

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

| Reflector Trim | | | Frame-In Kit | Lamp (Coated) | |
|----------------|------|--|--------------|---------------------------------|-----------------------------------|
| C9E28VN | 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 narrow beam optics. Also available in wide beam, see C9E28VW specification sheets.
- Aperture Cone:** Low brightness with 40° cut-off to lamp and lamp image. Self-flanged 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 bar.
- 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.
- Trim 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, 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 |
|------------|-----------|---------|-----------|-------------|
| 175W PS MH | M137/M152 | 120/277 | 2.20/0.90 | 205 |
| 250W PS MH | M138/M153 | 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 Lamp: 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: | |



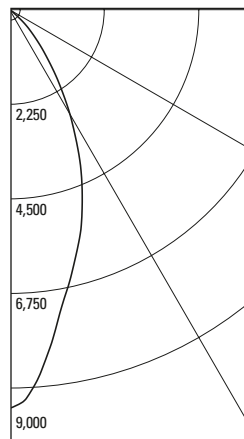
Calculite® HID Downlight C9E28VN

Page 2 of 2

9" Aperture, ED28 (Enclosed), Metal Halide, Narrow Beam

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

CANDLEPOWER DISTRIBUTION



| ANGLE | MEAN CP | LUMENS |
|-------|---------|--------|
| 0 | 9482 | |
| 5 | 8632 | 809 |
| 10 | 7160 | |
| 15 | 6075 | 1726 |
| 20 | 5041 | |
| 25 | 3948 | 1829 |
| 30 | 2866 | |
| 35 | 1919 | 1239 |
| 40 | 1185 | |
| 45 | 666 | 530 |
| 50 | 218 | |
| 55 | 23 | 60 |
| 60 | 3 | |
| 65 | 1 | 1 |
| 70 | 0 | |
| 75 | 0 | 0 |
| 80 | 0 | |
| 85 | 0 | 0 |
| 90 | 0 | |

LUMINANCE SUMMARY CD. / SQ. M.

| ANGLE | MEAN CD/SQ. M. |
|-------|----------------|
| 45 | 23031 |
| 55 | 988 |
| 65 | 78 |
| 75 | 32 |
| 85 | 0 |

ZONAL LUMENS AND PERCENTAGES

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|--------|--------|--------|-------------|
| 0-30 | 4363 | 33.82 | 70.45 |
| 0-40 | 5602 | 43.43 | 90.45 |
| 0-60 | 6191 | 48 | 99.97 |
| 0-90 | 6193 | 48.01 | 100.00 |
| 40-90 | 591 | 4.58 | 9.55 |
| 60-90 | 1 | 0.01 | 0.03 |
| 90-180 | 0 | 0 | 0 |
| 0-180 | 6193 | 48.01 | 100.00 |

Coefficients of Utilization

| CEILING | 80% | | | | 70% | | | | 50% | | | | 30% | | | |
|---------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|
| | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 |
| WALL | | | | | | | | | | | | | | | | |
| RCR | Zonal Cavity Method - Effective Floor Cavity Reflectance = 20% | | | | | | | | | | | | | | | |
| 0 | .57 | .57 | .57 | .57 | .56 | .56 | .53 | .53 | .51 | .51 | .48 | | | | | |
| 1 | .55 | .54 | .53 | .52 | .53 | .51 | .51 | .49 | .49 | .48 | .46 | | | | | |
| 2 | .53 | .51 | .49 | .48 | .50 | .47 | .48 | .46 | .47 | .45 | .44 | | | | | |
| 3 | .51 | .48 | .46 | .45 | .47 | .44 | .46 | .44 | .45 | .43 | .42 | | | | | |
| 4 | .49 | .46 | .44 | .42 | .45 | .42 | .44 | .41 | .43 | .41 | .40 | | | | | |
| 5 | .47 | .43 | .41 | .39 | .43 | .39 | .42 | .39 | .41 | .38 | .37 | | | | | |
| 6 | .45 | .41 | .39 | .37 | .41 | .37 | .40 | .37 | .40 | .36 | .36 | | | | | |
| 7 | .43 | .39 | .37 | .35 | .39 | .35 | .38 | .35 | .38 | .34 | .34 | | | | | |
| 8 | .41 | .37 | .35 | .33 | .37 | .33 | .36 | .33 | .36 | .32 | .32 | | | | | |
| 9 | .39 | .35 | .33 | .31 | .35 | .31 | .34 | .31 | .34 | .31 | .30 | | | | | |
| 10 | .37 | .33 | .31 | .29 | .33 | .29 | .33 | .29 | .32 | .29 | .28 | | | | | |

LUMINAIRE INPUT WATTS = 205

** EFFICIENCY = 48.0% **

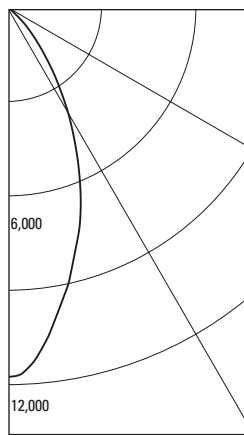
CERTIFIED TEST REPORT NO. 2450FR, DATE: FEB 12, 2004

SC = .6

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 | 11750 | |
| 5 | 11130 | 1042 |
| 10 | 9674 | |
| 15 | 8222 | 2335 |
| 20 | 6835 | |
| 25 | 5292 | 2464 |
| 30 | 3878 | |
| 35 | 2612 | 1680 |
| 40 | 1598 | |
| 45 | 900 | 716 |
| 50 | 299 | |
| 55 | 23 | 77 |
| 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 | 31142 |
| 55 | 999 |
| 65 | 0 |
| 75 | 0 |
| 85 | 0 |

ZONAL LUMENS AND PERCENTAGES

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|--------|--------|--------|-------------|
| 0-30 | 5842 | 30 | 70.25 |
| 0-40 | 7522 | 38.63 | 90.46 |
| 0-60 | 8315 | 42.7 | 100 |
| 0-90 | 8315 | 42.7 | 100 |
| 40-90 | 793 | 4.07 | 9.54 |
| 60-90 | 0 | 0 | 0 |
| 90-180 | 0 | 0 | 0 |
| 0-180 | 8315 | 42.7 | 100 |

Coefficients of Utilization

| CEILING | 80% | | | | 70% | | | | 50% | | | | 30% | | | |
|---------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|
| | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 |
| WALL | | | | | | | | | | | | | | | | |
| RCR | Zonal Cavity Method - Effective Floor Cavity Reflectance = 20% | | | | | | | | | | | | | | | |
| 0 | .51 | .51 | .51 | .51 | .50 | .50 | .47 | .47 | .45 | .45 | .43 | | | | | |
| 1 | .49 | .48 | .47 | .46 | .47 | .45 | .45 | .44 | .44 | .43 | .41 | | | | | |
| 2 | .47 | .45 | .44 | .43 | .44 | .42 | .43 | .41 | .42 | .40 | .39 | | | | | |
| 3 | .45 | .43 | .41 | .40 | .42 | .39 | .41 | .39 | .40 | .38 | .37 | | | | | |
| 4 | .43 | .41 | .39 | .37 | .40 | .37 | .39 | .37 | .38 | .36 | .35 | | | | | |
| 5 | .41 | .39 | .36 | .35 | .38 | .35 | .37 | .34 | .37 | .34 | .33 | | | | | |
| 6 | .40 | .37 | .34 | .33 | .36 | .33 | .36 | .33 | .35 | .32 | .32 | | | | | |
| 7 | .38 | .35 | .32 | .31 | .34 | .31 | .34 | .31 | .33 | .30 | .30 | | | | | |
| 8 | .36 | .33 | .31 | .29 | .32 | .29 | .32 | .29 | .32 | .29 | .28 | | | | | |
| 9 | .35 | .31 | .29 | .27 | .31 | .27 | .30 | .27 | .30 | .27 | .27 | | | | | |
| 10 | .33 | .30 | .27 | .26 | .29 | .26 | .29 | .26 | .29 | .26 | .25 | | | | | |

LUMINAIRE INPUT WATTS = 290

** EFFICIENCY = 42.7% **

CERTIFIED TEST REPORT NO. 2460FR DATE: FEB 19, 2004

SC = .7

COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information

Type:

Lightolier a Genlyte Thomas Company www.lightolier.com

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

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