

Surface Cylinder (Complete Unit)	Housing	Lamping (Ceramic Metal Halide)
C4CEX20T4EU	Painted Aluminum	20W T4.5
C4CEX20T4EUA	Satin Aluminum	20W T4.5
C4CEX20BT5PGJ5E1	Painted Aluminum	22W Philips MiniMasterColor PGJ5
C4CEX20BT5PGJ5E1A	Satin Aluminum	22W Philips MiniMasterColor PGJ5
C4CEX20T4GU65EU	Painted Aluminum	20W GE ConstantColor
C4CEX20T4GU65EUA	Satin Aluminum	20W GE ConstantColor
C4CEX39T4EU	Painted Aluminum	39W T4.5
C4CEX39T4EUA	Satin Aluminum	39W T4.5
C4CEX39BT5PGJ5E1	Painted Aluminum	39W Philips MiniMasterColor
C4CEX39BT5PGJ5E1A	Satin Aluminum	39W Philips MiniMasterColor
C4CEX39T4GU65EU	Painted Aluminum	39W GE ConstantColor
C4CEX39T4GU65EUA	Satin Aluminum	39W GE ConstantColor

Features

- Glass Shroud:** Clear glass cylinder provides visual interest and a contemporary decorative element; glass diffuser and reflector exposed.
- Glass Diffuser:** Etched glass cylindrical diffuser provides cutoff to the light source delivering smooth even illumination.
- Cylinder Base Cover:** Powder coated (to match base) die-cast cover is removable to access wiring and ballast.
- Cylinder Base:** Powder coated matte silver die-cast aluminum base supports glass cylinder and conceals electrical components.
- Reflector:** Highly polished specular aluminum. Precisely controls and directs light downward providing high-efficiency optics.
- Lamp Shield:** High-temperature glass as required by code; captive during re-lamping. Light diffusion provides exceptionally smooth beam.
- Socket Housing:** Galvanized steel, pre-wired with G8.5 pulse rated socket. Snaps onto upper reflector for secure attachment without tools; unitized construction assures proper optical alignment of lamp to reflector.
- Electronic Ballast:** 20W / 39W electronic universal (120/277V)

Electrical

Electronic Ballast: 120V/277V dual voltage, 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

- CA4CWBS:** Wall Mount Kit – Silver.
Cast aluminum back plate, suitable for mounting over 4" octagon outlet box.
- CACPS:** 120" Cable Pendant Kit – Silver.
Cast aluminum back plate, suitable for mounting over 4" octagon outlet box. Provided with (3) 0.050" cables, power cable and 6 1/2" decorative plate. Installs over 4" octagon Outlet box. Cable can be cut to length on site. Damp locations only.
- CACSS:** Stem Kit – Silver (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. Damp locations only.
- CAEXPT:** Expo Rod & Trim Kit

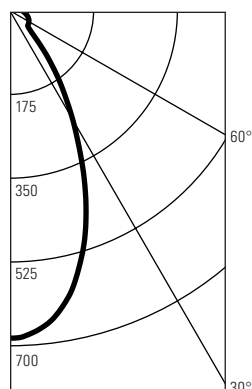
Labels

UL Listed (suitable for wet locations), CSA, I.B.E.W.

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

20W T4.5 G.E. Ceramic MH, Lumen Rating = 1700 LMS., Aromat 20W Electronic Ballast

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CD/SQ M
45	5075
55	4571
65	5720
75	7871
85	18528

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	5075
55	4571
65	5720
75	7871
85	18528

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	387	22.79	53.92
0-40	504	29.68	70.2
0-60	604	35.54	84.08
0-90	718	42.27	100
40-90	214	12.6	29.8
60-90	114	6.73	15.92
90-180	0	0	0
0-180	718	42.27	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%										
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.50	.50	.50	.50	.49	.49	.47	.47	.45	.45	.42
1	.47	.45	.44	.42	.44	.42	.42	.40	.41	.39	.37
2	.44	.41	.39	.37	.41	.37	.39	.36	.38	.35	.34
3	.41	.38	.35	.33	.37	.33	.36	.33	.35	.32	.31
4	.39	.35	.33	.31	.35	.30	.34	.30	.33	.30	.29
5	.37	.33	.30	.28	.33	.28	.32	.28	.31	.27	.26
6	.35	.31	.28	.26	.31	.26	.30	.26	.29	.26	.25
7	.33	.29	.26	.24	.29	.24	.28	.24	.28	.24	.23
8	.32	.27	.25	.23	.27	.23	.27	.23	.26	.22	.22
9	.30	.26	.23	.21	.26	.21	.25	.21	.25	.21	.20
10	.29	.24	.22	.20	.24	.20	.24	.20	.23	.20	.19

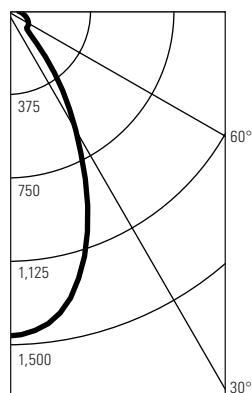
** EFFICIENCY = 42.3% **
SC = .8

CERTIFIED TEST REPORT NO. 2616FR, DATE: MAY 10, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

LUMINAIRE INPUT WATTS = 23

39W T4.5 Philips Ceramic MH, Lumen Rating = 3300 LMS., Aromat 39W Electronic Ballast

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CD/SQ M
45	11431
55	11051
65	13572
75	17969
85	39439

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	11431
55	11051
65	13572
75	17969
85	39439

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	871	26.41	53.12
0-40	1147	34.77	69.93
0-60	1380	41.85	84.18
0-90	1640	49.71	100
40-90	493	14.95	30.07
60-90	259	7.86	15.82
90-180	0	0	0
0-180	1640	49.71	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%										
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.59	.59	.59	.59	.58	.58	.55	.55	.53	.53	.50
1	.55	.53	.51	.50	.52	.49	.50	.47	.48	.46	.44
2	.52	.49	.46	.44	.48	.43	.46	.42	.44	.41	.39
3	.49	.45	.42	.39	.44	.39	.43	.38	.41	.38	.36
4	.46	.42	.38	.36	.41	.36	.40	.35	.39	.35	.33
5	.43	.39	.35	.33	.38	.33	.37	.32	.36	.32	.31
6	.41	.36	.33	.30	.36	.30	.35	.30	.34	.30	.29
7	.39	.34	.31	.28	.34	.28	.33	.28	.32	.28	.27
8	.37	.32	.29	.26	.31	.26	.31	.26	.30	.26	.25
9	.35	.30	.27	.25	.30	.25	.29	.24	.29	.24	.23
10	.33	.28	.25	.23	.28	.23	.28	.23	.27	.23	.22

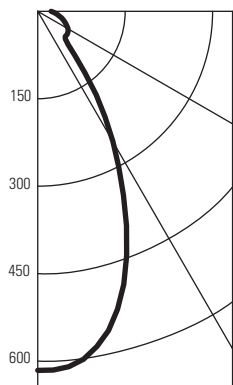
** EFFICIENCY = 49.7% **
SC = .8

CERTIFIED TEST REPORT NO. 2335FR, DATE: APRIL 19, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

LUMINAIRE INPUT WATTS = 44

Job Information **Type:**

22W PGJ5 Philips MiniMastercolor CMH Lamp, Lumen Rating = 1650 lms, Aromat Electronic Ballast



Angle	Mean CP	Lumens	Zonal Lumens and Percentages			
			Zone	Lumens	% Lamp	%Luminaire
0	616		0-30	367	22.3	50.94
5	612	58	0-40	479	29.04	66.32
10	584		0-60	592	35.92	82.05
15	529	148	0-90	722	43.78	100
20	446		40-90	243	14.74	33.68
25	348	162	60-90	129	7.86	17.95
30	258		90-180	0	0	0
35	175	111	0-180	722	43.78	100
40	100		Luminaire Summary			
45	67	58	Angle	Mean CD/SQ M		
50	64		45	2041		
55	63	56	55	1857		
60	60		65	1589		
65	54	54	75	1273		
70	48		85	935		
75	42	44				
80	35					
85	29	32				
90	23					

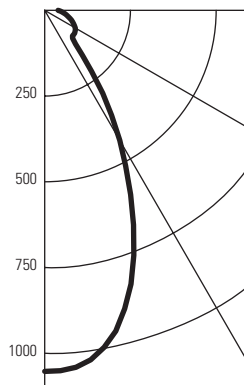
Coefficients of Utilization

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%										
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.52	.52	.52	.52	.51	.51	.49	.49	.47	.47	.44
1	.48	.47	.45	.44	.46	.43	.44	.42	.42	.40	.38
2	.45	.42	.40	.38	.41	.37	.40	.37	.39	.36	.34
3	.42	.39	.36	.34	.38	.33	.37	.33	.36	.32	.31
4	.40	.36	.33	.31	.35	.30	.34	.30	.33	.30	.29
5	.38	.33	.30	.28	.33	.28	.32	.28	.31	.27	.26
6	.36	.31	.28	.26	.31	.26	.30	.26	.29	.25	.24
7	.34	.29	.26	.24	.29	.24	.28	.24	.27	.23	.23
8	.32	.27	.24	.22	.27	.22	.26	.22	.26	.22	.21
9	.30	.26	.23	.21	.25	.21	.25	.21	.25	.21	.20
10	.29	.24	.21	.19	.24	.19	.24	.19	.23	.19	.19

Certified Test Report No. 3959FR

** Efficiency 43.80% **
SC = 0.8

39W PGJ5 Philips MiniMastercolor CMH Lamp, Lumen Rating = 3000 lms, Aromat Electronic Ballast



Angle	Mean CP	Lumens	Zonal Lumens and Percentages			
			Zone	Lumens	% Lamp	%Luminaire
0	1053		0-30	626	20.89	50.84
5	1045	99	0-40	814	27.17	66.1
10	998		0-60	1010	33.67	81.93
15	901	252	0-90	1232	41.1	100
20	760		40-90	417	13.93	33.9
25	593	276	60-90	222	7.43	18.07
30	438		90-180	0	0	0
35	295	188	0-180	1232	41.1	100
40	171		Luminaire Summary			
45	115	99	Angle	Mean CD/SQ M		
50	110		45	3503		
55	108	96	55	3184		
60	103		65	2737		
65	93	92	75	2151		
70	83		85	1612		
75	71	76				
80	61					
85	50	55				
90	39					

Coefficients of Utilization

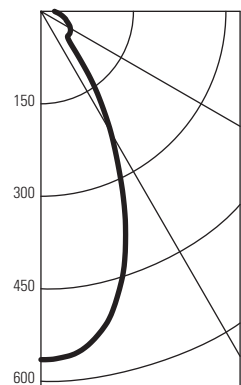
Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.49	.49	.49	.49	.48	.48	.46	.46	.44	.44	.41
1	.45	.44	.42	.41	.43	.40	.41	.39	.39	.38	.36
2	.42	.40	.37	.35	.39	.35	.37	.34	.36	.33	.32
3	.40	.36	.34	.32	.36	.31	.35	.31	.33	.30	.29
4	.37	.34	.31	.29	.33	.28	.32	.28	.31	.28	.27
5	.35	.31	.28	.26	.31	.26	.30	.26	.29	.26	.25
6	.33	.29	.26	.24	.29	.24	.28	.24	.27	.24	.23
7	.32	.27	.24	.22	.27	.22	.26	.22	.26	.22	.21
8	.30	.26	.23	.21	.25	.21	.25	.21	.24	.21	.20
9	.28	.24	.21	.19	.24	.19	.23	.19	.23	.19	.19
10	.27	.23	.20	.18	.22	.18	.22	.18	.22	.18	.17

Certified Test Report No. 3960FR

** Efficiency 41.10% **
SC = 0.8

Job Information **Type:**

20W GU6.5 GE ConstantColor CMH Lamp, Lumen Rating = 1615 LMS, Aromat Electronic Ballast



Angle	Mean CP	Lumens
0	565	
5	560	53
10	533	
15	479	134
20	401	
25	309	144
30	227	
35	155	99
40	92	
45	62	53
50	59	
55	58	52
60	55	
65	50	50
70	44	
75	39	41
80	33	
85	27	30
90	22	

Zonal Lumens and Percentages			
Zone	Lumens	% Lamp	%Luminaire
0-30	331	20.52	50.56
0-40	430	26.64	65.65
0-60	535	33.14	81.67
0-90	655	40.58	100
40-90	225	13.94	34.35
60-90	120	7.44	18.33
90-180	0	0	0
0-180	655	40.58	100

Luminaire Summary	
Angle	Mean CD/SQ M
45	1888
55	1710
65	1472
75	1182
85	870

Coefficients of Utilization

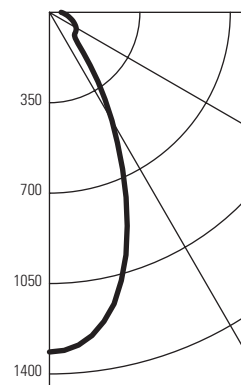
Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.48	.48	.48	.48	.47	.47	.45	.45	.43	.43	.41
1	.45	.43	.42	.40	.42	.40	.41	.38	.39	.37	.35
2	.42	.39	.37	.35	.38	.35	.37	.34	.36	.33	.32
3	.39	.36	.33	.31	.35	.31	.34	.30	.33	.30	.29
4	.37	.33	.30	.28	.33	.28	.32	.28	.31	.27	.26
5	.35	.31	.28	.26	.30	.26	.30	.25	.29	.25	.24
6	.33	.29	.26	.24	.28	.24	.28	.24	.27	.23	.23
7	.31	.27	.24	.22	.27	.22	.26	.22	.25	.22	.21
8	.30	.25	.22	.21	.25	.20	.24	.20	.24	.20	.20
9	.28	.24	.21	.19	.23	.19	.23	.19	.23	.19	.18
10	.27	.22	.20	.18	.22	.18	.22	.18	.21	.18	.17

Certified Test Report No. 3906FR

** Efficiency 40.6% **

SC = 0.8

39W GU6.5 GE Constantcolor CMH Lamp, Lumen Rating = 3400 LMS, Aromat Electronic Ballast



Angle	Mean CP	Lumens
0	1315	
5	1293	122
10	1215	
15	1075	301
20	880	
25	670	313
30	484	
35	328	211
40	204	
45	141	119
50	128	
55	125	112
60	119	
65	108	107
70	96	
75	82	87
80	70	
85	57	63
90	45	

Zonal Lumens and Percentages			
Zone	Lumens	% Lamp	%Luminaire
0-30	735	21.65	51.31
0-40	947	27.86	66.04
0-60	1177	34.64	82.11
0-90	1434	42.18	100
40-90	487	14.33	33.96
60-90	256	7.55	17.89
90-180	0	0	0
0-180	1434	42.18	100

Luminaire Summary	
Angle	Mean CD/SQ M
45	4295
55	3685
65	3179
75	2485
85	1837

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%										
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.50	.50	.50	.50	.49	.49	.47	.47	.45	.45	.42
1	.47	.45	.43	.42	.44	.41	.42	.40	.40	.39	.37
2	.43	.41	.38	.36	.40	.36	.38	.35	.37	.34	.33
3	.41	.37	.35	.32	.37	.32	.36	.32	.34	.31	.30
4	.39	.35	.32	.30	.34	.29	.33	.29	.32	.29	.28
5	.36	.32	.29	.27	.32	.27	.31	.27	.30	.26	.25
6	.34	.30	.27	.25	.30	.25	.29	.25	.28	.24	.24
7	.33	.28	.25	.23	.28	.23	.27	.23	.27	.23	.22
8	.31	.26	.24	.22	.26	.21	.26	.21	.25	.21	.21
9	.29	.25	.22	.20	.25	.20	.24	.20	.24	.20	.19
10	.28	.23	.21	.19	.23	.19	.23	.19	.23	.19	.18

Certified Test Report No. 3957FR

** Efficiency 42.2% **

SC = 0.8

Job Information **Type:**