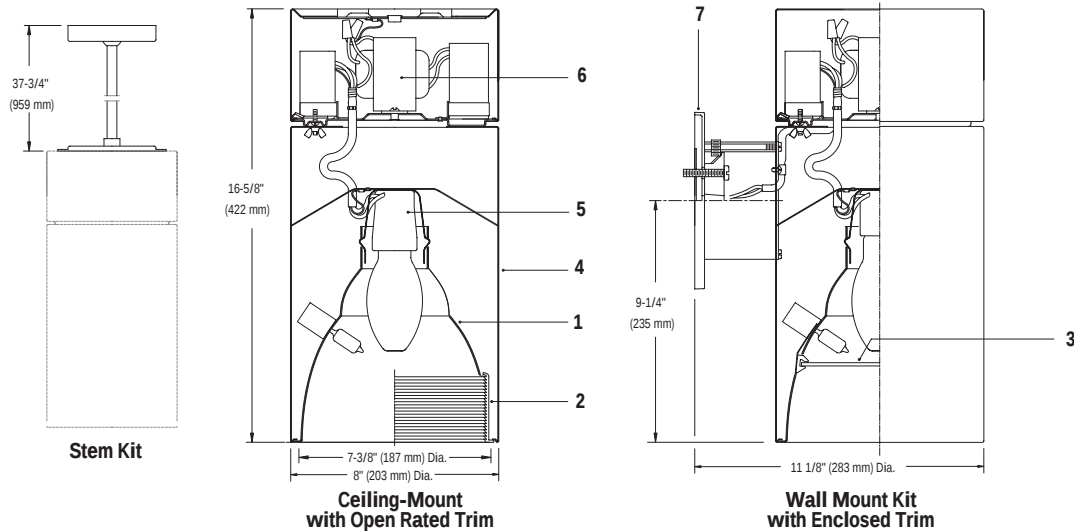


Calculite® HID Surface Cylinder C7CS-E17VM-OVM

Page 1 of 2

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



Reflector Trim	Cylinder Housing	Lamp, (Coated, Ceramic MH)			
C7E17VM (Enclosed) CL Specular Clear, Flangeless CCD Comfort Clear Diffuse, Flangeless CCZ Champagne Bronze, Flangeless	Ceiling-Mount C7CS70MHE1 C7CS70MHE2 C7CS10MHE1 C7CS10MHE2 C7CS70MHU C7CS10MHU	Wall-Mount C7CW70MHE1 C7CW70MHE2 C7CW10MHE1 C7CW10MHE2 C7CW70MHU C7CW10MHU	Electronic, 120V Electronic, 277V Electronic, 120V Electronic, 277V Magnetic, 120V/277V Magnetic, 120V/277V	70W 70W 100W 100W 70W 100W	ED17, BD17 (Enclosed) ED17, BD17 (Enclosed) ED17, BD17 (Enclosed) ED17, BD17 (Enclosed) ED17, BD17 (Enclosed) ED17, BD17 (Enclosed)
C7E17OVM (Open Rated) CL Specular Clear, Flangeless CCD Comfort Clear Diffuse, Flangeless CCZ Champagne Bronze, Flangeless MG Black Multi-Groove, Flangeless	C7CS70MHOE1 C7CS70MHOE2 C7CS10MHOE1 C7CS10MHOE2 C7CS70MHOE1 C7CS10MHOE2 C7CS70MHOU C7CS10MHOU	C7CW70MHOE1 C7CW70MHOE2 C7CW10MHOE1 C7CW10MHOE2 C7CW70MHOU C7CW10MHOU	Electronic, 120V Electronic, 277V Electronic, 120V Electronic, 277V Magnetic, 120V/277V Magnetic, 120V/277V	70W 70W 100W 100W 70W 100W	E17, ED17, BD17 (Open Rated) E17, ED17, BD17 (Open Rated) 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 C7E17OVM 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:



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

	ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.																																					
				ANGLE	MEAN CD/SQ M																																				
	0	6144		45	30624																																				
	5	5968	562	55	1340																																				
	10	5465		65	0																																				
	15	4868	1372	75	0																																				
	20	4164		85	0																																				
	25	3520	1602																																						
	30	2639																																							
	35	1739	1130																																						
	40	1080																																							
	45	615	485																																						
50	197		ZONAL LUMENS AND PERCENTAGES <table><tr><th>ZONE</th><th>LUMENS</th><th>% LAMP</th><th>% LUMINAIRE</th></tr><tr><td>0-30</td><td>3536</td><td>41.6</td><td>67.9</td></tr><tr><td>0-40</td><td>4666</td><td>54.9</td><td>89.6</td></tr><tr><td>0-60</td><td>5206</td><td>61.25</td><td>99.98</td></tr><tr><td>0-90</td><td>5207</td><td>61.27</td><td>100</td></tr><tr><td>40-90</td><td>541</td><td>6.37</td><td>10.4</td></tr><tr><td>60-90</td><td>1</td><td>0.01</td><td>0.02</td></tr><tr><td>90-180</td><td>0</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>5207</td><td>61.27</td><td>100</td></tr></table>			ZONE	LUMENS	% LAMP	% LUMINAIRE	0-30	3536	41.6	67.9	0-40	4666	54.9	89.6	0-60	5206	61.25	99.98	0-90	5207	61.27	100	40-90	541	6.37	10.4	60-90	1	0.01	0.02	90-180	0	0	0	0-180	5207	61.27	100
ZONE	LUMENS	% LAMP				% LUMINAIRE																																			
0-30	3536	41.6				67.9																																			
0-40	4666	54.9				89.6																																			
0-60	5206	61.25				99.98																																			
0-90	5207	61.27				100																																			
40-90	541	6.37				10.4																																			
60-90	1	0.01				0.02																																			
90-180	0	0				0																																			
0-180	5207	61.27				100																																			
55	22	55																																							
60	5																																								
65	0	1																																							
70	0																																								
75	0	0																																							
80	0																																								
85	0	0																																							
90	0																																								

Coefficients of Utilization										
CEILING	80%				70%		50%		30%	
	70	50	30	10	50	10	50	10	50	10
WALL	70	50	30	10	50	10	50	10	50	10
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%									
0	.73	.73	.73	.73	.71	.71	.68	.68	.65	.65
1	.70	.68	.67	.66	.67	.65	.65	.63	.62	.61
2	.67	.65	.63	.61	.64	.60	.62	.59	.60	.58
3	.64	.61	.58	.56	.60	.56	.59	.55	.57	.54
4	.62	.58	.55	.53	.57	.52	.56	.52	.55	.51
5	.59	.55	.51	.49	.54	.49	.53	.49	.52	.48
6	.57	.52	.49	.46	.51	.46	.50	.46	.50	.46
7	.54	.49	.46	.43	.49	.43	.48	.43	.47	.43
8	.52	.46	.43	.41	.46	.41	.45	.40	.45	.40
9	.49	.44	.40	.38	.43	.38	.43	.38	.42	.38
10	.47	.41	.38	.36	.41	.36	.40	.36	.40	.35
LUMINAIRE INPUT WATTS = 110										

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

	ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.																																							
	0	5184		ANGLE	MEAN CD/SQ M																																						
	5	4618	439	45	23288																																						
	10	3993		55	2932																																						
	15	3481	982	65	2213																																						
	20	2899		75	0																																						
	25	2453	1117	85	0																																						
	30	1843		ZONAL LUMENS AND PERCENTAGES <table><tr><th>ZONE</th><th>LUMENS</th><th>% LAMP</th><th>% LUMINAIRE</th></tr><tr><td>0-30</td><td>2537</td><td>42.3</td><td>67.82</td></tr><tr><td>0-40</td><td>3345</td><td>55.76</td><td>89.41</td></tr><tr><td>0-60</td><td>3722</td><td>62.04</td><td>99.48</td></tr><tr><td>0-90</td><td>3741</td><td>62.36</td><td>100</td></tr><tr><td>40-90</td><td>396</td><td>6.6</td><td>10.59</td></tr><tr><td>60-90</td><td>19</td><td>0.33</td><td>0.52</td></tr><tr><td>90-180</td><td>0</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>3741</td><td>62.36</td><td>100</td></tr></table>				ZONE	LUMENS	% LAMP	% LUMINAIRE	0-30	2537	42.3	67.82	0-40	3345	55.76	89.41	0-60	3722	62.04	99.48	0-90	3741	62.36	100	40-90	396	6.6	10.59	60-90	19	0.33	0.52	90-180	0	0	0	0-180	3741	62.36	100
	ZONE	LUMENS	% LAMP					% LUMINAIRE																																			
	0-30	2537	42.3					67.82																																			
0-40	3345	55.76	89.41																																								
0-60	3722	62.04	99.48																																								
0-90	3741	62.36	100																																								
40-90	396	6.6	10.59																																								
60-90	19	0.33	0.52																																								
90-180	0	0	0																																								
0-180	3741	62.36	100																																								
35	1256	808																																									
40	787																																										
45	407	329																																									
50	98																																										
55	42	48																																									
60	32																																										
65	23	19																																									
70	0																																										
75	0	0																																									
80	0																																										
85	0	0																																									
90	0																																										
					Coefficients of Utilization																																						
					CEILING	80%			70%		50%		30%		0																												
					WALL	70	50	30	10	50	10	50	10	10	0																												
					RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																																					
					0	.74	.74	.74	.74	.73	.73	.69	.69	.66	.66	.62																											
					1	.71	.70	.68	.67	.69	.66	.66	.64	.64	.62	.59																											
					2	.68	.66	.64	.62	.65	.61	.63	.60	.61	.59	.56																											
					3	.65	.62	.59	.57	.61	.57	.60	.56	.58	.55	.53																											
					4	.63	.59	.56	.54	.58	.53	.57	.53	.56	.52	.51																											
					5	.60	.56	.52	.50	.55	.50	.54	.49	.53	.49	.48																											
					6	.58	.53	.49	.47	.52	.47	.51	.47	.51	.46	.45																											
					7	.55	.50	.46	.44	.49	.44	.49	.44	.48	.43	.43																											
					8	.52	.47	.44	.42	.47	.41	.46	.41	.45	.41	.40																											
					9	.50	.44	.41	.39	.44	.39	.44	.39	.43	.38	.38																											
					10	.48	.42	.39	.36	.42	.36	.41	.36	.41	.36	.35																											
					LUMINAIRE INPUT WATTS = 78.0																																						

** EFFICIENCY = 62.4% **
SC = .7

CERTIFIED TEST REPORT NO. 2518FR, DATE: MAR 6, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

	ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.																																							
	0	7771		ANGLE	MEAN CD/SQ M																																						
	5	6922	659	45	34641																																						
	10	5985		55	4040																																						
	15	5217	1471	65	2833																																						
	20	4344		75	0																																						
	25	3675	1672	85	0																																						
	30	2760		ZONAL LUMENS AND PERCENTAGES <table style="width: 100%; border-collapse: collapse;"><tr><th>ZONE</th><th>LUMENS</th><th>% LAMP</th><th>% LUMINAIRE</th></tr><tr><td>0-30</td><td>3802</td><td>42.25</td><td>67.99</td></tr><tr><td>0-40</td><td>5010</td><td>55.68</td><td>89.6</td></tr><tr><td>0-60</td><td>5567</td><td>61.86</td><td>99.55</td></tr><tr><td>0-90</td><td>5592</td><td>62.14</td><td>100</td></tr><tr><td>40-90</td><td>581</td><td>6.46</td><td>10.4</td></tr><tr><td>60-90</td><td>25</td><td>0.28</td><td>0.45</td></tr><tr><td>90-180</td><td>0</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>5592</td><td>62.14</td><td>100</td></tr></table>				ZONE	LUMENS	% LAMP	% LUMINAIRE	0-30	3802	42.25	67.99	0-40	5010	55.68	89.6	0-60	5567	61.86	99.55	0-90	5592	62.14	100	40-90	581	6.46	10.4	60-90	25	0.28	0.45	90-180	0	0	0	0-180	5592	62.14	100
	ZONE	LUMENS	% LAMP					% LUMINAIRE																																			
	0-30	3802	42.25					67.99																																			
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35	1879	1208																																									
40	1176																																										
45	606	490																																									
50	141																																										
55	57	67																																									
60	43																																										
65	30	25																																									
70	0																																										
75	0	0																																									
80	0																																										
85	0	0																																									
90	0																																										

Coefficients of Utilization

CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.74	.74	.74	.74	.72	.72	.69	.69	.66	.66	.62
1	.71	.69	.68	.67	.68	.66	.66	.64	.63	.62	.59
2	.68	.66	.63	.62	.64	.61	.62	.60	.61	.58	.56
3	.65	.62	.59	.57	.61	.57	.60	.56	.58	.55	.53
4	.63	.59	.56	.53	.58	.53	.57	.53	.55	.52	.51
5	.60	.55	.52	.50	.55	.50	.54	.49	.53	.49	.48
6	.57	.53	.49	.47	.52	.47	.51	.47	.50	.46	.45
7	.55	.50	.46	.44	.49	.44	.48	.44	.48	.43	.42
8	.52	.47	.44	.41	.46	.41	.46	.41	.45	.41	.40
9	.50	.44	.41	.39	.44	.39	.43	.39	.43	.38	.37
10	.47	.42	.39	.36	.42	.36	.41	.36	.41	.36	.35

LUMINAIRE INPUT WATTS = 110

** EFFICIENCY = 62.1% **
SC = 7

Job Information

Type:

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
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