

Ceiling Cutout: 5 3/4" (146 mm) Dia.

Ordering Information

Reflector Trim	Installation Ring	Gear Harness	Lamp Data
C4T4HWCCDPEXP Comfort Clear Diffuse, Polished Flange	C4XRM	BKT4U20 BKT4U39 BKT4U70	CDM-TC G8.5 20W (T4.5) CDM-TC G8.5 39W (T4.5) CDM-TC G8.5 70W (T4.5)

Features

- Upper Reflector:** Clear anodized aluminum, 0.040" (16-ga.). Provides wide distribution for general lighting.
- Aperture Cone:** Provides 50° visual cut-off to lamp and lamp image; self-flange in aperture-matching polished flange.
- 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 lamp alignment to optics for consistent performance.
- Installation Ring:** Cast aluminum ring is painted matte white and has two 17ga. stainless steel springs that engage in upright position during installation. One touch snap action secures ring in ceiling cutout. ORDER SEPARATELY. See separate specification sheet for details.
- Trim Retention Springs:** Rust resistant springs secure reflector/housing for quick, toolless installation (quantity of 4).
- Gear harness:** Electronic metal halide ballast with lamp socket and wiring harness. ORDER SEPARATELY. See separate specification sheet for details.

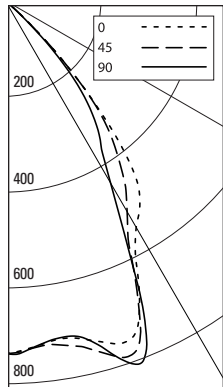


Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

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20W T4.5 G.E. 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%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
RCR	.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

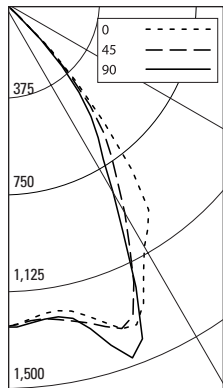
LUMINAIRE INPUT WATTS = 23

** EFFICIENCY = 55.9% **
SC(0°) = 1.1, SC(90°) = 1.0

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

39W T4 PHILIPS 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%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
RCR	.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

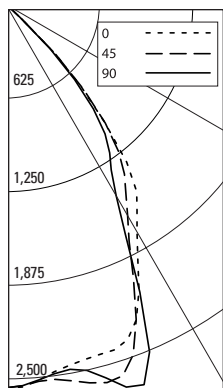
LUMINAIRE INPUT WATTS = 44

** EFFICIENCY = 52.4% **
SC(0°) = 1.3, SC(90°) = 1.1

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

70W T4 PHILIPS MH LAMP, LUMEN RATING = 6400 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH TRIM

CANDLEPOWER DISTRIBUTION



ANGLE	0°	45°	90°
0	2574	2574	2574
5	2532	2540	2531
10	2461	2567	2488
15	2434	2629	2595
20	2395	2503	2717
25	2120	2034	2134
30	1768	1642	1489
35	1539	1396	1224
40	1043	1048	924
45	479	484	430
50	46	51	49
55	10	13	13
60	5	7	7
65	1	3	2
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	83613	84756	75366
55	2124	2843	2843
65	274	964	689
75	0	0	0
85	0	0	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1930	30.16	60.41
0-40	2785	43.53	87.19
0-60	3192	49.88	99.92
0-90	3195	49.92	100
40-90	409	6.4	12.81
60-90	2	0.04	0.08
90-180	0	0	0
0-180	3195	49.92	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	.59	.59	.59	.59	.58	.58	.55	.55	.53	.53	.50
1	.57	.56	.54	.53	.55	.53	.53	.51	.51	.49	.47
2	.54	.52	.50	.49	.51	.48	.50	.47	.48	.46	.45
3	.52	.49	.47	.45	.48	.45	.47	.44	.46	.43	.42
4	.50	.46	.44	.42	.46	.41	.45	.41	.44	.41	.39
5	.47	.43	.41	.39	.43	.38	.42	.38	.41	.38	.37
6	.45	.41	.38	.36	.40	.36	.40	.36	.39	.35	.34
7	.42	.38	.35	.33	.38	.33	.37	.33	.37	.33	.32
8	.40	.36	.33	.31	.35	.31	.35	.31	.34	.30	.30
9	.38	.33	.30	.28	.33	.28	.33	.28	.32	.28	.27
10	.36	.31	.28	.26	.31	.26	.30	.26	.30	.26	.25

LUMINAIRE INPUT WATTS = 78

** EFFICIENCY = 49.9% **
SC(0°) = 1.1, SC(90°) = 1.0

CERTIFIED TEST REPORT NO. 2315FR, DATE: SEP 23, 2003
COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information Type:

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