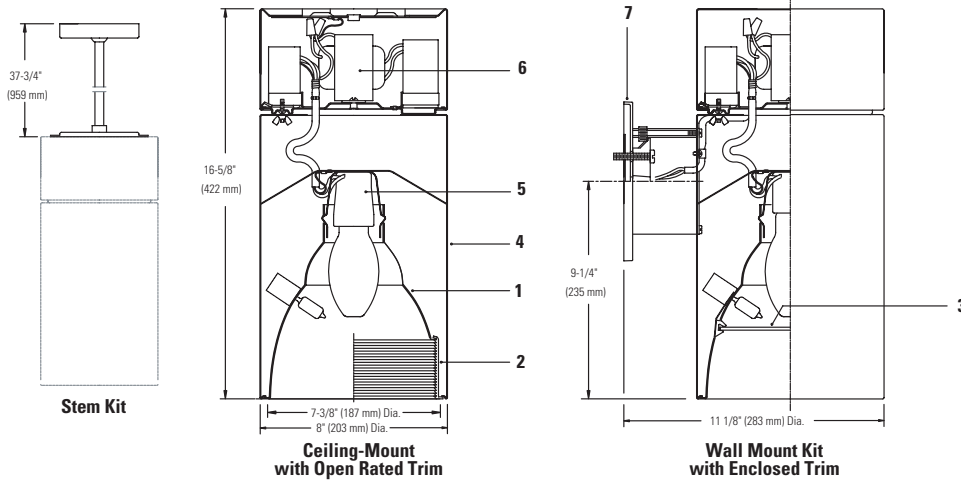


Calculite® HID Surface Cylinder C7CS-E17VM-OVM

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7" Aperture, ED17 (Open or Enclosed) Ceramic Metal Halide Downlight



Reflector Trim	Cylinder Housing	Lamp, (Coated, Ceramic MH)			
C7E17VM <input type="checkbox"/> (Enclosed) CL Specular Clear, Flangeless CCD Comfort Clear Diffuse, Flangeless CCZ Champagne Bronze, Flangeless	Ceiling-Mount C7CS70MHEU C7CS10MHEU C7CS70MHU C7CS10MHU	Wall-Mount C7CW70MHEU C7CW10MHEU C7CW70MHU C7CW10MHU	Electronic, 120V/277V Electronic, 120V/277V Magnetic, 120V/277V Magnetic, 120V/277V	70W 100W 70W 100W	ED17, BD17 (Enclosed) ED17, BD17 (Enclosed) ED17, BD17 (Enclosed) ED17, BD17 (Enclosed)
C7E170VM <input type="checkbox"/> (Open Rated) CL Specular Clear, Flangeless CCD Comfort Clear Diffuse, Flangeless CCZ Champagne Bronze, Flangeless MG Black Multi-Groove, Flangeless	C7CS70MH0EU C7CS10MH0EU C7CS70MH0U C7CS10MH0U	C7CW70MH0EU C7CW10MH0EU C7CW70MH0U C7CW10MH0U	Electronic, 120V/277V Electronic, 120V/277V Magnetic, 120V/277V Magnetic, 120V/277V	70W 100W 70W 100W	E17, ED17, BD17 (Open Rated) E17, ED17, BD17 (Open Rated) E17, ED17, BD17 (Open Rated) E17, ED17, BD17 (Open Rated)

Features

- Reflector:** Low brightness with 50° cut-off to lamp and lamp image. Anodized aluminum, 0.040" (16ga.) with minimal flange fits precisely into Cylinder housing. Available in either C7E70VM open rated series for use in open rated cylinders or C7E17VM series for use in enclosed type cylinders (both above).
- Multi-groove Baffle:** One piece seamless aluminum, sharply detailed concentric rings, black finish. Permanently fastened to specular clear reflector.
- Lamp Shield:** (Enclosed rated fixtures only). High-temperature clear glass as required by code.
- Cylinder Housing:** White painted seamless aluminum with groove designed to minimize visual appearance. Returned edge precisely seats reflector without visible hardware.
- Socket:** Medium base pulse rated socket with nickel plated screw shell. Special socket design in open rated fixtures accepts only open rated lamps. Snaps onto upper reflector for secure attachment without tools. Unitized construction assures proper lamp alignment to optics for consistent performance.
- Ballast:** Electronic or magnetic. Accessible for service and replacement.
- Back Plate:** Cast aluminum, suitable for mounting over 4" octagon outlet box.

Electrical

Electronic Ballast: 120V or 277V. Encased, high power factor, T.H.D. <15%, thermally and transient protected, RMI/RFI complies with FCC part 18 non-consumer limits, shut-down circuit at end of lamp life, sound rating "A", -5° F minimum starting temperature, Type 1 outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M143	120/277	0.67/0.28	78
100W MH	M90/M140	120/277	0.90/0.43	110

Magnetic Ballast: 120/277V dual voltage, 60 Hz., core and coil, HX-HPF circuit type, high power factor, -20° F minimum starting temperature, Type 1 Outdoor rating.

Electrical (Cont.)

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M143	120/277	1.90/0.80	94
100W MH	M90/M140	120/277	2.40/1.10	125

Options and Accessories

C4CSW: Stem Kit – White (45° Swivel, 37" long)

Provided with 5/8" dia. Stem and 5 1/2" dia. Canopy. Self-aligning swivel provides max. 45° vertical tilting. Installs over 4" octagonal outlet box. Stem can be cut to length on site.

Auxiliary Lighting: Add suffix **A** to Cylinder Housing and Reflector Trim (Not applicable with 277V Electronic).

Labels

UL (Suitable For Damp Locations), CSA (Not applicable in enclosed rated trim with electronic ballast), I.B.E.W.

Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Notes:

Calculite® HID Surface Cylinder **C7CS-E17VM-OVM**

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7" Aperture, ED17 (Open or Enclosed) Ceramic Metal Halide Downlight

70W ED17 (OPEN RATED) PHILIPS CMH LAMP-3K, LUMEN RATING = 5700 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH REFLECTOR TRIM

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization																	
			ANGLE	MEAN CD/SQ M	80%				70%				50%				30%					
0	4470				Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																	
5	4140	392	45	16615	CEILING																	
10	3669		55	435	WALL	70	50	30	10	50	10	50	10	50	10	50	10	0				
15	3195	902	65	28	RCR																	
20	2664		75	0	0	.68	.68	.68	.68	.66	.66	.63	.63	.61	.61	.57						
25	2189	999	85	0	1	.65	.64	.63	.61	.63	.60	.60	.59	.58	.57	.54						
30	1590				2	.63	.60	.58	.57	.59	.56	.57	.55	.56	.54	.51						
35	1037	677			3	.60	.57	.55	.53	.56	.53	.55	.52	.54	.51	.49						
40	648				4	.58	.54	.52	.50	.54	.49	.52	.49	.51	.48	.47						
45	334	262			5	.55	.51	.49	.47	.51	.46	.50	.46	.49	.46	.44						
50	38				6	.53	.49	.46	.44	.48	.44	.48	.44	.47	.43	.42						
55	7	12			7	.51	.46	.43	.41	.46	.41	.45	.41	.45	.41	.40						
60	1				8	.49	.44	.41	.39	.43	.39	.43	.39	.43	.39	.38						
65	0	0			9	.46	.42	.39	.37	.41	.37	.41	.36	.40	.36	.35						
70	0				10	.44	.39	.37	.34	.39	.34	.39	.34	.38	.34	.34						
75	0	0			LUMINAIRE INPUT WATTS = 78																	
80	0																					
85	0																					
90	0																					

** EFFICIENCY = 56.9% ** CERTIFIED TEST REPORT NO. 2394FR, DATE: FEB 10, 2004
SC = .7 COMPUTED BY LSI PROGRAM **TEST-LITE**

100W ED17 (OPEN RATED) PHILIPS CMH LAMP-3K, LUMEN RATING = 8500 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH TRIM

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization																	
			ANGLE	MEAN CD/SQ M	80%				70%				50%				30%					
0	6144				Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																	
5	5968	562	45	30624	CEILING																	
10	5465		55	1340	WALL	70	50	30	10	50	10	50	10	50	10	50	10	0				
15	4868	1372	65	0	RCR																	
20	4164		75	0	0	.73	.73	.73	.73	.71	.71	.68	.68	.65	.65	.61						
25	3520	1602	85	0	1	.70	.68	.67	.66	.67	.65	.65	.63	.62	.61	.58						
30	2639				2	.67	.65	.63	.61	.64	.60	.62	.59	.60	.58	.55						
35	1739	1130			3	.64	.61	.58	.56	.60	.56	.59	.55	.57	.54	.53						
40	1080				4	.62	.58	.55	.53	.57	.52	.56	.52	.55	.51	.50						
45	615	485			5	.59	.55	.51	.49	.54	.49	.53	.49	.52	.48	.47						
50	197				6	.57	.52	.49	.46	.51	.46	.50	.46	.50	.46	.45						
55	22	55			7	.54	.49	.46	.43	.49	.43	.48	.43	.47	.43	.42						
60	5	1			8	.52	.46	.43	.41	.46	.41	.45	.40	.45	.40	.39						
65	0	0			9	.49	.44	.40	.38	.43	.38	.43	.38	.42	.38	.37						
70	0				10	.47	.41	.38	.36	.41	.36	.40	.36	.40	.35	.35						
75	0	0			LUMINAIRE INPUT WATTS = 110																	
80	0																					
85	0																					
90	0																					

** EFFICIENCY = 61.3% ** CERTIFIED TEST REPORT NO. 2396FR, DATE: FEB 10, 2004
SC = .8 COMPUTED BY LSI PROGRAM **TEST-LITE**

70W ED17 (ENCLOSED), PHILIPS COATED MH UNSHIELDED. LUMEN RATING = 6000 LMS., AROMAT CAT, CL FINISH REFLECTOR TRIM.

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization																	
			ANGLE	MEAN CD/SQ M	80%				70%				50%				30%					
0	5184				Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																	
5	4618	439	45	23288	CEILING																	
10	3993		55	2932	WALL	70	50	30	10	50	10	50	10	50	10	50	10	0				
15	3481	982	65	2213	RCR																	
20	2899		75	0	0	.74	.74	.74	.74	.73	.73	.69	.69	.66	.66	.62						
25	2453	1117	85	0	1	.71	.70	.68	.67	.69	.66	.66	.64	.64	.62	.59						
30	1843				2	.68	.66	.64	.62	.65	.61	.63	.60	.61	.59	.56						
35	1256	808			3	.65	.62	.59	.57	.61	.57	.60	.56	.58	.55	.53						
40	787				4	.63	.59	.56	.54	.58	.53	.57	.53	.56	.52	.51						
45	407	329			5	.60	.56	.52	.50	.55	.50	.54	.49	.53	.49	.48						
50	98				6	.58	.53	.49	.47	.52	.47	.51	.47	.51	.46	.45						
55	42	48			7	.55	.50	.46	.44	.49	.44	.49	.44	.48	.43	.43						
60	32	19			8	.52	.47	.44	.42	.47	.41	.46	.41	.45	.41	.40						
65	23	0			9	.50	.44	.41	.39	.44	.39	.44	.39	.43	.38	.38						
70	0	0			10	.48	.42	.39	.36	.42	.36	.41	.36	.41	.36	.35						
75	0				LUMINAIRE INPUT WATTS = 78.0																	
80	0																					
85	0																					
90	0																					

** EFFICIENCY = 62.4% ** CERTIFIED TEST REPORT NO. 2518FR, DATE: MAR 6, 2004
SC = .7 COMPUTED BY LSI PROGRAM **TEST-LITE**

100W ED17 (ENCLOSED), PHILIPS COATED MH UNSHIELDED. LUMEN RATING = 9000 LMS., AROMAT, CL FINISH REFLECTOR TRIM.

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization																	
			ANGLE	MEAN CD/SQ M	80%				70%				50%				30%					
0	7771				Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																	
5	6922	659	45	34641	CEILING																	
10	5985		55	4040	WALL	70	50	30	10	50	10	50	10	50	10	50	10	0				
15	5217	1471	65	2833	RCR																	
20	4344		75	0	0	.74	.74	.74	.74	.72	.72	.69	.69	.66	.66	.62						
25	3675	1672	85	0	1	.71	.69	.68	.67	.68	.66	.66	.64	.63	.62	.59						
30	2760				2	.68	.66	.63	.62	.64	.61	.62	.60	.61	.58	.56						
35	1879	1208			3	.65	.62	.59	.57	.61	.57	.60	.56	.58	.55	.53						
40	1176				4	.63	.59	.56	.53	.58	.53	.57	.53	.55	.52	.51						
45	606	490			5	.60	.55	.52	.50	.55	.50	.54	.49	.53	.49	.48						
50	141				6	.57	.53	.49	.47	.52	.47	.51	.47	.50	.46	.45						
55	57	67			7	.55	.50	.46	.44	.49	.44	.48	.44	.48	.43	.42						
60	43	25			8	.52	.47	.44	.41	.46	.41	.46	.41	.45	.41	.40						
65	30	0			9	.50	.44	.41	.39	.44	.39	.43	.39	.43	.38	.37						
70	0	0			10	.47	.42	.39	.36	.42	.36	.41	.36	.41	.36	.35						
75	0				LUMINAIRE INPUT WATTS = 110																	
80	0																					
85	0																					
90	0																					

** EFFICIENCY = 62.1% ** CERTIFIED TEST REPORT NO. 2519FR, DATE: MAR 6, 2004
SC = .7 COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information Type:

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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