

Ceiling Cutout: 10 1/16" (256mm) Dia.

Reflector Trim		Frame-In Kit	Lamp (Coated)
C9E28VW	CLW Specular Clear, White Painted Flange.	C917MHPSU Magnetic Pulse Start, 120V/277V	175W ED28, BT28 (Enclosed), PS MH
	CLP Specular Clear, Matching Flange.	C925MHPSU Magnetic Pulse Start, 120V/277V	250W ED28, BT28 (Enclosed), PS MH
	CCDW Comfort Clear Diffuse, White Painted Flange.	C917MHU Magnetic, 120V/277V	175W ED28, BT28 (Enclosed), MH
	CCDP Comfort Clear Diffuse, Matching Flange.	C925MHU Magnetic, 120V/277V	250W ED28, BT28 (Enclosed), MH
	CCZW Champagne Bronze, White Painted Flange.		
	CCZP Champagne Bronze, Matching Flange.		

Features

- Upper Reflector:** Clear anodized aluminum, 0.040" (16-ga.). Provides narrowbeam optics. Also available in narrow and medium beam, see C9E28VN specification sheets.
- Aperture Cone:** Specular Clear low iridescence finish. Low brightness with 40° cut-off to lamp and lamp image. Self-flanged with 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.
- Socket Cup:** Heat dissipating, die-cast aluminum, pre-wired with mogul base porcelain socket with nickel plated screw shell. Postive locking attachment without tools to reflector assures proper optical alignment of lamp.
- 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 cone for quick, tool-less installation.
- Frame Vertical Adjustment:** 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 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 Assembly:** Ballast and mounting plate on mounting bars secured with thumb screw. Ballast assembly is accessible from below without tools for inspection and replacement.
- 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

Magnetic Ballast: 120/277V dual voltage, 60 Hz., encased and potted, CWA or Super CWA (pulse start) circuit type, high power factor, sound rating "B" (175W and 250W PS)/sound rating "C" (others), -20°F minimum starting Temperature, Type 1 Outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
175W PS MH	M137	120/277	2.20/0.90	205
250W PS MH	M138	120/277	2.80/1.20	290
175W MH	M57	120/277	2.00/0.90	205
250W MH	M58	120/277	2.60/1.10	290

Options and Accessories

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

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

Slope Ceiling Adapters: See Specification Sheet SCA.

Fuse (magnetic ballast): 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.

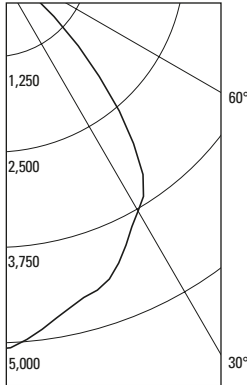
Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	



Calculite® HID Downlight C9E28VW

175W ED28 G.E. MH COATED LAMP, LUMEN RATING = 12900 LMS, ADVANCE MAGNETIC BALLAST, CL FINISH TRIM

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CP	LUMENS
0	5084	
5	4974	472
10	4744	
15	4560	1296
20	4430	
25	4102	1899
30	3781	
35	3410	2067
40	2559	
45	1567	1207
50	542	
55	55	147
60	2	
65	0	1
70	0	
75	0	0
80	0	
85	0	0
90	0	

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	54182
55	2330
65	0
75	0
85	00

Coefficients of Utilization

CEILING	80%		70%		50%		30%		0		
	70	50	30	10	50	10	50	10			
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
RCR											
0	.65	.65	.65	.65	.64	.64	.61	.61	.58	.58	.55
1	.62	.61	.60	.58	.60	.57	.57	.56	.55	.54	.51
2	.59	.57	.55	.53	.56	.52	.54	.51	.53	.50	.48
3	.56	.53	.50	.48	.52	.48	.51	.47	.49	.46	.45
4	.54	.49	.46	.44	.49	.44	.48	.43	.47	.43	.42
5	.51	.46	.43	.40	.45	.40	.44	.40	.44	.39	.38
6	.48	.43	.40	.37	.42	.37	.42	.37	.41	.36	.35
7	.45	.40	.36	.34	.39	.34	.39	.34	.38	.33	.32
8	.42	.37	.33	.31	.36	.31	.36	.31	.35	.31	.30
9	.40	.34	.30	.28	.34	.28	.33	.28	.33	.28	.27
10	.37	.31	.28	.25	.31	.25	.31	.25	.30	.25	.24

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3667	28.43	51.74
0-40	5734	44.45	80.9
0-60	7087	54.95	99.99
0-90	7088	54.95	100.00
40-90	1353	10.5	19.1
60-90	0	0	0.01
90-180	0	0	0
0-180	7088	54.95	100.00

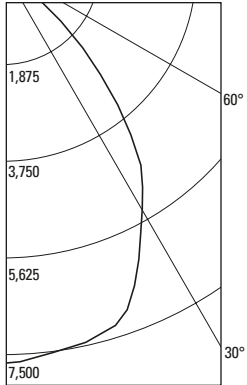
LUMINAIRE INPUT WATTS = 205

** EFFICIENCY = 54.9% **
SC = 1.1

CERTIFIED TEST REPORT NO. 2474FR, DATE: FEB 20, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

250W ED28 PHILIPS MH COATED LAMP. LUMEN RATING = 19475 LMS, UNIVERSAL MAGNETIC BALLAST, CL FINISH TRIM

CANDLEPOWER DISTRIBUTION



ANGLE	MEAN CP	LUMENS
0	7668	
5	7576	723
10	7473	
15	7346	2071
20	7055	
25	6243	2887
30	5410	
35	4670	2861
40	3470	
45	2195	1667
50	753	
55	68	201
60	9	
65	3	4
70	0	
75	0	0
80	0	
85	0	0
90	0	

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	75909
55	2904
65	169
75	0
85	0

Coefficients of Utilization

CEILING	80%		70%		50%		30%		0		
	70	50	30	10	50	10	50	10			
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
RCR											
0	.64	.64	.64	.64	.62	.62	.59	.59	.57	.57	.53
1	.61	.59	.58	.57	.58	.56	.56	.54	.54	.53	.50
2	.58	.56	.53	.52	.55	.51	.53	.50	.51	.49	.47
3	.55	.52	.49	.47	.51	.47	.50	.46	.48	.45	.44
4	.52	.48	.46	.43	.48	.43	.47	.43	.46	.42	.41
5	.50	.45	.42	.40	.45	.40	.44	.39	.43	.39	.38
6	.47	.42	.39	.37	.42	.37	.41	.36	.40	.36	.35
7	.44	.39	.36	.34	.39	.34	.38	.33	.37	.33	.32
8	.42	.36	.33	.31	.36	.31	.36	.31	.35	.31	.30
9	.39	.34	.31	.28	.33	.28	.33	.28	.33	.28	.27
10	.37	.31	.28	.26	.31	.26	.31	.26	.30	.26	.25

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	5680	29.17	54.55
0-40	8542	43.86	82.02
0-60	10411	53.46	99.96
0-90	10414	53.48	100
40-90	1872	9.62	17.98
60-90	3	0.02	0.04
90-180	0	0	0
0-180	10414	53.48	100

LUMINAIRE INPUT WATTS = 290

** EFFICIENCY = 53.5% **
SC = 1.1

CERTIFIED TEST REPORT NO. 2472FR, DATE: FEB 20, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information Type: