

Project

Type



Date

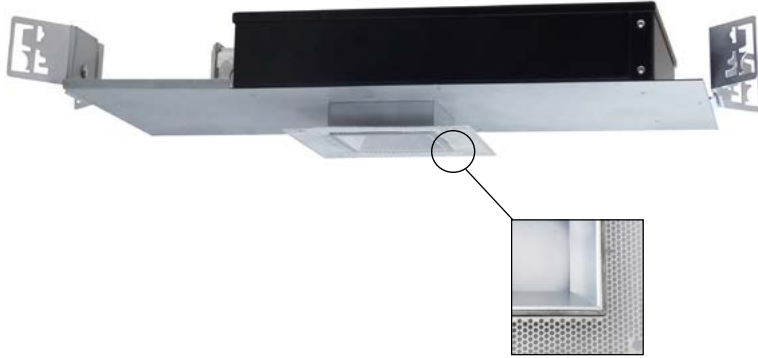
Product Code

Designer

CHP WAFER PRIM SQUARE/3 DL

recessed shallow trimless Chicago Plenum LED downlight

FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE



FEATURES

- **CHP WAFER PRIM SQUARE/3 DL is a 3" aperture LED downlight** designed for use in a Chicago Plenum ceiling. **Recess depth is only 3 1/2"** (housing depth of 2 1/2" 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 is exclusively designed for installation in sheet rock** to achieve a flush trim detail. Installation includes the application of drywall compound over the luminaire's integral spackle screen to the rim of its integral plaster ring.
- **Luminaire employs an internal 'twist and lock'** lens to produce an initial beam-spread of either 32° or 60°. To allow beam-spread to be changed in installed luminaires, internal lenses are available as accessories.
- **External reflector is designed to accept** a Solite-pattern prismatic lens (-PRS) or a diffuse lens (-DIF). External reflectors are available in two clear natural aluminum finishes – slightly diffuse (V) or fully diffuse (EC) – as well as black and white.
- **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.



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 and L15S. On orders which require Energy Star labelling, add "-ESL" to the specified Product Code.

PRODUCT CODE

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

Basic Unit WP3CHP-CLT-DL

Internal Lens Choose one.

32° initial beamspread - 32D
 60° initial beamspread - 60D

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 - DMHU
 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	PRS Prismatic Lens	DIF Diffuse Lens
Slightly diffuse clear	PRS-VTL	DIF-VTL
Diffuse clear	PRS-ECTL	DIF-ECTL
Black	PRS-BTL	DIF-BTL
White	PRS-WTL	DIF-WTL

OPTIONS *Specify by adding to the basic unit.*

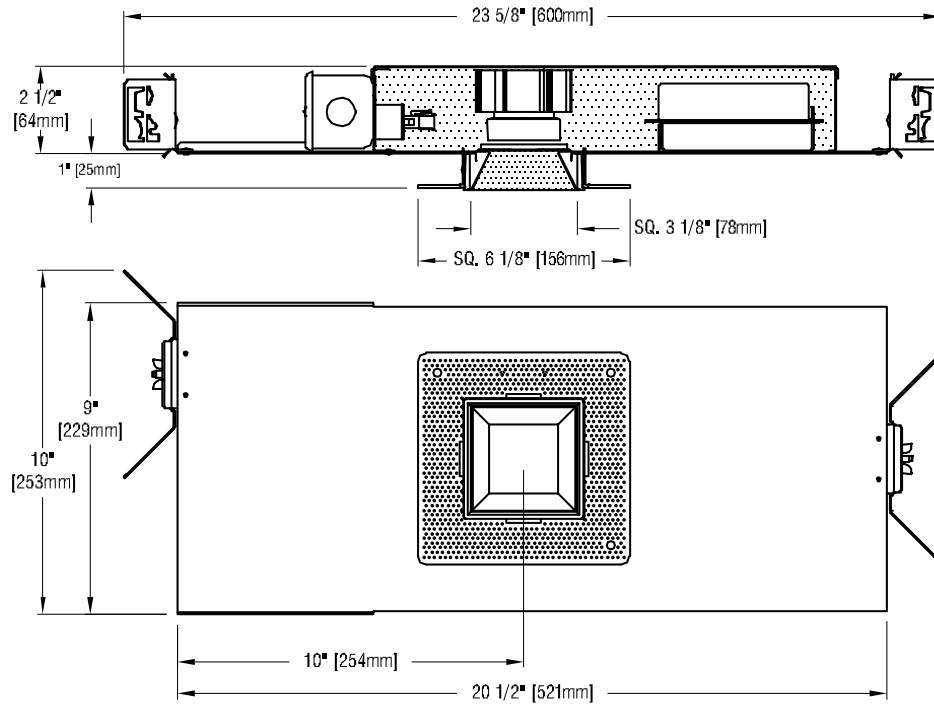
Energy Star labelling available on some models; see the Energy Star info 'box' on this page - ESL

EXTRA INTERNAL LENSES *Specify as separate line items.*

32° internal lens CLT-LENS32-50
 60° internal lens CLT-LENS60-50



Requires ceiling opening of 4" (102mm) square in a drywall ceiling.



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

Voltage	120	277
Input Watts <small>(L08H/L10H/L12H/L10S/L12S/L15S)</small>	9/10/13/9/10/13	9/10/13/9/10/13
Input Current (A) <small>(L08H/L10H/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
800 Lumens 90 CRI	0.84*
1000 Lumens 90 CRI	1
1200 Lumens 90 CRI	1.23*
1000 Lumens 80 CRI	1.04*
1200 Lumens 80 CRI	1.24*
1500 Lumens 80 CRI	1.53*

*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 –

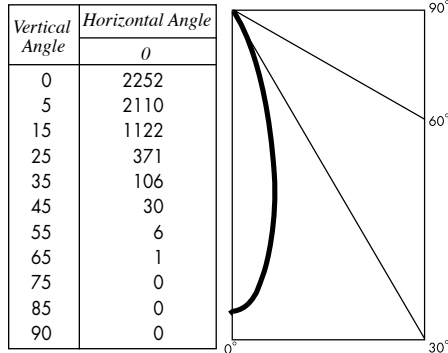


PHOTOMETRIC REPORT with 32° internal lens and prismatic external lens (PRS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.09A. Original test report furnished upon request.

Luminaire recessed LED square downlight with semi-specular clear aluminum reflector and prismatic lens
 Light Source Cree CXB1310 LED with 32° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens
 Spacing Criteria 0.5

CANDLEPOWER DISTRIBUTION (Candela)



LUMINANCE DATA

Vertical Angle	Candelalm ²
45	7368
55	1865
65	472
75	88
85	61

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0 - 40°	746	95.2
0 - 60°	782	99.8
0 - 90°	783	100.0
90 - 180°	0	0.0

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Light Engine	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
800 Lumens 90 CRI	659*	73*	9
1000 Lumens 90 CRI	784	75	10
1200 Lumens 90 CRI	964*	74*	13
1000 Lumens 80 CRI	815*	91*	9
1200 Lumens 80 CRI	972*	97*	10
1500 Lumens 80 CRI	1200*	92*	13

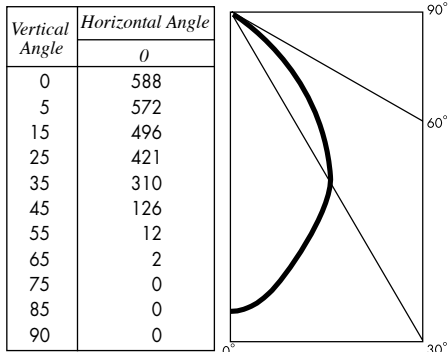
*estimated values

PHOTOMETRIC REPORT with 32° internal lens and external diffuser (DIF) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.10A. Original test report furnished upon request.

Luminaire recessed LED square downlight with semi-specular clear aluminum reflector and diffuser
 Light Source Cree CXB1310 LED with 32° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens
 Spacing Criteria 0.99

CANDLEPOWER DISTRIBUTION (Candela)



LUMINANCE DATA

Vertical Angle	Candelalm ²
45	30,620
55	3602
65	888
75	249
85	170

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0 - 40°	553	79.5
0 - 60°	693	99.5
0 - 90°	696	100.0
90 - 180°	0	0.0

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Light Engine	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
800 Lumens 90 CRI	585*	65*	9
1000 Lumens 90 CRI	696	66	10
1200 Lumens 90 CRI	856*	66*	13
1000 Lumens 80 CRI	724*	80*	9
1200 Lumens 80 CRI	863*	86*	10
1500 Lumens 80 CRI	1065*	82*	13

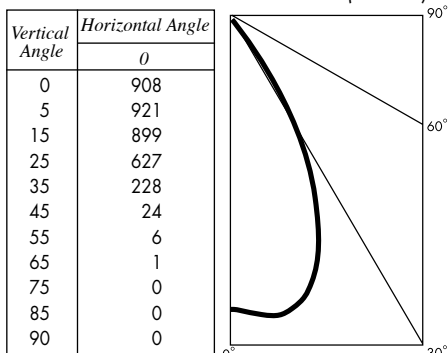
*estimated values

PHOTOMETRIC REPORT with 60° internal lens and prismatic external lens (PRS) (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12269958.07A. Original test report furnished upon request.

Luminaire recessed LED square downlight with semi-specular clear aluminum reflector and prismatic lens
 Light Source Cree CXB1310 LED with 60° beam spread integral lens, 2700K CCT, 90 CRI, 1000 lumens
 Spacing Criteria 0.95

CANDLEPOWER DISTRIBUTION (Candela)



LUMINANCE DATA

Vertical Angle	Candelalm ²
45	5897
55	1653
65	447
75	106
85	58

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0 - 40°	772	94.3
0 - 60°	817	99.8
0 - 90°	818	100.0
90 - 180°	0	0.0

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Light Engine	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
800 Lumens 90 CRI	687*	76*	9
1000 Lumens 90 CRI	818	78	10
1200 Lumens 90 CRI	1006*	77*	13
1000 Lumens 80 CRI	851*	95*	9
1200 Lumens 80 CRI	1014*	101*	10
1500 Lumens 80 CRI	1252*	96*	13

*estimated values