

Project

Type



Date

Product Code

Designer

CHP WAFER SQUARE/3 AA

recessed shallow Chicago Plenum LED accent light

FULLY SUSTAINABLE - FULLY SUSTAINABLE - FULLY SUSTAINABLE - FULLY SUSTAINABLE - FULLY SUSTAINABLE - FULLY SUSTAINABLE - FULLY SUSTAINABLE



FEATURES

- **CHP WAFER SQUARE/3 AA is a 3" aperture LED accent light** designed for use in a Chicago Plenum ceiling. **Recess depth is only 4 3/4"** (housing depth of 3 3/4" plus a 1" throat).
- **Luminaire is powered by Cree chip-on-board LED's** providing CRI's of 80+ and 90+. See tables below for wattages and efficacies.
- **Luminaire provides 365° rotation and 0°-30° angular adjustment.** Once focused, adjustment may be locked by a lever and a thumb nut.
- **Luminaire employs an internal 'twist and lock' lens** to produce an initial beam-spread of either 12°, 20° or 36°. To allow beamspread to be changed in installed luminaires, internal lenses are available as accessories.
- **Luminaire may be ordered with its external reflector capped** with a clear glass (-GLS) for maximum efficacy or a prismatic lens (-PRS) to widen beam distribution.
- **Luminaire accepts one of a number of [Optical Accessories](#)** including lenses and color filters.
- **External [reflectors](#) are available in four colors:** a slightly diffuse clear natural aluminum (-VOL), champagne gold (-GOL), white (-WOL) or black (-BOL). Other finishes are available on special order.
- **Fixture includes a pair of mounting bars** (3/4" x 27" C channel). Specialty bars for wood and T-bar installations are also available.
- **For more information, [click here](#).**

APPLICATIONS

Luminaire is listed as an inherently protected luminaire for Damp Location and is additionally listed for City of Chicago Environmental Air (CCEA). Luminaire is RoHS compliant and is suitable for use in a fire rated ceiling. Removal of the external reflector allows access to the LED module, driver and junction box.

OPTICAL ACCESSORIES *Specify as separate line*

All are 2 3/4" (70mm) diameter. Lenses and filters are glass; screens are aluminum.

| | |
|----------------------------------|-----------------|
| diffuse glass | DGS/2.375 |
| prismatic lens (Solite) | PLS/2.375 |
| 55° spread lens | LENS/2.375 |
| 40° x 70° spread lens | LENS/2.375-4070 |
| beam smoother | CLR/2.375 |
| 33% light reduction screen | SCR33/2.375 |
| 50% light reduction screen | SCR50/2.375 |
| color filters | |
| surprise pink | PNK/2.375 |
| daylight blue | DAY/2.375 |
| amber | AMB/2.375 |
| blue | BLU/2.375 |
| green | GRN/2.375 |
| red | RED/2.375 |

PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

| | |
|---|----------------------------|
| Basic Unit | WS3CHP-CLT-AA |
| Internal Lens <i>Choose one.</i> | |
| 12° initial beamspread | - 12D |
| 20° initial beamspread | - 20D |
| 36° initial beamspread | - 36D |
| Light Source Output (Lumens) | |
| 800 lumens / CRI 90+ | 4000K not available - L08H |
| 1000 lumens | 4000K not available - L10H |
| 1200 lumens | 4000K not available - L12H |
| 1000 lumens / CRI 80+ | - L10S |
| 1200 lumens | - L12S |
| 1500 lumens | - L15S |
| Driver | |
| dimmable to 1% by a 0-10V dimmer on 120 Or 277-volt service | - DMV |
| dimmable to 5% by either an incandescent or electronic low voltage dimmer only; 120-volt service only | - DMP |
| dimmable to 1% by a 2-wire Lutron compatible dimmer | - DM1U |
| dimmable to 1% SoftOn/FadeToBlack by a Lutron EcoSystem control | - ECO-LU |
| eldoLED 0-10V (Logarithmic) driver dimmable to 0.1% with a 0-10V dimmer | - DVOELG |
| eldoLED 0-10V (Linear) driver dimmable to 0.1% with a 0-10V dimmer | - DVOELN |
| eldoLED driver dimmable to 0.1% with DALI control system | - DA0-EL |
| Light Color | |
| 2700 K | - 27K |
| 3000 K | - 30K |
| 3500 K | - 35K |
| 4000 K | - 40K |

| External Reflector Color & Trim | GLS Clear Glass | PRS Prismatic Lens |
|---------------------------------|--------------------|-----------------------|
| Slightly diffuse clear | GLS-VOL | PRS-VOL |
| Champagne Gold | GLS-GOL | PRS-GOL |
| White | GLS-WOL | PRS-WOL |
| Black | GLS-BOL | PRS-BOL |

Standard reflector flange continues reflector finish. White painted flanges and custom painted flanges are available on special order. Add WF (white flange) or CCF (custom color flange).

OPTIONS *Specify by adding to the basic unit.*

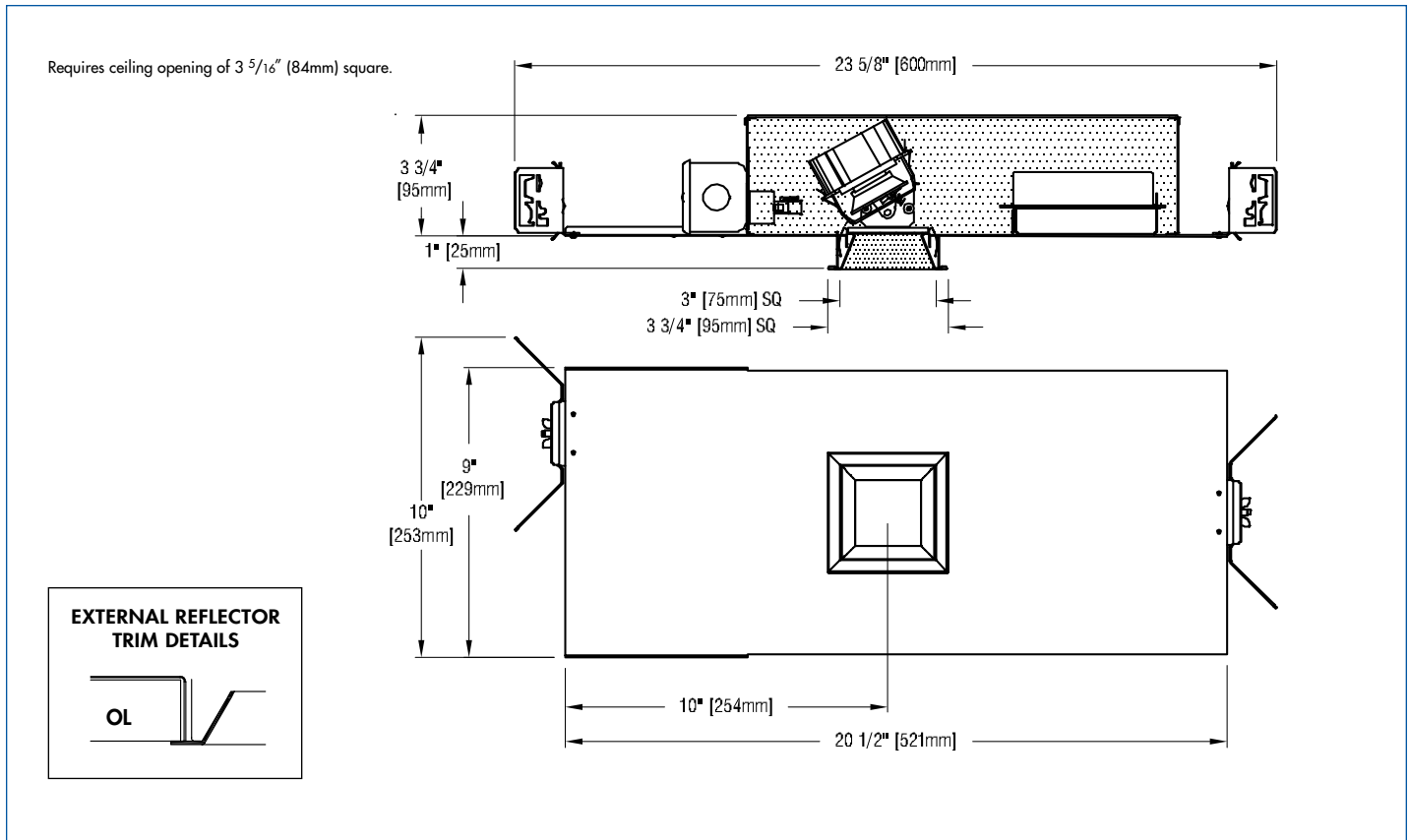
| | |
|--|-------|
| Energy Star labelling available on some models; see the Energy Star info 'box' on this page | - ESL |
|--|-------|

EXTRA INTERNAL LENSES *Specify as separate line items.*

| | |
|--------------------------------|---------------|
| 12° internal lens | CLT-LENS12-50 |
| 20° internal lens | CLT-LENS20-50 |
| 36° internal lens | CLT-LENS36-50 |

ENERGY STAR
Energy Star qualified under Luminaires Specification V2.0. See Energy Star website for model numbers included in listing. The following options are not qualified: L08H, L15S, 12D and 20D. On orders which require Energy Star labelling, add **"-ESL"** to the specified Product Code.





STANDARD DMV DRIVER INFORMATION (UL Class 2, dry and damp location)

| Voltage | 120 | 277 |
|---|-------------------|-------------------|
| Input Watts <small>(L108H/L110H/L12H/L10S/L12S/L15S)</small> | 9/10/13/9/10/13 | 9/10/13/9/10/13 |
| Input Current (A) <small>(L108H/L110H/L12H/L10S/L12S/L15S)</small> | 08/08/11/08/08/11 | 04/04/06/04/04/06 |
| Output Current (mA) | 220-350 | 220-350 |
| Min. Power Factor | .99 | .99 |
| Operating Temperature Range (F) | -13 to 122 | -13 to 122 |

LIGHT OUTPUT MULTIPLIER

| LED Light Engine | Light Output Multiplier | RX Light Output Multiplier |
|--------------------|-------------------------|----------------------------|
| 800 Lumens 90 CRI | 0.84* | 0.55* |
| 1000 Lumens 90 CRI | 1 | 0.55* |
| 1200 Lumens 90 CRI | 1.23* | 0.55* |
| 1000 Lumens 80 CRI | 1.04* | 0.67* |
| 1200 Lumens 80 CRI | 1.24* | 0.67* |
| 1500 Lumens 80 CRI | 1.53* | 0.67* |

*estimated values

REFLECTOR COLOR MULTIPLIERS

| | |
|----------------------------|-----|
| Slightly diffuse clear (V) | 1 |
| Fully diffuse clear (EC) | .90 |
| Specular white (W) | .70 |
| Black (B) | .40 |

— photometrics continued below —

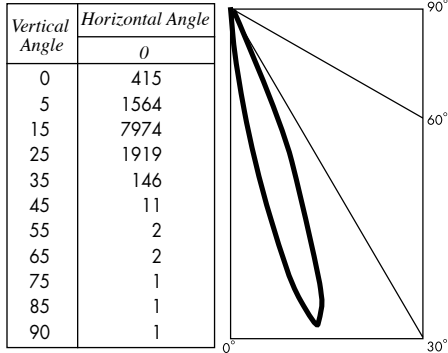


PHOTOMETRIC REPORT with 12° internal lens and clear glass (GLS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.01. Original test report furnished upon request.

Luminairerecessed LED square accent light with semi-specular clear aluminum reflector and clear glass, LED aimed at 15° above vertical.+
Light SourceCree CXB1310 LED with 12° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens

CANDLEPOWER DISTRIBUTION (Candela)



LUMINAIRE LIGHT OUTPUT AND EFFICACY

| LED Light Engine | Luminaire Light Output | Luminaire CBCP | Luminaire Efficacy (lms/watt) | System Wattage | RX Light Output (90 min run) |
|--------------------|------------------------|----------------|-------------------------------|----------------|------------------------------|
| 800 Lumens 90 CRI | 489* | 6698* | 55* | 9 | 320* |
| 1000 Lumens 90 CRI | 582 | 7974 | 55 | 10 | 320* |
| 1200 Lumens 90 CRI | 716* | 9808* | 55* | 13 | 320* |
| 1000 Lumens 80 CRI | 605* | 8293* | 67* | 9 | 390* |
| 1200 Lumens 80 CRI | 722* | 9888* | 72* | 10 | 390* |
| 1500 Lumens 80 CRI | 890* | 12,200* | 68* | 13 | 390* |

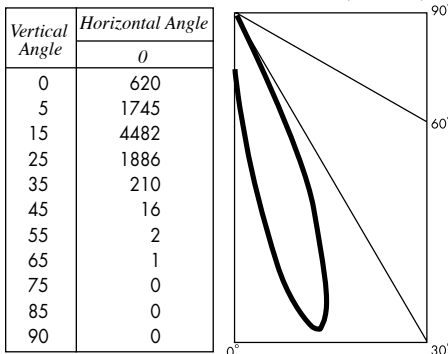
*estimated values

PHOTOMETRIC REPORT with 12° internal lens and prismatic lens (PRS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.02. Original test report furnished upon request.

Luminaire recessed LED square accent light with semi-specular clear aluminum reflector and prismatic lens, LED aimed at 15° above vertical.+
Light Source Cree CXB1310 LED with 12° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens

CANDLEPOWER DISTRIBUTION (Candela)



LUMINAIRE LIGHT OUTPUT AND EFFICACY

| LED Light Engine | Luminaire Light Output | Luminaire CBCP | Luminaire Efficacy (lms/watt) | System Wattage | RX Light Output (90 min run) |
|--------------------|------------------------|----------------|-------------------------------|----------------|------------------------------|
| 800 Lumens 90 CRI | 474* | 3765* | 55* | 9 | 310* |
| 1000 Lumens 90 CRI | 564 | 4482 | 54 | 10 | 310* |
| 1200 Lumens 90 CRI | 694* | 5513* | 53* | 13 | 310* |
| 1000 Lumens 80 CRI | 587* | 4661* | 65* | 9 | 378* |
| 1200 Lumens 80 CRI | 699* | 5558* | 70* | 10 | 378* |
| 1500 Lumens 80 CRI | 863* | 6857* | 66* | 13 | 378* |

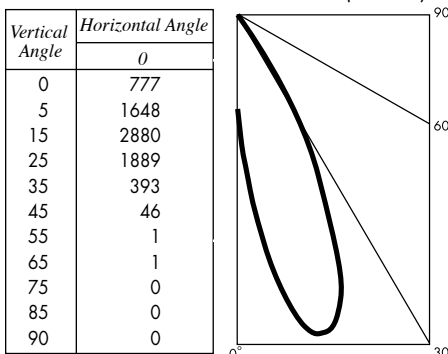
*estimated values

PHOTOMETRIC REPORT with 20° internal lens and clear glass (GLS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.03. Original test report furnished upon request.

Luminaire recessed LED square accent light with semi-specular clear aluminum reflector and clear glass, LED aimed at 15° above vertical.+
Light Source Cree CXB1310 LED with 20° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens

CANDLEPOWER DISTRIBUTION (Candela)



LUMINAIRE LIGHT OUTPUT AND EFFICACY

| LED Light Engine | Luminaire Light Output | Luminaire CBCP | Luminaire Efficacy (lms/watt) | System Wattage | RX Light Output (90 min run) |
|--------------------|------------------------|----------------|-------------------------------|----------------|------------------------------|
| 800 Lumens 90 CRI | 491* | 2419* | 55* | 9 | 321* |
| 1000 Lumens 90 CRI | 584 | 2880 | 56 | 10 | 321* |
| 1200 Lumens 90 CRI | 718* | 3542* | 55* | 13 | 321* |
| 1000 Lumens 80 CRI | 607* | 2995* | 67* | 9 | 391* |
| 1200 Lumens 80 CRI | 724* | 3571* | 72* | 10 | 391* |
| 1500 Lumens 80 CRI | 894* | 4406* | 69* | 13 | 391* |

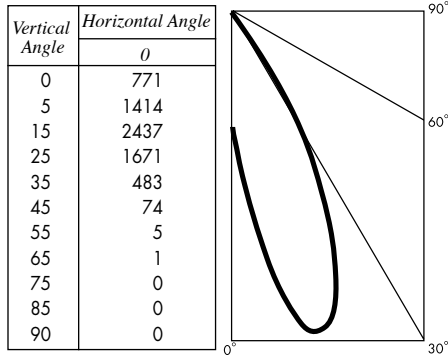
*estimated values

PHOTOMETRIC REPORT with 20° internal lens and prismatic lens (PRS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.04. Original test report furnished upon request.

Luminaire recessed LED square accent light with semi-specular clear aluminum reflector and prismatic lens, LED aimed at 15° above vertical.+
Light Source Cree CXB1310 LED with 20° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens

CANDLEPOWER DISTRIBUTION (Candela)



LUMINAIRE LIGHT OUTPUT AND EFFICACY

| LED Light Engine | Luminaire Light Output | Luminaire CBCP | Luminaire Efficacy (lms/watt) | System Wattage | RX Light Output (90 min run) |
|--------------------|------------------------|----------------|-------------------------------|----------------|------------------------------|
| 800 Lumens 90 CRI | 486* | 2047* | 54* | 9 | 318* |
| 1000 Lumens 90 CRI | 579 | 2437 | 55 | 10 | 318* |
| 1200 Lumens 90 CRI | 712* | 2998* | 55* | 13 | 318* |
| 1000 Lumens 80 CRI | 602* | 2534* | 67* | 9 | 388* |
| 1200 Lumens 80 CRI | 718* | 3022* | 72* | 10 | 388* |
| 1500 Lumens 80 CRI | 886* | 3729* | 68* | 13 | 388* |

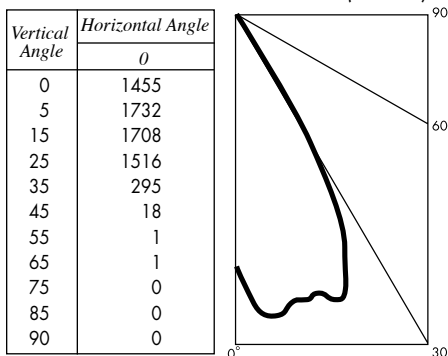
*estimated values

PHOTOMETRIC REPORT with 36° internal lens and clear glass (GLS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.05. Original test report furnished upon request.

Luminaire recessed LED square accent light with semi-specular clear aluminum reflector and clear glass, LED aimed at 15° above vertical.+
Light Source Cree CXB1310 LED with 36° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens

CANDLEPOWER DISTRIBUTION (Candela)



LUMINAIRE LIGHT OUTPUT AND EFFICACY

| LED Light Engine | Luminaire Light Output | Luminaire CBCP | Luminaire Efficacy (lms/watt) | System Wattage | RX Light Output (90 min run) |
|--------------------|------------------------|----------------|-------------------------------|----------------|------------------------------|
| 800 Lumens 90 CRI | 542* | 1511* | 60* | 9 | 355* |
| 1000 Lumens 90 CRI | 645 | 1799 | 62 | 10 | 355* |
| 1200 Lumens 90 CRI | 793* | 2213* | 61* | 13 | 355* |
| 1000 Lumens 80 CRI | 671* | 1871* | 75* | 9 | 432* |
| 1200 Lumens 80 CRI | 800* | 2231* | 80* | 10 | 432* |
| 1500 Lumens 80 CRI | 987* | 2752* | 76* | 13 | 432* |

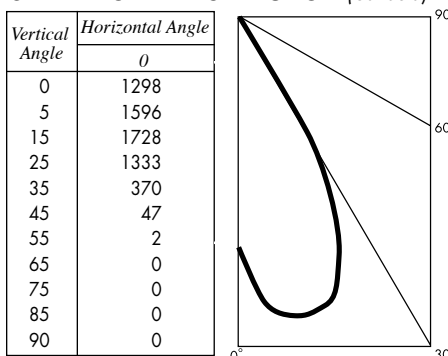
*estimated values

PHOTOMETRIC REPORT with 36° internal lens and prismatic lens (PRS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.06. Original test report furnished upon request.

Luminaire recessed LED square accent light with semi-specular clear aluminum reflector and prismatic lens, LED aimed at 15° above vertical.+
Light Source Cree CXB1310 LED with 36° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens

CANDLEPOWER DISTRIBUTION (Candela)



LUMINAIRE LIGHT OUTPUT AND EFFICACY

| LED Light Engine | Luminaire Light Output | Luminaire CBCP | Luminaire Efficacy (lms/watt) | System Wattage | RX Light Output (90 min run) |
|--------------------|------------------------|----------------|-------------------------------|----------------|------------------------------|
| 800 Lumens 90 CRI | 538* | 1457* | 60* | 9 | 352* |
| 1000 Lumens 90 CRI | 640 | 1735 | 61 | 10 | 352* |
| 1200 Lumens 90 CRI | 787* | 2134* | 61* | 13 | 352* |
| 1000 Lumens 80 CRI | 666* | 1804* | 74* | 9 | 429* |
| 1200 Lumens 80 CRI | 794* | 2151* | 79* | 10 | 429* |
| 1500 Lumens 80 CRI | 979* | 2655* | 75* | 13 | 429* |

*estimated values