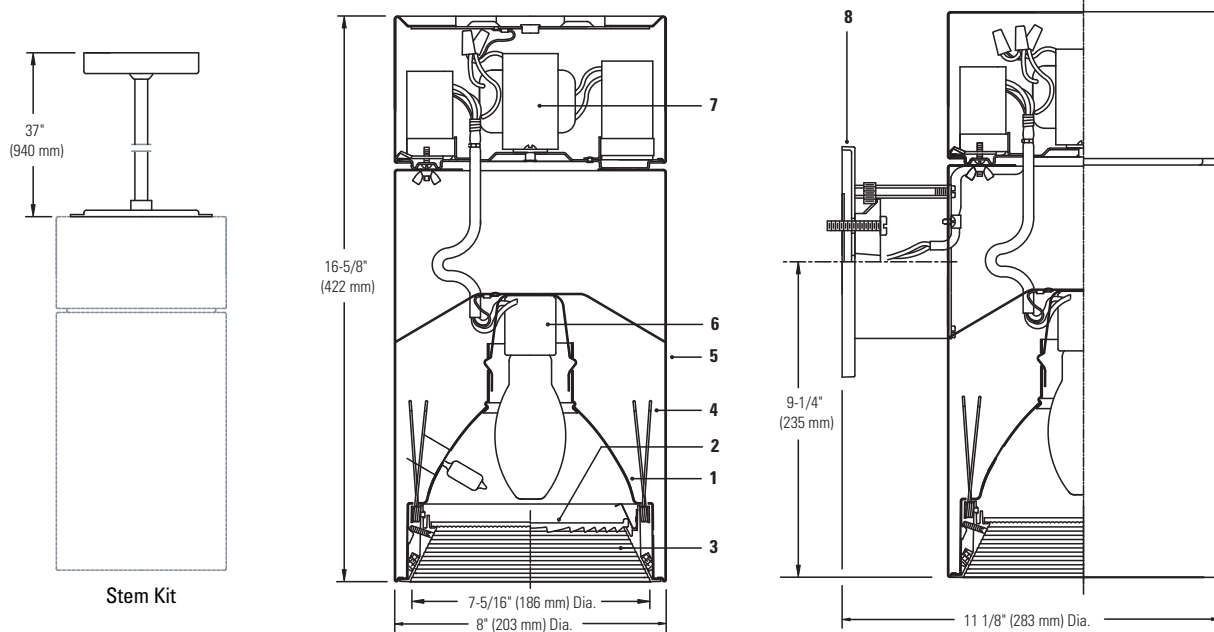


Calculite® HID Surface Cylinder **C7CS-E17FL-PL**



Reflector Trim		Cylinder Housing		Lamp (Coated, Ceramic MH)
C7E17FLWH	Fresnel Lens, Minimal Flange.	Ceiling-Mount	Wall-Mount	
C7E17PLWH	Prismatic Lens, Minimal Flange.	C7CS70MHEU	C7CW70MHEU	70W E17, ED17, BD17 (Open/Enclosed)
		C7CS70MHU	C7CW70MHU	70W E17, ED17, BD17 (Open/Enclosed)
		C7CS10MHEU	C7CW10MHEU	100W E17, ED17, BD17 (Open/Enclosed)
		C7CS10MHU	C7CW10MHU	100W E17, ED17, BD17 (Open/Enclosed)
		C7CS70MHU	C7CW70MHU	70W E17, ED17, BD17 (Open/Enclosed)
		C7CS10MHU	C7CW10MHU	100W E17, ED17, BD17 (Open/Enclosed)

Features

- Reflector:** Semi-Specular anodized aluminum, 16 ga. Removable from inside fixture for access to splices and ballast.
- Lens:** Prismatic (C7E17PLWH) or Fresnel (C7E17FLWH) lens. Regressed 1 3/4" from ceiling line.
- Die-Cast Baffle:** Painted white, deep conical step baffle for low brightness, supports lens. Small Allen-head set screw provides secure attachment for use where vandal resistant luminaires are required.
- Torsionite Springs:** Permit removal of lens assembly without tools.
- 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

Electrical (Cont.)

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

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

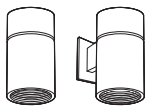
C4CSW: Stem Kit – White (45° Swivel, 37" long). Provide with 5/8" dia. Stem and 5 1/2" dia. Canopy. Self-aligning swivel provides max. 45° vertical tilting. Installs over 4" octagonal outlet box. Stem can be cut to length on site.

Auxiliary Lighting: Add suffix **A** to Cylinder Housing and Reflector Trim

Labels

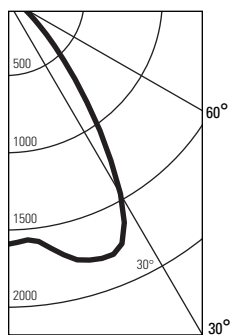
UL (Suitable For Wet Locations), CSA (Not applicable with electronic ballast), I.B.E.W.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	



Calculite® HID Surface Cylinder **C7CS-E17FL-PL**

FRESNEL LENS/WHITE BAFFLE - 70W ED17 (ENCLOSED), PHILIPS CERAMIC MH. LUMEN RATING = 6000 LMS. , AROMAT ELECTRONIC BALLAST.



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	1594		45	25073
5	1570	152	55	13070
10	1643		65	8156
15	1753	492	75	3330
20	1792		85	1065
25	1753	782		
30	1463			
35	1045	666		
40	686			
45	439	357		
50	280			
55	185	174		
60	125			
65	85	86		
70	50			
75	21	27		
80	9			
85	2	4		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1426	23.77	52.06
0-40	2092	34.87	76.36
0-60	2622	43.71	95.74
0-90	2739	45.66	100
40-90	647	10.79	23.64
60-90	116	1.95	4.26
90-180	0	0	0
0-180	2739	45.66	100

Coefficients of Utilization

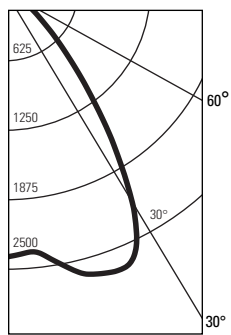
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
0	.54	.54	.54	.53	.53	.53	.51	.51	.49	.49	.46
1	.52	.50	.48	.51	.49	.47	.47	.46	.46	.44	.42
2	.49	.47	.43	.48	.46	.42	.44	.42	.43	.41	.39
3	.46	.43	.39	.45	.42	.38	.41	.38	.40	.37	.36
4	.44	.40	.35	.43	.40	.35	.39	.35	.38	.34	.33
5	.41	.37	.32	.40	.37	.32	.36	.32	.35	.31	.30
6	.39	.35	.30	.38	.34	.29	.33	.29	.33	.29	.28
7	.36	.32	.27	.36	.32	.27	.31	.27	.30	.26	.26
8	.34	.30	.25	.34	.29	.25	.29	.25	.28	.24	.24
9	.32	.28	.23	.32	.27	.23	.27	.22	.26	.22	.22
10	.30	.26	.21	.30	.25	.21	.25	.21	.25	.21	.20

LUMINAIRE INPUT WATTS = 78

** EFFICIENCY = 44.4% **
SC = .9

CERTIFIED TEST REPORT NO. 2552FR, DATE: MAR 23, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

FRESNEL LENS/WHITE BAFFLE - 100W ED17 (ENCLOSED) COATED, CERAMIC MH, PHILIPS, LUMEN RATING = 9000 LMS., AROMAT ELECTRONIC BALLAST



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	2391		45	37610
5	2355	228	55	19605
10	2464		65	12235
15	2630	738	75	4995
20	2688		85	1598
25	2629	1173		
30	2194			
35	1568	999		
40	1028			
45	658	535		
50	420			
55	278	261		
60	187			
65	128	129		
70	76			
75	32	41		
80	14			
85	3	6		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2139	23.77	52.06
0-40	3138	34.87	76.36
0-60	3934	43.71	95.74
0-90	4109	45.66	100
40-90	971	10.79	23.64
60-90	175	1.95	4.26
90-180	0	0	0
0-180	4109	45.66	100

Coefficients of Utilization

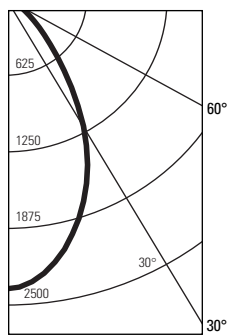
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
0	.54	.54	.54	.54	.53	.53	.51	.51	.49	.49	.46
1	.52	.50	.49	.48	.49	.47	.47	.46	.46	.44	.42
2	.49	.47	.45	.43	.46	.42	.44	.42	.43	.41	.39
3	.46	.43	.41	.39	.42	.38	.41	.38	.40	.37	.36
4	.44	.40	.37	.35	.40	.35	.39	.35	.38	.34	.33
5	.41	.37	.34	.32	.37	.32	.36	.32	.35	.31	.30
6	.39	.35	.32	.30	.34	.29	.33	.29	.33	.29	.28
7	.36	.32	.29	.27	.32	.27	.31	.27	.30	.26	.26
8	.34	.30	.27	.25	.29	.25	.29	.25	.28	.24	.24
9	.32	.28	.25	.23	.27	.23	.27	.22	.26	.22	.22
10	.30	.26	.23	.21	.25	.21	.25	.21	.25	.21	.20

LUMINAIRE INPUT WATTS = 110

** EFFICIENCY = 45.7% **
SC = 1.1

CERTIFIED TEST REPORT NO. 2566FR, DATE: MAR 24, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

PRISMATIC LENS/WHITE BAFFLE - 70W ED17 (ENCLOSED), PHILIPS CERAMIC MH. LUMEN RATING = 6000 LMS. , AROMAT ELECTRONIC BALLAST.



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	2368		45	24091
5	2318	219	55	12972
10	2183		65	7868
15	1988	561	75	3806
20	1759		85	1310
25	1497	689		
30	1202			
35	886	564		
40	617			
45	421	337		
50	283			
55	184	173		
60	121			
65	82	84		
70	51			
75	24	29		
80	11			
85	3	5		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1469	24.49	55.2
0-40	2033	33.89	76.39
0-60	2543	42.4	95.58
0-90	2661	44.36	100
40-90	628	10.47	23.61
60-90	117	1.96	4.42
90-180	0	0	0
0-180	2661	44.36	100

Coefficients of Utilization

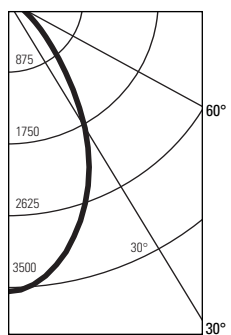
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
0	.53	.53	.53	.53	.52	.52	.49	.49	.47	.47	.44
1	.50	.49	.48	.47	.48	.46	.46	.45	.44	.43	.41
2	.48	.45	.44	.42	.45	.42	.43	.41	.42	.40	.38
3	.45	.42	.40	.38	.41	.38	.40	.37	.39	.37	.35
4	.43	.39	.37	.35	.39	.35	.38	.34	.37	.34	.33
5	.40	.37	.34	.32	.36	.32	.35	.32	.35	.31	.30
6	.38	.34	.31	.30	.34	.29	.33	.29	.33	.29	.28
7	.36	.32	.29	.27	.32	.27	.31	.27	.30	.27	.26
8	.34	.30	.27	.25	.29	.25	.29	.25	.29	.25	.24
9	.32	.28	.25	.23	.28	.23	.27	.23	.27	.23	.22
10	.31	.26	.23	.21	.26	.21	.25	.21	.25	.21	.21

LUMINAIRE INPUT WATTS = 78

** EFFICIENCY = 44.4% **
SC = .9

CERTIFIED TEST REPORT NO. 2553FR, DATE: MAR 23, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

PRISMATIC LENS/WHITE BAFFLE - 100W ED17 (ENCLOSED) COATED, CERAMIC MH, PHILIPS, LUMEN RATING = 9000 LMS., AROMAT ELECTRONIC BALLAST



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	3550		45	36025
5	3476	329	55	19321
10	3272		65	11616
15	2980	841	75	5405
20	2636		85	1117
25	2243	1033		
30	1801			
35	1327	845		
40	924			
45	630	505		
50	423			
55	274	258		
60	180			
65	121	123		
70	75			
75	35	42		
80	15			
85	2	5		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2202	24.47	55.32
0-40	3046	33.85	76.54
0-60	3809	42.33	95.71
0-90	3980	44.23	100
40-90	933	10.38	23.46
60-90	170	1.9	4.29
90-180	0	0	0
0-180	3980	44.23	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										0
0	.53	.53	.53	.53	.51	.51	.49	.49	.47	.47	.44
1	.50	.49	.48	.47	.48	.46	.46	.44	.44	.43	.41
2	.47	.45	.43	.42	.44	.41	.43	.40	.42	.40	.38
3	.45	.42	.40	.38	.41	.38	.40	.37	.39	.36	.35
4	.43	.39	.37	.35	.39	.35	.38	.34	.37	.34	.33
5	.40	.37	.34	.32	.36	.32	.35	.31	.35	.31	.30
6	.38	.34	.31	.29	.34	.29	.33	.29	.32	.29	.28
7	.36	.32	.29	.27	.31	.27	.31	.27	.30	.27	.26
8	.34	.30	.27	.25	.29	.25	.29	.25	.28	.25	.24
9	.32	.28	.25	.23	.27	.23	.27	.23	.27	.23	.22
10	.30	.26	.23	.21	.26	.21	.25	.21	.25	.21	.21

LUMINAIRE INPUT WATTS = 110

** EFFICIENCY = 44.2% **
SC = .9

CERTIFIED TEST REPORT NO. 2567FR, DATE: MAR 24, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information Type:

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