

Ceiling Cutout: 6 9/16" (167 mm) Dia.

Reflector Trim		Frame-In Kit	Lamp		
C6T6VM	CLW	C639T6E1	Electronic 120V	39W T6	Ceramic Metal Halide
	CLP	C639T6E2	Electronic 277V	39W T6	Ceramic Metal Halide
	CCDW	C670T6E1	Electronic 120V	70W T6	Ceramic Metal Halide
	CCDP	C670T6E2	Electronic 277V	70W T6	Ceramic Metal Halide
	CCZW	C615T6E1	Electronic 120V	150W T6	Ceramic Metal Halide
	CCZP	C615T6E2	Electronic 277V	150W T6	Ceramic Metal Halide
		C615T6U	Magnetic 120V/277V	150W T6	Ceramic Metal Halide

Features

- Upper Reflector:** Clear anodized aluminum, 0.040" (16-ga.). Provides medium beam optics ideal for general lighting. Also available in narrow and wide beam, see C6T6VN and C6T6VW specification sheets.
- Aperture Cone:** Provides 50° visual cut-off to lamp and lamp image; self-flange in painted white or aperture-matching polished flange. Consult factory for other finishes.
- 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 G12 pulse rated socket. Snaps onto upper reflector for secure attachment without tools; assures proper lamp alignment to optics for consistent performance..
- Mounting Frame:** 0.048" (18-ga.) galvanized steel. Vertical adjustment mechanism accommodates mounting to virtually any ceiling system using mounting bars (provided, or 1/2" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be preset prior to installation.
- Mounting Ring:** 0.048"(18-ga.) galvanized steel. Designed for vertical adjustment from above or below for ceilings from 0" to 2" thick. Center-line notches allow consistent alignment of multiple fixtures.
- Mounting Bars:** 0.048" (18-ga.) pre-installed, telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
- Trim Retention Springs:** Rust resistant springs secure reflector/housing for quick, tool-less installation.
- Ballast / Socket Housing / Cover Assembly:** Snaps onto junction box without tools for inspection and ballast replacement, accessible from below.
- Junction Box:** 0.048" (18-ga.) galvanized steel. UL listed for 8 No. 12 AWG, 90°C through branch circuit conductors. Allows inspection from below.
- Thermal Protector:** (Not Shown) Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.

Electrical

Electronic Ballast: 120 or 277V, 50/60 Hz., encased, high power factor, T.H.D. <15%, thermally and transient protected, RMI/RFI complies with FCC Part 18 non-consumer equipment, shut-down circuit at end of lamp life, sound rating "A", -5°F (-20°F for 150W) minimum starting temperature, Type 1 outdoor rating.

Electrical (continued)

150W Magnetic Ballast: 120/277V dual voltage, 60 Hz., encased and potted, HX-HPF circuit type, high power factor, sound rating "B", -20°F minimum starting temperature, Type 1 Outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
39W MH	M130	120/277	0.39/0.17	44
70W MH	M139	120/277	0.67/0.29	78
150W MH	M142	120/277	1.40/0.60	169/166
* 150W MH	M142	120/277	3.70/1.60	180

* Magnetic Ballast

Options and Accessories

Auxiliary: Add suffix **A** to Frame-In Kit and Reflector Trim. See Spec.Sheet "A/E". For 277 electronic consult factory.

Emergency: Add suffix **E** to Reflector Trim and Frame-In Kit. See Spec. Sheet "A/E".

Slope Ceiling Adapters: See Specification Sheet SCA.

Chicago Plenum: Consult Factory.

Labels

cULus (Suitable for Damp Locations), I.B.E.W.

For 150W, install fixtures with minimum spacing; 3 feet from center-to center of adjacent luminaires, 3" from top of luminaire to overhead building member; 1 1/2 feet from luminaire center to side building member.

Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Notes:

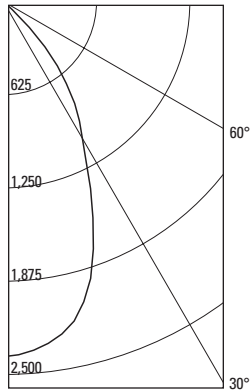
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39W T6 PHILIPS CMH LAMP, LUMEN RATING = 3400 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH TRIM

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CP	LUMENS
0	2382	
5	2347	223
10	2265	
15	2086	581
20	1766	
25	1385	648
30	1062	
35	836	518
40	566	
45	248	209
50	20	
55	3	6
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ.M
45	21039
55	301
65	5
75	19
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1452	42.71	66.44
0-40	1970	57.94	90.14
0-60	2185	64.28	99.99
0-90	2185	64.28	100
40-90	215	6.34	9.86
60-90	0	0	0.01
90-180	0	0	0
0-180	2185	64.28	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.77	.77	.77	.77	.75	.75	.72	.72	.69	.69	.64
1	.74	.72	.71	.69	.71	.68	.68	.66	.66	.64	.61
2	.71	.68	.66	.64	.67	.63	.65	.62	.63	.61	.58
3	.68	.64	.61	.59	.63	.59	.62	.58	.60	.57	.55
4	.65	.61	.58	.55	.60	.55	.59	.54	.57	.54	.52
5	.62	.57	.54	.52	.57	.51	.56	.51	.55	.50	.49
6	.59	.54	.51	.49	.54	.48	.53	.48	.52	.48	.47
7	.56	.51	.48	.45	.51	.45	.50	.45	.49	.45	.44
8	.54	.48	.45	.42	.48	.42	.47	.42	.47	.42	.41
9	.51	.46	.42	.40	.45	.40	.45	.39	.44	.39	.38
10	.49	.43	.39	.37	.43	.37	.42	.37	.42	.37	.36

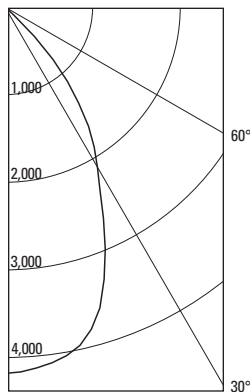
LUMINAIRE INPUT WATTS = 44

** EFFICIENCY = 64.3% **
SC = 0.9

CERTIFIED TEST REPORT NO. 2337FR, DATE: OCT 24, 2003
COMPUTED BY LSI PROGRAM **TEST-LITE**

70W T6 PHILIPS CMH LAMP, LUMEN RATING = 6600 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH TRIM

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CP	LUMENS
0	4188	
5	4141	394
10	4047	
15	3813	1062
20	3312	
25	2664	1244
30	2115	
35	1667	1031
40	1114	
45	479	408
50	32	
55	3	8
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ.M
45	40627
55	293
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	2700	40.92	65.12
0-40	3731	56.53	89.97
0-60	4147	62.84	100
0-90	4147	62.84	100
40-90	416	6.3	10.03
60-90	0	0	0
90-180	0	0	0
0-180	4147	62.84	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.76	.76	.76	.76	.74	.74	.70	.70	.67	.67	.63
1	.72	.71	.69	.68	.70	.67	.67	.65	.65	.63	.60
2	.69	.67	.65	.62	.66	.62	.63	.60	.62	.59	.57
3	.66	.63	.60	.58	.62	.57	.60	.57	.59	.56	.54
4	.64	.59	.56	.54	.59	.54	.57	.53	.56	.52	.51
5	.61	.56	.53	.50	.55	.50	.54	.50	.53	.49	.48
6	.58	.53	.50	.47	.52	.47	.51	.47	.51	.46	.45
7	.55	.50	.46	.44	.49	.44	.49	.44	.48	.43	.42
8	.53	.47	.43	.41	.46	.41	.46	.41	.45	.41	.40
9	.50	.44	.41	.38	.44	.38	.43	.38	.43	.38	.37
10	.47	.41	.38	.36	.41	.36	.41	.35	.40	.35	.34

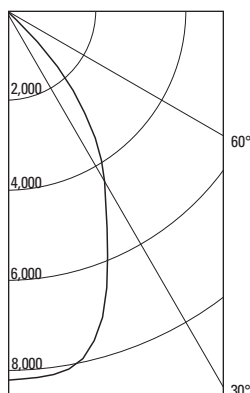
LUMINAIRE INPUT WATTS = 78

** EFFICIENCY = 62.8% **
SC = 0.9

CERTIFIED TEST REPORT NO. 2335FR, DATE: OCT 14, 2003
COMPUTED BY LSI PROGRAM **TEST-LITE**

150W T6 PHILIPS CMH LAMP, LUMEN RATING = 14000 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH TRIM

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CP	LUMENS
0	8225	
5	8192	780
10	8097	
15	7601	2116
20	6568	
25	5331	2503
30	4397	
35	3473	2148
40	2333	
45	1004	856
50	77	
55	7	20
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ.M
45	85101
55	731
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	5399	38.57	64.1
0-40	7547	53.91	89.6
0-60	8423	60.17	100
0-90	8423	60.17	100
40-90	875	6.26	10.4
60-90	0	0	0
90-180	0	0	0
0-180	8423	60.17	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL											
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.72	.72	.72	.72	.70	.70	.67	.67	.64	.64	.60
1	.69	.67	.66	.65	.66	.64	.64	.62	.61	.60	.57
2	.66	.64	.61	.60	.62	.59	.60	.58	.59	.56	.54
3	.63	.60	.57	.55	.59	.55	.58	.54	.56	.53	.51
4	.60	.56	.54	.51	.56	.51	.55	.50	.53	.50	.48
5	.58	.53	.50	.48	.53	.47	.52	.47	.51	.47	.45
6	.55	.50	.47	.45	.50	.45	.49	.44	.48	.44	.43
7	.52	.47	.44	.42	.47	.41	.46	.41	.45	.41	.40
8	.50	.44	.41	.39	.44	.39	.43	.39	.43	.38	.37
9	.47	.42	.38	.36	.41	.36	.41	.36	.40	.36	.35
10	.45	.39	.36	.34	.39	.34	.38	.33	.38	.33	.32

LUMINAIRE INPUT WATTS = 167

** EFFICIENCY = 60.2% **
SC = 0.9

CERTIFIED TEST REPORT NO. 2332FR, DATE: OCT 13, 2003
COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information **Type:**

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