

Project

Type



Date

Product Code

Designer

CHP WAFER SQUARE/3 WL

recessed shallow Chicago Plenum LED wallwasher

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



FEATURES

- **CHP WAFER SQUARE/3 WL** is a 3" aperture LED wallwasher designed for use in a Chicago Plenum ceiling. **Recess depth is only 4"** (housing depth of 3" 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.
- **The optical assembly consists of an internal lens and a diffuser** capping the external reflector.
- **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.

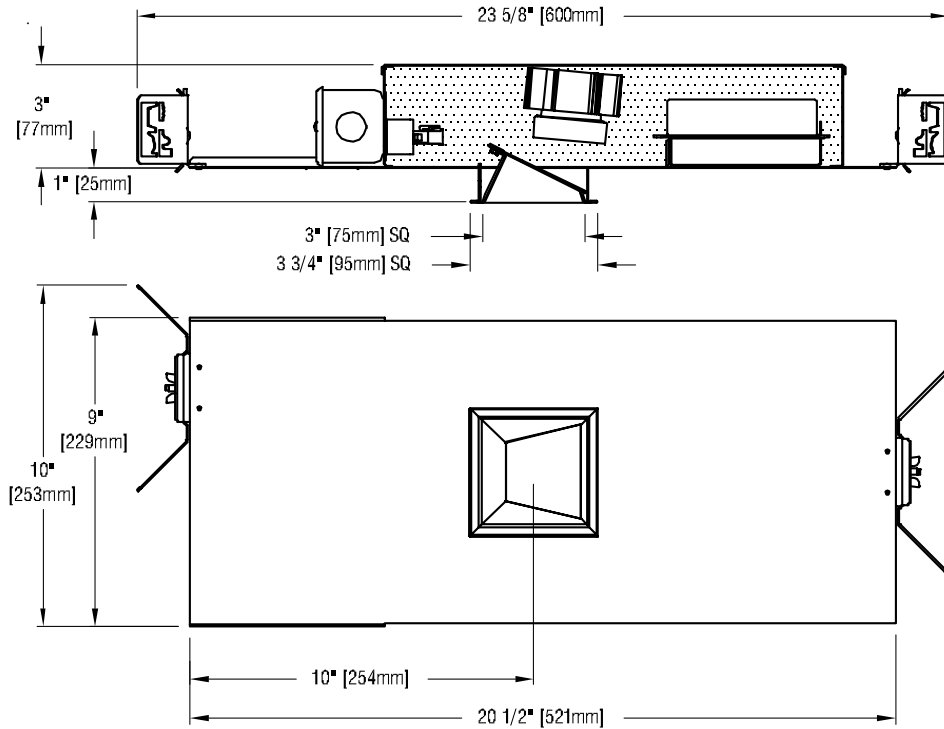
PRODUCT CODE

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

Basic Unit	WS3CHP-CLT-WL
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	- DV0ELG
eldoLED 0-10V (Linear) driver dimmable to 0.1% with a 0-10V dimmer	- DV0ELN
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 and Trim <i>Overlap</i>	
Slightly diffuse Clear	-VOL
Champagne Gold	-GOL
White	-WOL
Black	-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).	



Requires ceiling opening of 3 5/16" (84mm) square.



– see below for photometric reports –



PHOTOMETRIC REPORT (tested per IESNA LM-79-2008)

Prorated from Verification Services Report No. 12305658.01A. Original test report furnished upon request.

Luminaire recessed LED square lensed wallwasher with internal lens and semi-specular clear aluminum reflector
 Light Source Cree CXB1310 LED with spread integral lens, 2700K CCT, 90 CRI, 1000 lumens
 Lamp Life rated 50,000 hours based on L70/B50 criteria. LM80 report LED manufacturer furnished upon request

WALLWASH INFORMATION | 1000 LUMENS LED

Distance From Ceiling (Feet)	3' From Wall; 3'O.C.		3' 6" From Wall; 3' 6" O.C.	
	Below Fixture	Between Fixtures	Below Fixture	Between Fixtures
1	1	1	1	1
2	9	9	4	5
3	15	14	10	10
4	14	14	11	11
5	12	11	10	10
6	9	9	8	8
7	7	7	7	7
8	6	6	5	5
9	4	4	4	4
10	4	4	4	4

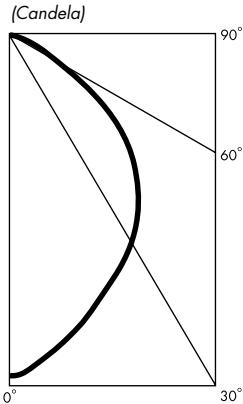
All vertical footcandles are initial values with no contribution from ceiling or floor reflectances. Computation performed with a total of ten wallwashers.

WALLWASH INFORMATION | 1500 LUMENS LED

Distance From Ceiling (Feet)	3' From Wall; 3'O.C.		3' 6" From Wall; 3' 6" O.C.	
	Below Fixture	Between Fixtures	Below Fixture	Between Fixtures
1	2	2	1	1
2	14	14	7	7
3	22	22	15	15
4	22	21	17	16
5	18	18	16	15
6	14	14	13	13
7	11	11	10	10
8	9	9	8	8
9	7	7	7	7
10	5	5	5	6

All vertical footcandles are initial values with no contribution from ceiling or floor reflectances. Computation performed with a total of six wallwashers.

CANDLEPOWER DISTRIBUTION



LUMINAIRE LIGHT OUTPUT AND EFFICACY

	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage	RX Light Output (90 min. run)
LED Light Engine				
800 Lumens 90 CRI	428*	48*	9	280*
1000 Lumens 90 CRI	509	48	10	280*
1200 Lumens 90 CRI	626*	48*	13	280*
1000 Lumens 80 CRI	529*	59*	9	341*
1200 Lumens 80 CRI	631*	63*	10	341*
1500 Lumens 80 CRI	779*	60*	13	341*

*estimated values

REFLECTOR COLOR MULTIPLIERS

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

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

	120	277
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	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