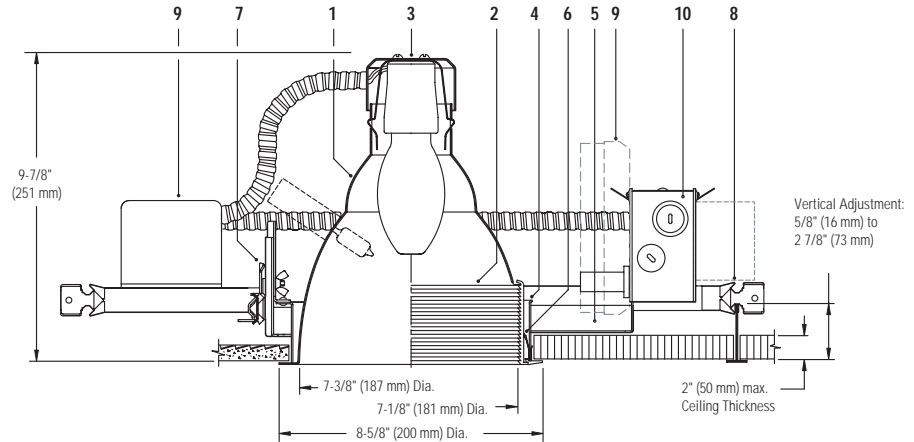
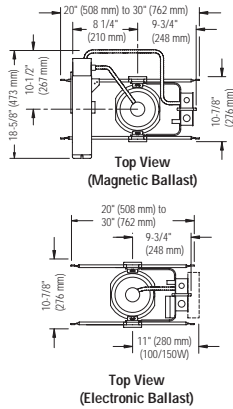




# Calculite® HID Downlight **C7E170VM**

Page 1 of 2

7" Aperture, ED17 (Open Rated), Ceramic Metal Halide, Medium Beam



Ceiling Cutout: 8" (203 mm) Dia.

Reflector Trim	Frame-In Kit	Lamp (Coated, Ceramic MH)
<b>C7E170VM CLW</b> Specular Clear, White Painted Flange.	<b>C770MH0E1</b> Electronic 120V / <b>C770MH0E2</b> Electronic 277V	70W E17, ED17, BD17 (Open Rated)
<b>CLP</b> Specular Clear, Matching Flange.	<b>C710MH0E1</b> Electronic 120V / <b>C710MH0E2</b> Electronic 277V	100W E17, ED17, BD17 (Open Rated)
<b>CCDW</b> Comfort Clear Diffuse, White Painted Flange.	<b>C715MH0E1</b> Electronic 120V / <b>C715MH0E2</b> Electronic 277V	150W E17, ED17, BD17 (Open Rated)
<b>CCDP</b> Comfort Clear Diffuse, Matching Flange.	<b>C770MH0U</b> Magnetic 120V/277V	70W E17, ED17, BD17 (Open Rated)
<b>CCZW</b> Champagne Bronze, White Painted Flange.	<b>C710MH0U</b> Magnetic 120V/277V	100W E17, ED17, BD17 (Open Rated)
<b>CCZP</b> Champagne Bronze, Matching Flange.	<b>C715MH0U</b> Magnetic 120V/277V	150W E17, ED17, BD17 (Open Rated)
<b>MG</b> Black Multi-Groove, White Trim Ring		

## Features

- Reflector:** Clear anodized aluminum, 0.040" (16-ga.). Provides wide beam distribution. 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.
- Multi-Groove Baffle:** One piece seamless aluminum. Sharply detailed concentric rings, black finish. Permanently fastened to specular clear reflector.
- Socket Housing:** Galvanized steel, pre-wired with medium base pulse rated socket. Snaps onto upper reflector for secure attachment without tools; unitized construction assures proper lamp position for consistent performance.
- 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 Frame:** 0.048" (18-ga.) Galvanized steel includes pre-installed mounting bars.
- 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; 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
70W MH	M98/M139	120/277	0.67/0.29	78
100W MH	M90/M140	120/277	0.90/0.43	110
150W MH	M102	120/277	1.40/0.61	167

**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
70W MH	M98/M143	120/277	1.90/0.80	94
100W MH	M90/M140	120/277	2.40/1.10	125
150W MH	M102	120/277	3.70/1.60	180

## Options and Accessories

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

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

**Slope Ceiling Adapters:** See Specification Sheet SCA.

**Fuse:** 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. For 150W, install fixtures with minimum spacing: 3 feet from center-to-center of adjacent luminaires; 3 inch 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:	

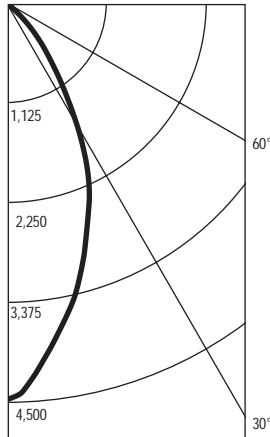
Lightolier a Genlyte Thomas Company [www.lightolier.com](http://www.lightolier.com)  
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710  
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**LIGHTOLIER®**



# Calculite® HID Downlight C7E170VM

**70W ED17- PHILIPS CMH OPEN RATED LAMP-3K, LUMEN RATING = 5700 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH REFLECTOR TRIM**



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	4470	392	45	16615
5	4140		55	435
10	3669	902	65	28
15	3195		75	0
20	2664	999	85	0
25	2189			
30	1590	677		
35	1037			
40	648	262		
45	334			
50	38	12		
55	7			
60	1	0		
65	0	0		
70	0	0		
75	0	0		
80	0	0		
85	0	0		
90	0	0		

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2292	40.22	70.66
0-40	2969	52.1	91.53
0-60	3243	56.91	99.99
0-90	3244	56.92	100
40-90	274	4.82	8.47
60-90	0	0.01	0.01
90-180	0	0	0
0-180	3244	56.92	100

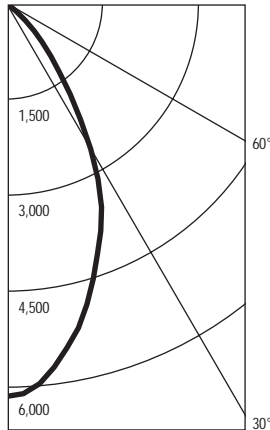
Coefficients of Utilization											
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.68	.68	.68	.68	.66	.66	.63	.63	.61	.61	.57
1	.65	.64	.63	.61	.63	.60	.60	.59	.58	.57	.54
2	.63	.60	.58	.57	.59	.56	.57	.55	.56	.54	.52
3	.60	.57	.55	.53	.56	.53	.55	.52	.54	.51	.49
4	.58	.54	.52	.50	.54	.49	.52	.49	.51	.48	.47
5	.55	.51	.49	.47	.51	.46	.50	.46	.49	.46	.44
6	.53	.49	.46	.44	.48	.44	.48	.44	.47	.43	.42
7	.51	.46	.43	.41	.46	.41	.45	.41	.45	.41	.40
8	.49	.44	.41	.39	.43	.39	.43	.39	.42	.39	.38
9	.46	.42	.39	.37	.41	.37	.41	.36	.40	.36	.35
10	.44	.39	.37	.34	.39	.34	.39	.34	.38	.34	.34

LUMINAIRE INPUT WATTS = 78

\*\* EFFICIENCY = 56.9% \*\*  
SC = .7

CERTIFIED TEST REPORT NO. 2394FR, DATE: FEB 10, 2004  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

**100W ED17- PHILIPS CMH OPEN RATED LAMP-3K, LUMEN RATING = 8500 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH REFLECTOR TRIM**



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	6144	562	45	30624
5	5968		55	1340
10	5465	1372	65	0
15	4868		75	0
20	4164	1602	85	0
25	3520			
30	2639	1130		
35	1739			
40	1080	485		
45	615			
50	197	55		
55	22			
60	5	1		
65	0	0		
70	0	0		
75	0	0		
80	0	0		
85	0	0		
90	0	0		

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3536	41.6	67.9
0-40	4666	54.9	89.6
0-60	5206	61.25	99.98
0-90	5207	61.27	100
40-90	541	6.37	10.4
60-90	1	0.01	0.02
90-180	0	0	0
0-180	5207	61.27	100

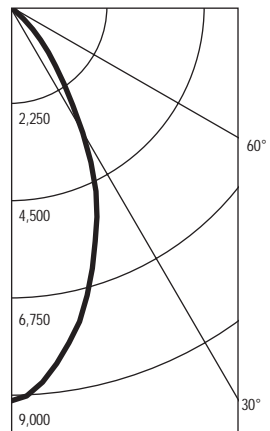
Coefficients of Utilization											
CEILING	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.73	.73	.73	.73	.71	.71	.68	.68	.65	.65	.61
1	.70	.68	.67	.66	.67	.65	.65	.63	.62	.61	.58
2	.67	.65	.63	.61	.64	.60	.62	.59	.60	.58	.55
3	.64	.61	.58	.56	.60	.56	.59	.55	.57	.54	.53
4	.62	.58	.55	.53	.57	.52	.56	.52	.55	.51	.50
5	.59	.55	.51	.49	.54	.49	.53	.49	.52	.48	.47
6	.57	.52	.49	.46	.51	.46	.50	.46	.50	.46	.45
7	.54	.49	.46	.43	.49	.43	.48	.43	.47	.43	.42
8	.52	.46	.43	.41	.46	.41	.45	.40	.45	.40	.39
9	.49	.44	.40	.38	.43	.38	.43	.38	.42	.38	.37
10	.47	.41	.38	.36	.41	.36	.40	.36	.40	.35	.35

LUMINAIRE INPUT WATTS = 110

\*\* EFFICIENCY = 61.3% \*\*  
SC = .8

CERTIFIED TEST REPORT NO. 2396FR, DATE: FEB 10, 2004  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

**150W ED17- PHILIPS CMH OPEN RATED LAMP-3K, LUMEN RATING = 11900 LMS, ELECTRONIC AROMAT BALLAST, CL FINISH REFLECTOR TRIM**



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ M
0	9142	824	45	37764
5	8732		55	1454
10	7907	1952	65	66
15	6927		75	0
20	5787	2155	85	0
25	4726			
30	3385	1440		
35	2193			
40	1397	594		
45	758			
50	152	47		
55	24			
60	9	3		
65	1	0		
70	0	0		
75	0	0		
80	0	0		
85	0	0		
90	0	0		

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	4930	41.44	70.3
0-40	6370	53.54	90.83
0-60	7011	58.92	99.96
0-90	7013	58.94	100
40-90	642	5.4	9.17
60-90	2	0.02	0.04
90-180	0	0	0
0-180	7013	58.94	100

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

LUMINAIRE INPUT WATTS = 167

\*\* EFFICIENCY = 58.9% \*\*  
SC = .8

CERTIFIED TEST REPORT NO. 2395FR, DATE: FEB 10, 2004  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

Job Information Type:

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