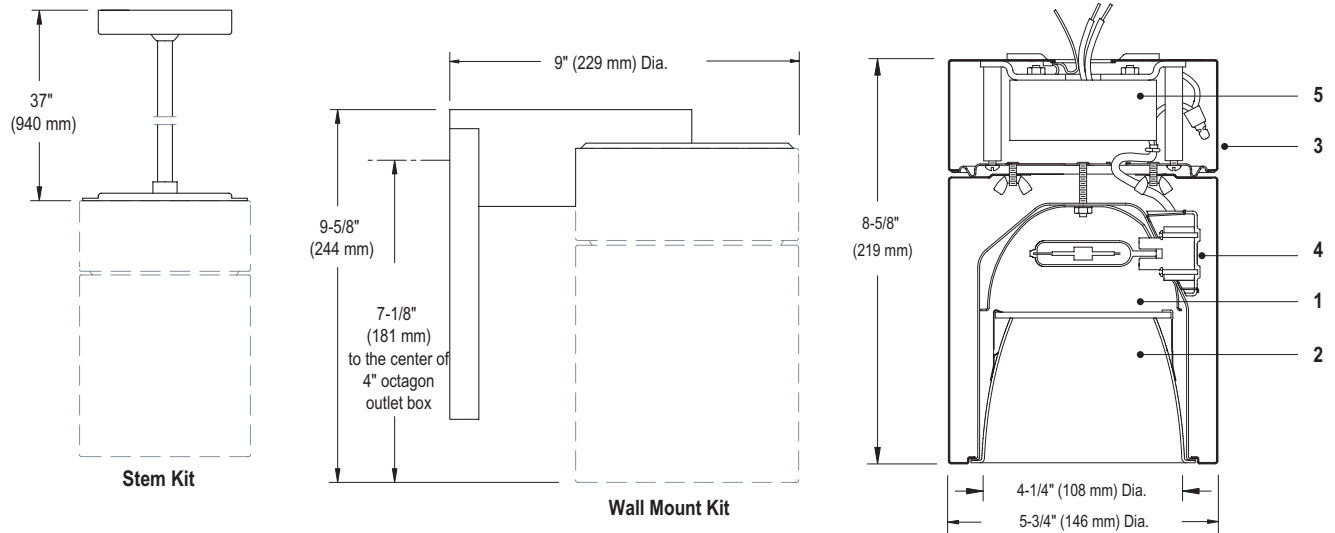


# Calculite® HID Surface Cylinder **C4CS-C4T4HW**



Reflector Trim			Cylinder Housing		Lamp	
C4T4HW	CL	Specular Clear, Minimal Flange.	C4CS20T4E1	Electronic 120V	20W T4.5	Ceramic MH
	CCD	Comfort Clear Diffuse, Minimal Flange.	C4CS20T4E2	Electronic 277V	20W T4.5	Ceramic MH
	CCZ	Champagne Bronze, Minimal Flange.	C4CS39T4E1	Electronic 120V	39W T4.5	Ceramic MH
			C4CS39T4E2	Electronic 277V	39W T4.5	Ceramic MH

### Features

- Upper Reflector:** Clear anodized aluminum, 0.040" (16-ga.). Provides wide beam optics.
- Aperture Cone:** Low brightness with 50° cut-off to lamp and lamp image. Anodized aluminum minimal flange. Supports captive lamp shield.
- Cylinder Housing:** Two-piece, white baked enamel seamless aluminum.
- Socket Housing:** Galvanized steel, pre-wired with G8.5 pulse rated socket. Snaps onto upper reflector for secure attachment without tools; assures proper lamp alignment to optics for consistent performance.
- 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
20W MH	M156	120/277	0.21/0.10	23
39W MH	M130	120/277	0.39/0.17	44

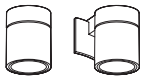
### Options and Accessories

- C4CSW:** Stem Kit – White (45° Swivel, 37" Long)  
 Provided with 5/8" dia. Stem and 5 1/2" Canopy. Self-aligning swivel provides max. 45° vertical tilting. Installs over 4" octagonal outlet box. Stem can be cut to length on site.
- C4CWBW:** Wall Mount Kit – White  
 Cast aluminum back plate, suitable for mounting over 4" octagon outlet box.

### Labels

UL (Suitable for Wet Locations), CSA, I.B.E.W.

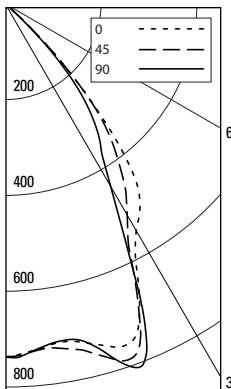
Job Information	Type:
<b>Job Name:</b>	
<b>Cat. No.:</b>	
<b>Lamp(s):</b>	
<b>Notes:</b>	



# Calculite® HID Surface Cylinder **C4CS-C4T4HW**

## 20W T4.5 G.E. CERAMIC MH LAMP, LUMEN RATING = 1700 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH TRIM

### CANDLEPOWER DISTRIBUTION



ANGLE	0°	45°	90°
0	737	737	737
5	725	727	725
10	716	731	713
15	736	759	743
20	755	784	808
25	661	643	655
30	547	509	440
35	488	419	342
40	331	310	247
45	128	128	106
50	8	9	7
55	0	0	0
60	0	0	0
65	0	0	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

### LUMINANCE SUMMARY - CD. / SQ. M.

ANGLE	0°	45°	90°
45	22327	22499	18491
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	582	34.27	61.25
0-40	842	49.53	88.54
0-60	951	55.94	100
0-90	951	55.94	100
40-90	108	6.41	11.46
60-90	0	0	0
90-180	0	0	0
0-180	951	55.94	100

### Coefficients of Utilization

CEILING	80%			70%			50%			30%		
	70	50	30	10	50	10	50	10	50	10	0	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%											
0	.67	.67	.67	.67	.65	.65	.62	.62	.60	.60	.56	
1	.64	.62	.61	.60	.61	.59	.59	.57	.57	.56	.53	
2	.61	.59	.57	.55	.58	.54	.56	.53	.54	.52	.50	
3	.58	.55	.53	.51	.54	.50	.53	.49	.52	.49	.47	
4	.56	.52	.49	.47	.51	.47	.50	.46	.49	.46	.44	
5	.53	.49	.46	.43	.48	.43	.47	.43	.46	.43	.41	
6	.51	.46	.43	.41	.45	.40	.45	.40	.44	.40	.39	
7	.48	.43	.40	.38	.43	.37	.42	.37	.41	.37	.36	
8	.45	.40	.37	.35	.40	.35	.39	.35	.39	.34	.34	
9	.43	.38	.34	.32	.37	.32	.37	.32	.36	.32	.31	
10	.40	.35	.32	.30	.35	.30	.34	.30	.34	.29	.29	

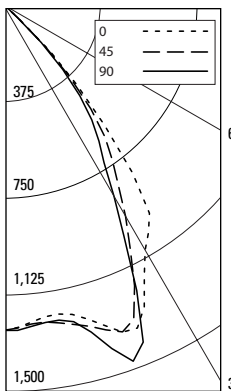
LUMINAIRE INPUT WATTS = 23

\*\* EFFICIENCY = 55.9% \*\*  
SC( 0°) = 1.0, SC( 90°) = 1.0

CERTIFIED TEST REPORT NO. 2342FR, DATE: NOV 03, 2003  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

## 39W T4.5 PHILIPS CERAMIC MH LAMP, LUMEN RATING = 3300 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH TRIM

### CANDLEPOWER DISTRIBUTION



ANGLE	0°	45°	90°
0	1262	1262	1262
5	1235	1242	1251
10	1217	1252	1241
15	1261	1290	1313
20	1350	1349	1470
25	1291	1202	1222
30	1098	946	856
35	986	736	645
40	609	527	460
45	259	230	207
50	26	25	25
55	7	6	6
60	2	2	3
65	1	0	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

### LUMINANCE SUMMARY - CD. / SQ. M.

ANGLE	0°	45°	90°
45	45196	40293	36329
55	1435	1371	1195
65	237	95	95
75	0	0	0
85	0	0	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1042	31.59	60.34
0-40	1520	46.08	88.01
0-60	1726	52.33	99.96
0-90	1727	52.35	100
40-90	207	6.28	11.99
60-90	0	0.02	0.04
90-180	0	0	0
0-180	1727	52.35	100

### Coefficients of Utilization

CEILING	80%			70%			50%			30%		
	70	50	30	10	50	10	50	10	50	10	0	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%											
0	.62	.62	.62	.62	.61	.61	.58	.58	.56	.56	.52	
1	.60	.58	.57	.56	.57	.55	.55	.53	.53	.52	.49	
2	.57	.55	.53	.51	.54	.51	.52	.50	.51	.49	.47	
3	.54	.51	.49	.47	.51	.47	.49	.46	.48	.45	.44	
4	.52	.48	.46	.44	.48	.43	.47	.43	.46	.42	.41	
5	.49	.45	.42	.40	.45	.40	.44	.40	.43	.40	.38	
6	.47	.43	.40	.38	.42	.37	.41	.37	.41	.37	.36	
7	.44	.40	.37	.35	.40	.35	.39	.35	.38	.34	.33	
8	.42	.37	.34	.32	.37	.32	.36	.32	.36	.32	.31	
9	.40	.35	.32	.30	.34	.30	.34	.29	.34	.29	.29	
10	.38	.32	.29	.27	.32	.27	.32	.27	.31	.27	.26	

LUMINAIRE INPUT WATTS = 44

\*\* EFFICIENCY = 55.9% \*\*  
SC( 0°) = 1.3, SC( 90°) = 1.1

CERTIFIED TEST REPORT NO. 2341FR, DATE: FEB 10, 2004  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

<b>Job Information</b>	<b>Type:</b>
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