

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

Reflector Trim		Frame-In Kit	Lamp		
C6P30MH CLW	Specular Clear, White Painted Flange.	C639MHE1	Electronic 120V	39W PAR30	Ceramic Metal Halide
CLP	Specular Clear, Matching Flange.	C639MHE2	Electronic 277V	39W PAR30	Ceramic Metal Halide
CCDW	Comfort Clear Diffuse, White Painted Flange.	C670MHE1	Electronic 120V	70W PAR30	Ceramic Metal Halide
CCDP	Comfort Clear Diffuse, Matching Flange.	C670MHE2	Electronic 277V	70W PAR30	Ceramic Metal Halide
CCZW	Champagne Bronze, White Painted Flange.	C639MHU	Magnetic 120V/277V	39W PAR30	Ceramic Metal Halide
CCZP	Champagne Bronze, Matching Flange.	C670MHU	Magnetic 120V/277V	70W PAR30	Ceramic Metal Halide

Features

- Reflector Trim:** Clear anodized aluminum, 0.040" (16-ga.). Provides 45° visual cut-off to lamp and lamp image; self-flange painted white or polished flange. Consult factory for other finishes.
- Socket Cup:** Galvanized steel pre-wired with medium base 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 includes pre-installed mounting bars.
- 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.
- Retention Springs:** Rust resistant springs secure reflector in place for quick, tool-less installation.
- Frame Vertical Adjustment Mechanism:** Vertical adjustment mechanism accommodates mounting to virtually any ceiling system using pre-installed mounting bars, or 1/2" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be pre-set prior to installation.
- 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.
- Ballast:** Electronic 120V or 277V. Magnetic dual voltage (120V & 277V). Accessible from below for inspection and/or replacement without tools.
- 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: 120V or 277V, 50/60 Hz., enclosed, 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 minimum starting temperature, Type 1 outdoor rating.

Electrical (cont.)

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
39W MH	M130	120/277	0.39/0.17	44
70W MH	M98/M143	120/277	0.67/0.28	78

Magnetic Ballast: 120/277V dual voltage, 60 Hz., enclosed 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	1.90/0.80	94
70W MH	M139	120/277	2.40/1.10	125

Options and Accessories

Slope Ceiling Adapters: See Specification Sheet SCA.

Fuse (magnetic ballast) **B1** Add suffix **F1** or **F2** to Frame-In Kit (F1=120V, F2=277V)

Chicago Plenum: Consult Factory.

Labels

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

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

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 We reserve the right to change details of design, materials and finish.
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LIGHTOLIER®



Calculite® HID Downlight **C6P30MH**

39W PAR30L PHILIPS FL MH LAMP, LUMEN RATING = 2200 LMS, AROMAT 39W ELECTRONIC BALLAST, CL FINISH REFLECTOR

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CP	LUMENS
0	6714	
5	6480	607
10	5770	
15	3724	1045
20	1533	
25	496	310
30	156	
35	72	62
40	93	
45	3	19
50	0	
55	0	0
60	0	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

LUMINANCE SUMMARY CD. / SQ. M.	
ANGLE	MEAN CD/SQ. M
45	195
55	0
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1962	89.22	96.05
0-40	2024	92.03	99.07
0-60	2043	92.89	100
0-90	2043	92.89	100
40-90	18	0.86	0.93
60-90	0	0	0
90-180	0	0	0
0-180	2043	92.89	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		
	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	1.11	1.11	1.11	1.11	1.08	1.08	1.03	1.03	.99	.99	.93
1	1.08	1.06	1.04	1.03	1.04	1.01	1.00	.98	.97	.95	.91
2	1.05	1.02	1.00	.98	1.00	.97	.97	.94	.95	.93	.89
3	1.02	.99	.96	.94	.97	.93	.96	.92	.93	.90	.88
4	1.00	.96	.93	.91	.95	.90	.93	.89	.92	.88	.86
5	.98	.93	.90	.88	.93	.88	.91	.87	.90	.86	.85
6	.96	.91	.88	.86	.91	.86	.90	.85	.88	.85	.83
7	.94	.89	.86	.84	.89	.83	.87	.83	.86	.83	.82
8	.92	.87	.84	.82	.86	.81	.86	.81	.85	.81	.80
9	.90	.85	.82	.80	.85	.80	.84	.80	.83	.79	.78
10	.88	.83	.80	.78	.83	.78	.82	.78	.82	.78	.77

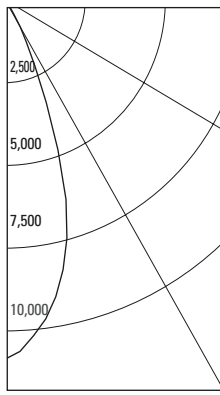
LUMINAIRE INPUT WATTS = 44

** EFFICIENCY = 92.9% **
SC = .5

CERTIFIED TEST REPORT NO. 2462FR, DATE: FEB 19, 2004.
COMPUTED BY LSI PROGRAM **TEST-LITE**

70W PAR30L PHILIPS FL MH LAMP, LUMEN RATING = 4850 LMS, AROMAT 70W ELECTRONIC BALLAST, CL FINISH REFLECTOR

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CP	LUMENS
0	10853	
5	10183	962
10	9105	
15	7452	2043
20	4818	
25	2188	1173
30	943	
35	239	260
40	233	
45	20	53
50	1	
55	0	0
60	0	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

LUMINANCE SUMMARY CD. / SQ. M.	
ANGLE	MEAN CD/SQ. M
45	1583
55	0
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	4178	86.15	93.03
0-40	4437	91.5	98.81
0-60	4491	92.6	100
0-90	4491	92.6	100
40-90	53	1.1	1.19
60-90	0	0	0
90-180	0	0	0
0-180	4491	92.6	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		
	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	1.10	1.10	1.10	1.10	1.08	1.08	1.03	1.03	.99	.99	.93
1	1.07	1.05	1.03	1.02	1.03	1.00	.99	.97	.96	.94	.90
2	1.04	1.01	.98	.96	.99	.95	.96	.93	.94	.91	.88
3	1.01	.97	.94	.92	.96	.91	.94	.90	.92	.89	.86
4	.98	.94	.91	.89	.93	.88	.91	.87	.90	.86	.84
5	.96	.91	.87	.85	.90	.85	.89	.84	.87	.83	.82
6	.94	.89	.85	.83	.88	.82	.87	.82	.86	.81	.80
7	.91	.86	.82	.80	.85	.79	.84	.79	.83	.79	.78
8	.89	.83	.80	.78	.82	.77	.82	.77	.81	.77	.76
9	.86	.81	.78	.75	.80	.75	.80	.75	.79	.74	.73
10	.84	.79	.75	.73	.78	.73	.78	.73	.77	.73	.72

LUMINAIRE INPUT WATTS = 78

** EFFICIENCY = 92.9% **
SC = .6

CERTIFIED TEST REPORT NO. 2463FR, DATE: FEB 19, 2004.
COMPUTED BY LSI PROGRAM **TEST-LITE**

LIGHTOLIER

Job Information Type: