

Project

Type



Date

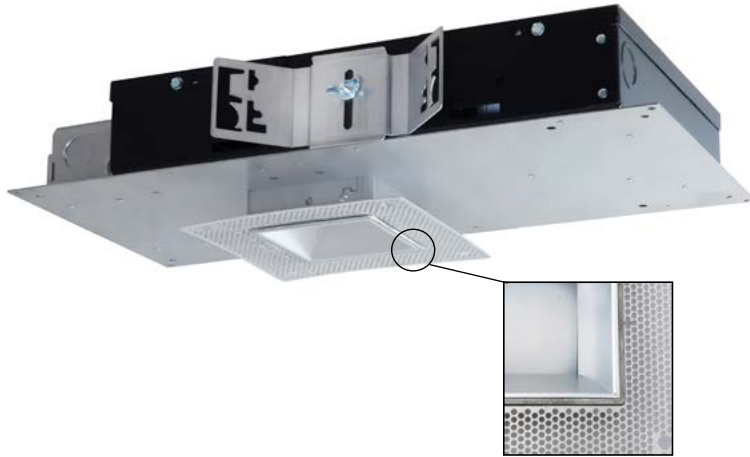
Product Code

Designer

# WAFER PRIM SQUARE/3 DL

recessed shallow trimless square LED downlight

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



## FEATURES

- **WAFER PRIM SQUARE/3 DL is a trimless, square, high efficacy, LED downlight** with an overall depth of 3 1/2" (housing depth of 2 1/2" plus a 1" throat).
- **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.
- **Optional housing design for residential installation** in wood joist ceilings (-RI).
- **WAFER PRIM SQUARE/3 DL 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. Luminaire is RoHS compliant, is suitable for use in a fire rated ceiling. Removal of the external reflector allows access to the LED module 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, L15S, and ZGOMAG. 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** ..... standard installation design ..... WP3-CLT-DL

**Internal Lens** *Choose one.*  
 32° initial beamspread ..... - 32D  
 60° initial beamspread ..... - 60D

**Light Source Output** (Lumens)  
 800 lumens / CRI 90+ ..... 2700K & 3000K only ..... - L08H  
 1000 lumens ..... 2700K & 3000K only ..... - L10H  
 1200 lumens ..... 2700K & 3000K only ..... - 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 ..... - DMILU  
 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  
 dimmable to 0.1% by a Zigbee wireless network (Daintree, Encelium or Wink); wireless range 50' through standard walls; available with L12H or L15S models only ..... - ZGOMAG

**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.*

**Housing designed for residential installation** (see next page) including a pair of mounting bars (extendable to 20") for use between wood joists. .... - RI  
**Millwork trim detail** consists of an aperture collar (see below) and an external reflector (see above).  
 milled aluminum aperture collar ..... - M  
 white aperture collar ..... - MWH  
 black aperture collar ..... - MBL  
 custom color aperture collar ..... - MCC  
**Energy Star labelling** available on some models; see the Energy Star info 'box' on this page ..... - ESL

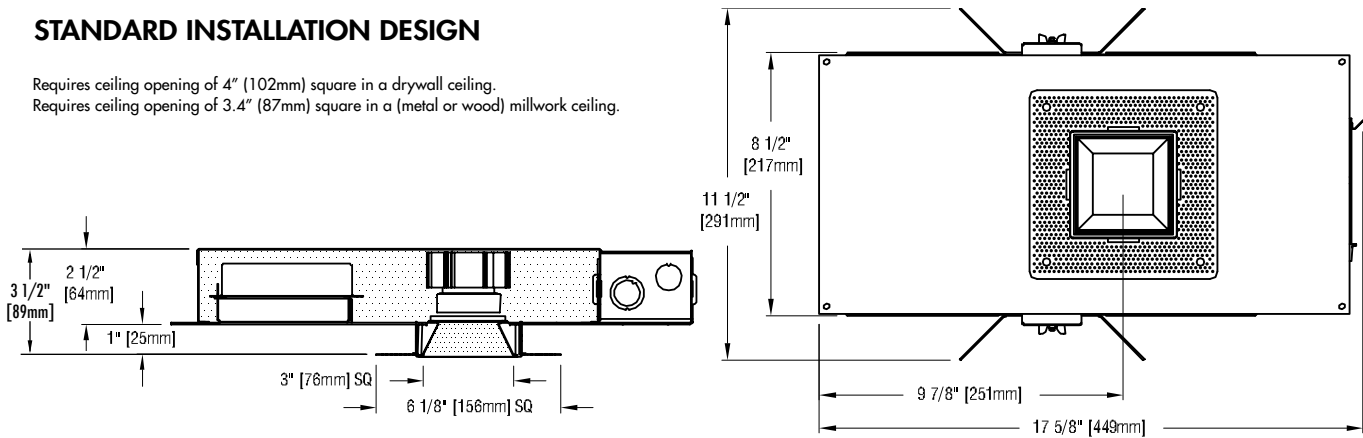
## EXTRA INTERNAL LENSES *Specify as separate line items.*

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

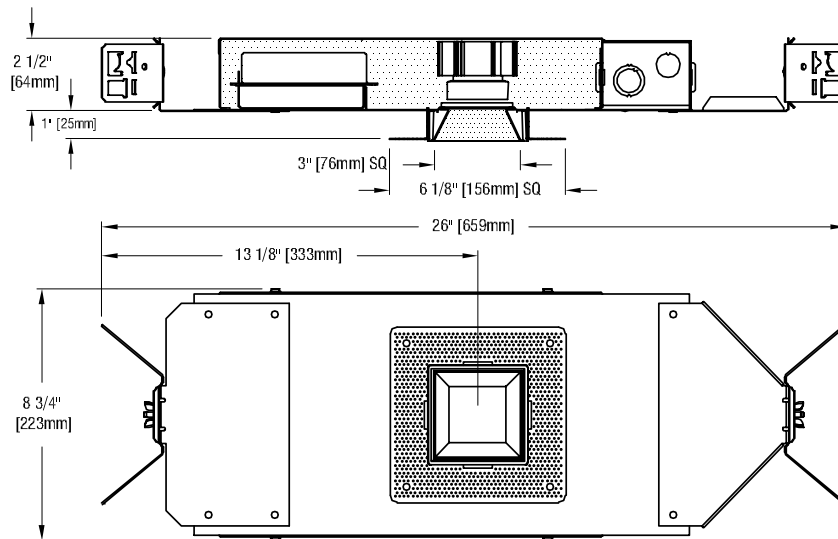


## STANDARD INSTALLATION DESIGN

Requires ceiling opening of 4" (102mm) square in a drywall ceiling.  
 Requires ceiling opening of 3.4" (87mm) square in a (metal or wood) millwork ceiling.



## RESIDENTIAL INSTALLATION DESIGN (-RI)



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

Voltage	120	277
Input Watts (L08H/L10H/L12H/L10S/L12S/L15S)	9/10/13/9/10/13	9/10/13/9/10/13
Input Current (A) (L08H/L10H/L12H/L10S/L12S/L15S)	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 –

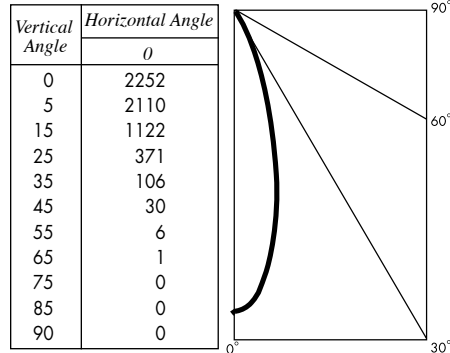


## PHOTOMETRIC REPORT with 32° internal lens and prismatic external lens (PRS) (tested per IESNA LM-79-2008)

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 <sup>2</sup>
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

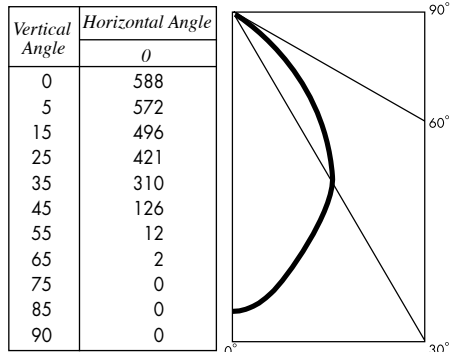
\*estimated values

## 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 <sup>2</sup>
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

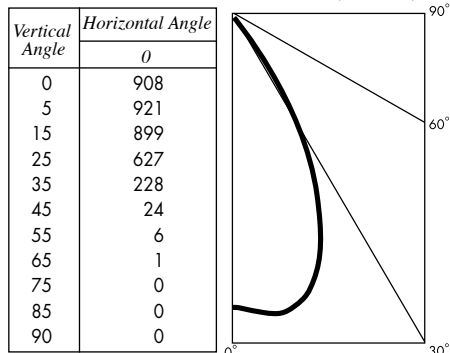
\*estimated values

## 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 <sup>2</sup>
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