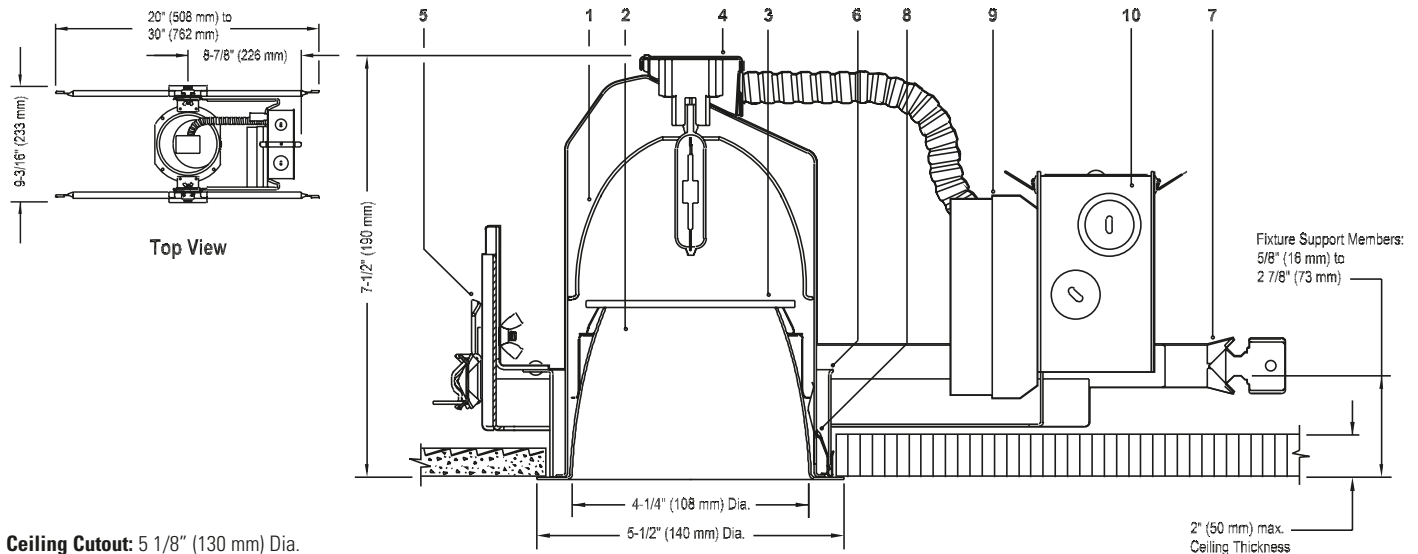




Ceiling Cutout: 5 1/8" (130 mm) Dia.

| Reflector Trim |      |                                              | Frame-In Kit |                 | Lamp     |                      |
|----------------|------|----------------------------------------------|--------------|-----------------|----------|----------------------|
| C4T4VW         | CLW  | Specular Clear, White Painted Flange.        | C420T4E1     | Electronic 120V | 20W T4.5 | Ceramic Metal Halide |
|                | CLP  | Specular Clear, Matching Flange.             | C420T4E2     | Electronic 277V | 20W T4.5 | Ceramic Metal Halide |
|                | CCDW | Comfort Clear Diffuse, White Painted Flange. | C439T4E1     | Electronic 120V | 39W T4.5 | Ceramic Metal Halide |
|                | CCDP | Comfort Clear Diffuse, Matching Flange.      | C439T4E2     | Electronic 277V | 39W T4.5 | Ceramic Metal Halide |
|                | CCZW | Champagne Bronze, White Painted Flange.      | C470T4E1     | Electronic 120V | 70W T4.5 | Ceramic Metal Halide |
|                | CCZP | Champagne Bronze, Matching Flange.           | C470T4E2     | Electronic 277V | 70W T4.5 | Ceramic Metal Halide |

## Features

- Upper Reflector:** Clear anodized aluminum, 0.040" (16-ga.). Provides wide beam optics ideal for general lighting. Also available in narrow and medium beam, see C4T4VN and C4T4VM 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 G8.5 pulse rated socket. Snaps onto upper reflector for secure attachment without tools; unitized construction 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., enclosed, high power factor, T.H.D. <15%, thermally and transient protected, RMI/RFI complies with FCC Part 18 non-consumer limits, shut-down circuit at end of lamp life, sound rating "A", -5°F minimum starting temperature, Type 1 Outdoor rating.

| Ballast | ANSI Code | Voltage | Max. Amps | Input Watts |
|---------|-----------|---------|-----------|-------------|
| 20W MH  | M156      | 120/277 | 0.21/0.10 | 23          |
| 39W MH  | M130      | 120/277 | 0.39/0.17 | 44          |
| 70W MH  | M139      | 120/277 | 0.67/0.29 | 78          |

## Options and Accessories

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

**Chicago Plenum:** Consult Factory.

## Labels

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

For 70W, install fixtures with minimum spacing between:

- Center-to center of adjacent luminaires: 2 feet.
- Top of luminaire to overhead building member: 1/2 inch.
- Luminaire center to side building member: 1 foot.

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



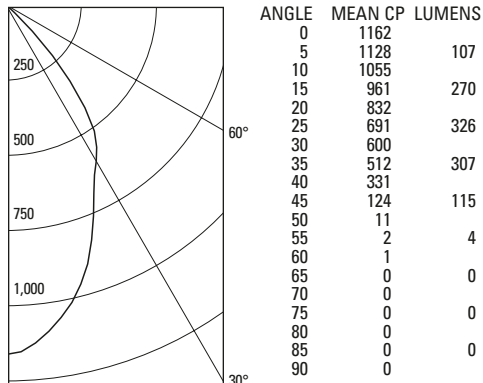
# Calculite® HID Downlight **C4T4VW**

Page 2 of 2

4 1/2" Aperture, 2pc Vertical, T4.5 Wide Beam

**20W T4, GE CMH LAMP, LUMEN RATING = 1700 LMS, AROMAT 20W ELECTRONIC BALLAST, CL FINISH TRIM**

## CANDLEPOWER DISTRIBUTION



## LUMINANCE SUMMARY CD. / SQ. M.

| ANGLE | MEAN CD/SQ M |
|-------|--------------|
| 45    | 17204        |
| 55    | 370          |
| 65    | 13           |
| 75    | 0            |
| 85    | 0            |

## 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       | .79                                                            | .79 | .79 | .79 | .77 | .77 | .74 | .74 | .71 | .71 | .67 |    |     |    |    |    |
| 1       | .76                                                            | .74 | .73 | .72 | .73 | .70 | .70 | .68 | .68 | .66 | .63 |    |     |    |    |    |
| 2       | .73                                                            | .70 | .68 | .66 | .69 | .65 | .67 | .63 | .65 | .62 | .60 |    |     |    |    |    |
| 3       | .69                                                            | .66 | .63 | .60 | .65 | .60 | .63 | .59 | .62 | .58 | .56 |    |     |    |    |    |
| 4       | .66                                                            | .62 | .59 | .56 | .61 | .56 | .60 | .55 | .59 | .55 | .53 |    |     |    |    |    |
| 5       | .63                                                            | .58 | .55 | .52 | .58 | .52 | .56 | .52 | .55 | .51 | .50 |    |     |    |    |    |
| 6       | .60                                                            | .55 | .51 | .49 | .55 | .49 | .54 | .48 | .53 | .48 | .47 |    |     |    |    |    |
| 7       | .57                                                            | .52 | .48 | .46 | .51 | .45 | .50 | .45 | .50 | .45 | .44 |    |     |    |    |    |
| 8       | .55                                                            | .48 | .45 | .42 | .48 | .42 | .47 | .42 | .47 | .42 | .41 |    |     |    |    |    |
| 9       | .52                                                            | .46 | .42 | .39 | .45 | .39 | .44 | .39 | .44 | .39 | .38 |    |     |    |    |    |
| 10      | .49                                                            | .43 | .39 | .36 | .42 | .36 |     |     |     |     |     |    |     |    |    |    |

LUMINAIRE INPUT WATTS = 23

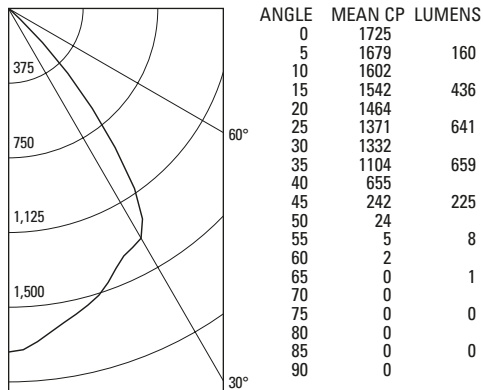
\*\* EFFICIENCY = 66.4% \*\*

CERTIFIED TEST REPORT NO. 2318FR, DATE: SEP 28, 2003  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

SC = .9

**39W T4, PHILIPS CMH LAMP, LUMEN RATING = 3300 LMS, AROMAT 39W ELECTRONIC BALLAST, CL FINISH TRIM**

## CANDLEPOWER DISTRIBUTION



## LUMINANCE SUMMARY CD. / SQ. M.

| ANGLE | MEAN CD/SQ M |
|-------|--------------|
| 45    | 33540        |
| 55    | 928          |
| 65    | 78           |
| 75    | 0            |
| 85    | 0            |

## 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       | .77                                                            | .77 | .77 | .77 | .75 | .75 | .72 | .72 | .69 | .69 | .65 |    |     |    |    |    |
| 1       | .74                                                            | .72 | .71 | .69 | .71 | .68 | .68 | .66 | .66 | .64 | .61 |    |     |    |    |    |
| 2       | .70                                                            | .68 | .65 | .63 | .66 | .62 | .64 | .61 | .63 | .60 | .58 |    |     |    |    |    |
| 3       | .67                                                            | .63 | .60 | .58 | .62 | .58 | .61 | .57 | .59 | .56 | .54 |    |     |    |    |    |
| 4       | .64                                                            | .59 | .56 | .54 | .59 | .53 | .57 | .53 | .56 | .52 | .51 |    |     |    |    |    |
| 5       | .61                                                            | .56 | .52 | .49 | .55 | .49 | .54 | .49 | .53 | .48 | .47 |    |     |    |    |    |
| 6       | .58                                                            | .52 | .49 | .46 | .52 | .46 | .51 | .46 | .50 | .45 | .44 |    |     |    |    |    |
| 7       | .55                                                            | .49 | .45 | .43 | .48 | .42 | .48 | .42 | .47 | .42 | .41 |    |     |    |    |    |
| 8       | .52                                                            | .46 | .42 | .39 | .45 | .39 | .44 | .39 | .44 | .39 | .38 |    |     |    |    |    |
| 9       | .49                                                            | .42 | .39 | .36 | .42 | .36 | .41 | .36 | .41 | .36 | .35 |    |     |    |    |    |
| 10      | .46                                                            | .40 | .36 | .33 | .39 | .33 | .39 | .33 | .38 | .33 | .32 |    |     |    |    |    |

LUMINAIRE INPUT WATTS = 44

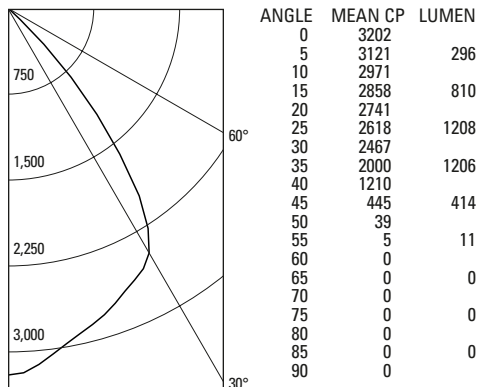
\*\* EFFICIENCY = 64.5% \*\*

CERTIFIED TEST REPORT NO. 2317FR, DATE: SEP 27, 2003  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

SC = 1.1

**70W T4, PHILIPS CMH LAMP, LUMEN RATING = 6400 LMS, AROMAT 70W ELECTRONIC BALLAST, CL FINISH TRIM**

## CANDLEPOWER DISTRIBUTION



## LUMINANCE SUMMARY CD. / SQ. M.

| ANGLE | MEAN CD/SQ M |
|-------|--------------|
| 45    | 61531        |
| 55    | 806          |
| 65    | 0            |
| 75    | 0            |
| 85    | 0            |

## 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       | .74                                                            | .74 | .74 | .74 | .72 | .72 | .69 | .69 | .66 | .66 | .62 |    |     |    |    |    |
| 1       | .71                                                            | .69 | .68 | .66 | .68 | .65 | .65 | .63 | .63 | .61 | .58 |    |     |    |    |    |
| 2       | .67                                                            | .65 | .63 | .60 | .64 | .60 | .62 | .59 | .60 | .57 | .55 |    |     |    |    |    |
| 3       | .64                                                            | .61 | .58 | .56 | .60 | .55 | .58 | .54 | .57 | .53 | .52 |    |     |    |    |    |
| 4       | .61                                                            | .57 | .54 | .51 | .56 | .51 | .55 | .51 | .54 | .50 | .49 |    |     |    |    |    |
| 5       | .58                                                            | .53 | .50 | .47 | .53 | .47 | .52 | .47 | .51 | .46 | .45 |    |     |    |    |    |
| 6       | .55                                                            | .50 | .47 | .44 | .50 | .44 | .49 | .44 | .48 | .43 | .42 |    |     |    |    |    |
| 7       | .52                                                            | .47 | .43 | .41 | .47 | .41 | .46 | .41 | .45 | .40 | .39 |    |     |    |    |    |
| 8       | .50                                                            | .44 | .40 | .38 | .43 | .38 | .43 | .37 | .42 | .37 | .36 |    |     |    |    |    |
| 9       | .47                                                            | .41 | .37 | .35 | .40 | .35 | .40 | .34 | .39 | .34 | .33 |    |     |    |    |    |
| 10      | .44                                                            | .38 | .34 | .32 | .38 | .32 | .37 | .32 | .37 | .32 | .31 |    |     |    |    |    |

LUMINAIRE INPUT WATTS = 78

\*\* EFFICIENCY = 61.6% \*\*

CERTIFIED TEST REPORT NO. 2316FR, DATE: SEP 27, 2003  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

SC = 1.1

Job Information

Type:

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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