Core 4" Square Wall Wash (102mm)
Formerly known as 1249
Adjustable Recessed Wall Wash

specialty lighting industries

The Core Family

Welcome to the Core line of fixtures. You will find a rich diversity of technical and aesthetic options with over 14 finishes including custom wood trims, flux and source selections featuring 90+ CRI fixed white and our world class Ambient Dim (Warm Dim), a 3.7:1 uniformity ratio from top to bottom of the wall and plethora of driver and control choices. The Core wall wash is created on a platform allowing a high degree of modification, so if you don't see what you are looking for, just ask.
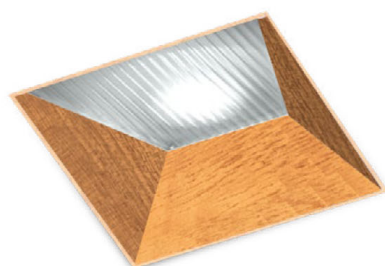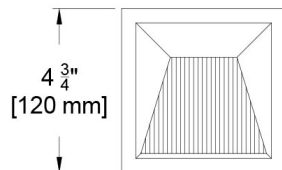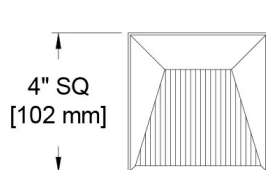
Key Points (CR4WW-SA)

Trim
- Flange of Flangeless
- Frosted Supertex borosilicate glass spread lens, hinged for source and driver service
- Flangeless includes plaster flange with plaster lip
- 14 color options + custom, RAL or wood available
- One-piece die cast aluminum or machined wood trim

Source / Optics
- 2700, 3000, 3500, 4000K, Ambient Dim standard. Tunable White and RGBWupon request
- Lifetime: L87B3>55,000 hours at 40ºC ambient
- 90 CRI , 60+ R9 Standard- 95 CRI 90+R9 Optional
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 1069 delivered lumens
- Adjustable to 45º with 358º of rotation
- Uniform light from floor to ceiling. Achieves a 3.7:1 ratio on a 10' ceiling at 2.5' setback with a 1:1 on center spacing

Housing
- TITLE 24 Compliant to JA8 with Airtight Housing (C14 only)
- CSA cᴜs Listed – Damp or wet with shower trim
- Approved for 8 (4-in / 4-out) #12 AWG conductors rated for 90°C through wiring
- IC Rated / Airtight Housing approved for use in direct contact with insulation – Chicago Plenum Available
- Heavy gauge aluminum for new construction or remodel

Driver
- Phase, 0-10, DALI, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015
- Prewired and integral to housing
- Universal 120-277v

4" Square Z (Flangeless)

4" Square F (Flanged)

4" SQ
[102 mm]

4 ¾"
[120 mm]

Wood Trim Available

SQUARE WW (CR4WW-SA) Beamspreads		35.6°		ISO CD Plot	CCT Multplier	
Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt			
Citizen C14	14	679	49		2700	.95
Citizen C20	21	832	40		3000	1.00
Citizen C28*	30	1069	35		3500	1.02
Ambient Dim A14	15	461	31	35.6°	4000	1.03

All data based on 3000k in fixed position (CR4WW-SF). Ambient Dim based on 3000k at full output. *CZ28 requires active cooling and cannot be used with IC housing, Chicago Plenum or LP Driver.

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Ordering Codes

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: CR4WW-SA-Z-AP-C20-35-E1-P14-EM

FIXTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	DRIVER / CONTROL	TRIM FINISH	ACCESSORIES
CR4WW-SA							
Core 4" Square Adjustable Wall Wash	F Flanged Trim Z Flangeless Trim FS Flanged Shower Trim ZS Flangeless Shower Trim	U Universal - Non IC Housing AU ●● Universal IC/Airtight* P Plaster AP ●● Plaster IC/Airtight* PM Panel Mount APM ●● Panel Mount Airtight/IC* ●● California Title Compliant * Cannot be used with C28 Source	**Citizen** C14 ●● 14W 679Lm 90+CRI, 60+R9 C20 21W 832Lm 90+CRI, 60+R9 C28 30W* 1069Lm 90+CRI, 60+R9 **Ambient Dim** A14 15W 461Lm 95+CRI, 90+R9 3000k to 1900k **INK** Tunable White 90+CRI, 70+R9 1800-4000K or 2700-6500K^ RGBW ^ ●● California Title 24 Compliant to JA8. * Requires Active Cooling, must be used with NIC housing. Not compatible with L2 and LP drivers. ^ Available upon request. Contact your regional sales manager.	27 2700K 30 3000K 35 3500K 40 4000K AD 3000-1900K	C1 0-10 1.0%, UNV (120-277V) linear C2 ELV/Triac 1.0%, (120V) linear **EldoLED** E1 0-10 0.1%, UNV (120-277V) log E2 DALI-2 0.1%, UNV (120-277V) log E3 0-10 0.1%, UNV (120-277V) linear **Lutron** LD Digital Ecosystem 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1 LP Digital Ecosystem* 0.1%, UNV (120-277V) ECO Premier Hi-Lume SoftOn/Fade-to-Black, PEQ0, 20W max * Not compatible with C28	W White Paint B Black Paint PXX Specialty Paint Color* P01-P15 C Custom/RAL Color** D Wood* *See Wood Trim Guide **Refer to Finish Guide **FINISH GUIDE LINK** **WOOD TRIM GUIDE**	EM Emergency Pack EMP Emergency Pack with phase cut control system utilizing C1 driver CP Chicago Plenum **Controls** LR Lutron Wireless RF PowPak ATH Lutron Athena Wireless Node *Must be used with E2 driver* CA Casambi Wireless BLE to be paired with driver

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Core 4" Square Wall Wash (102mm)

Formerly known as 1249
Adjustable Recessed Wall Wash
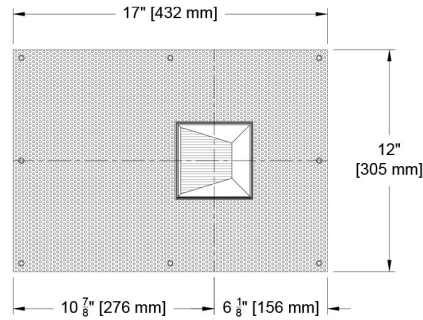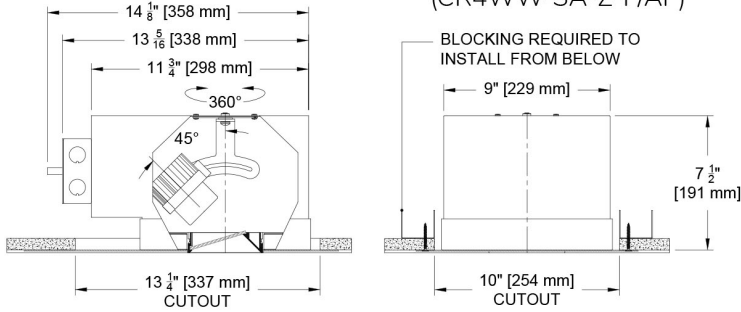
SPECIALTY
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Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

Square Flangeless Housing — Plaster Mount (P/AP)

(CR4WW-SA-Z-P/AP)

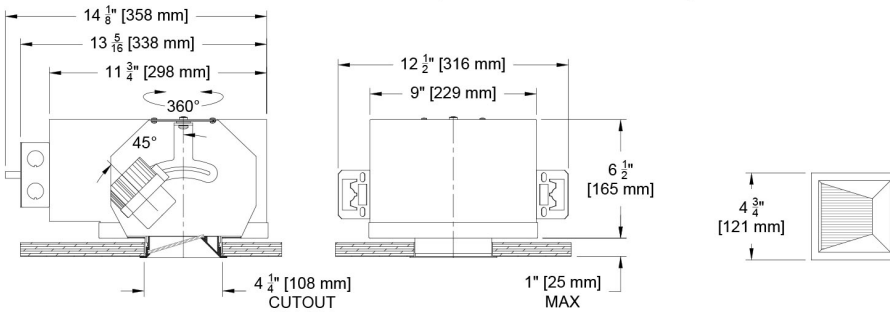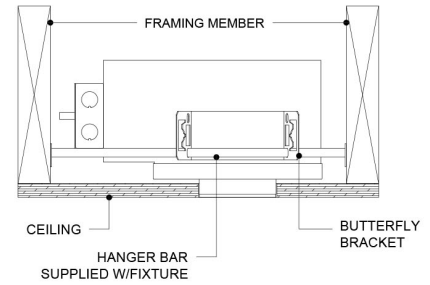14 $\frac{1}{8}$" [358 mm]
13 $\frac{5}{16}$" [338 mm]
11 $\frac{3}{4}$" [298 mm]
360°
45°

BLOCKING REQUIRED TO INSTALL FROM BELOW

9" [229 mm]

7 $\frac{1}{2}$" [191 mm]

13 $\frac{1}{4}$" [337 mm]
CUTOUT

10" [254 mm]
CUTOUT

17" [432 mm]

12" [305 mm]

10 $\frac{7}{8}$" [276 mm]   6 $\frac{1}{8}$" [156 mm]

Square Flanged Housing — Flanged Mount (U/AU)

(CR4WW-SA-F-U/AU)

14 $\frac{1}{8}$" [358 mm]
13 $\frac{5}{16}$" [338 mm]
11 $\frac{3}{4}$" [298 mm]
360°
45°

12 $\frac{1}{2}$" [316 mm]
9" [229 mm]

6 $\frac{1}{2}$" [165 mm]

4 $\frac{1}{4}$" [108 mm]
CUTOUT

1" [25 mm]
MAX

4 $\frac{3}{4}$" [121 mm]

Hanger Bar Detail

FRAMING MEMBER

CEILING

BUTTERFLY BRACKET

HANGER BAR SUPPLIED W/FIXTURE

8 $\frac{13}{16}$" [224 mm]   4 $\frac{1}{2}$" [114 mm]

14" [356 mm] - 26" [660 mm]

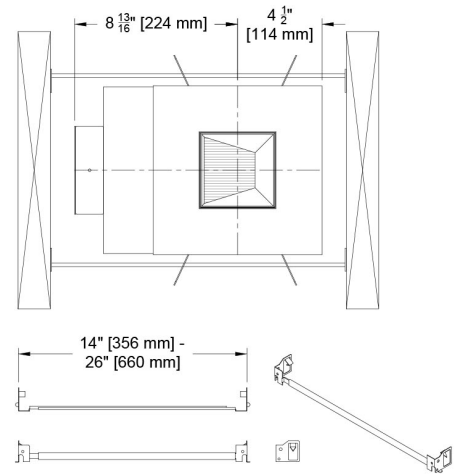## Square Flangeless Housing — Flangeless Mount (U/AU)

(CR4WW-SA-Z-U/AU)

14 $\frac{1}{8}$" [358 mm]
13 $\frac{5}{16}$" [338 mm]
11 $\frac{3}{4}$" [298 mm]
360°
45°

NOTE: This option is intended for use with precise and finished cutouts. There is no plaster or finish flange.

12 $\frac{1}{2}$" [316 mm]
9" [229 mm]

6 $\frac{1}{2}$" [165 mm]

4 $\frac{1}{4}$" [108 mm]
CUTOUT

1" [25 mm]
MAX

4" SQ [102 mm]
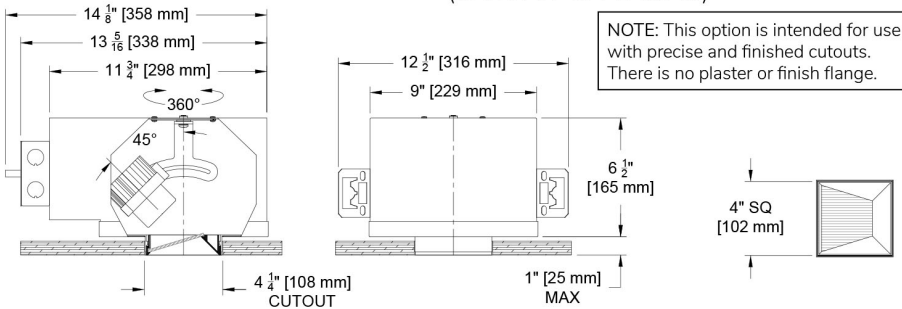
Square Flangeless Housing — Panel Mount (PM/APM)

(CR4WW-SA-Z-PM/APM)

14 $\frac{1}{8}$" [358 mm]
13 $\frac{5}{16}$" [338 mm]
11 $\frac{3}{4}$" [298 mm]
360°
45°

NOTE: This option is intended for use with precise and finished cutouts - usually millwork or wood ceilings. There is no plaster or finish flange.

12 $\frac{1}{2}$" [316 mm]
9" [229 mm]

6 $\frac{1}{2}$" [165 mm]

1" [25 mm]
MAX

4" SQ [102 mm]

Panel Mount Detail

4 $\frac{1}{16}$" SQ [103 mm]

4 $\frac{5}{16}$" SQ [110 mm]

$\frac{1}{8}$" [3 mm] MIN - $\frac{1}{4}$" [6 mm] MAX

1" [25 mm] MAX

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Photometric Table

All data is based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range. Measurements at 3000 CCT. C28 source requires active cooling and must be used with NIC housing for required airflow. C14 is the only source to meet CA Title 24 /JA8 requirements. All values can very +/-10% from source manufacturer rated flux range. All data taken from fixed fixture (CR4WW-SF) - contact your regional sales manager if tilt measurements are required
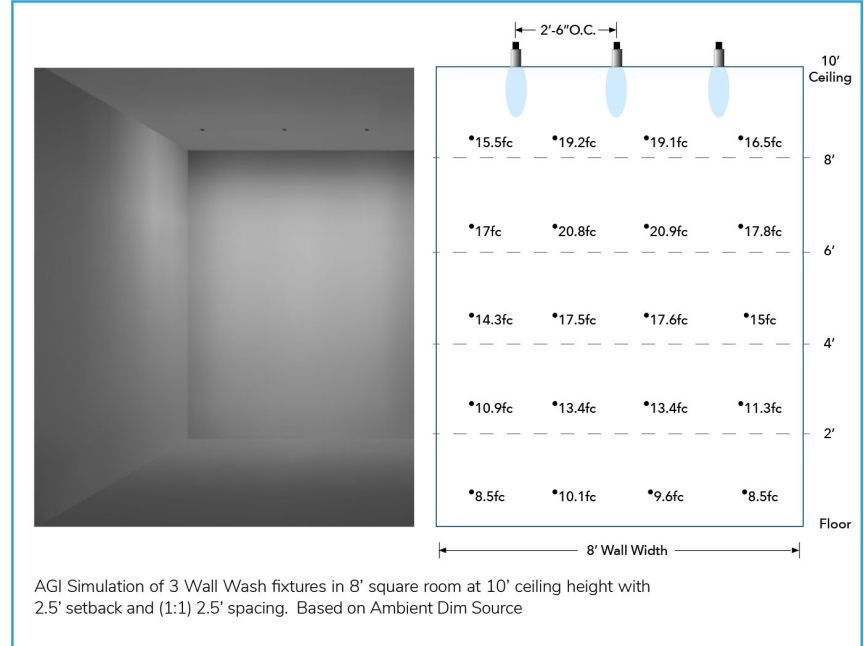
All data below is based from goniometer measurement of production representative product.
All lumen values can vary +/- 10% from LED manufacturer rated nominal flux.

SQUARE Wall Wash (CR4WW-SA)			
Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt
Citizen C14	14	679	49
Citizen C20	21	832	40
Citizen C28*	30	1069	35
Ambient Dim A14	15	461	31

CCT Multiplier	
CCT	Citizen
2700	0.95
3000	1.00
3500	1.02
4000	1.03

All data based on 3000k in fixed position (CR4WW-SF). Ambient Dim based on 3000k at full output. *CZ28 requires active cooling and cannot be used with IC housing, Chicago Plenum or LP Driver.

35.6°

AGI Simulation of 3 Wall Wash fixtures in 8' square room at 10' ceiling height with 2.5' setback and (1:1) 2.5' spacing. Based on Ambient Dim Source

2'-6"O.C.

10' Ceiling

	15.5fc	19.2fc	19.1fc	16.5fc	8'
	17fc	20.8fc	20.9fc	17.8fc	6'
	14.3fc	17.5fc	17.6fc	15fc	4'
	10.9fc	13.4fc	13.4fc	11.3fc	2'
	8.5fc	10.1fc	9.6fc	8.5fc	Floor

8' Wall Width

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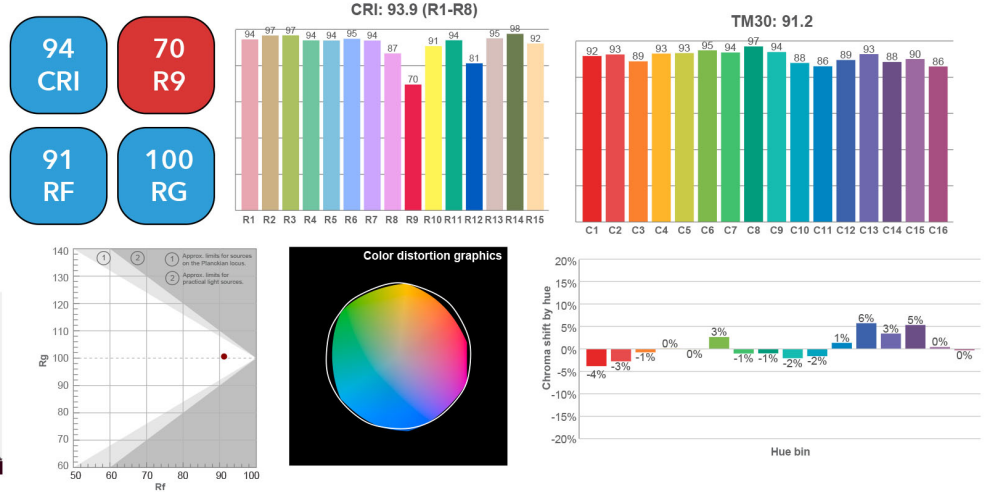Tel. 732.517.0800 | Fax 732.517.0971

Color Data

All data is based from goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT unless otherwise noted
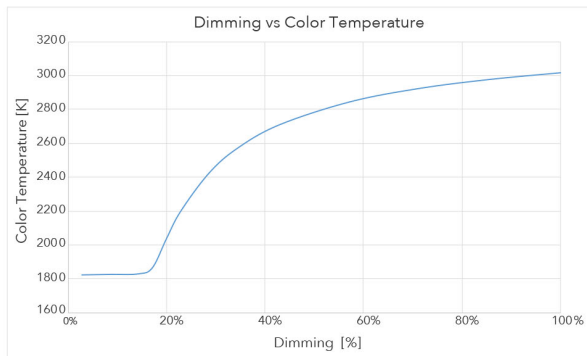
Citizen Sources - C14, C20 and C28

- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

94 CRI	70 R9
91 RF	100 RG

CRI: 93.9 (R1-R8)

TM30: 91.2

Spectra

Color distortion graphics
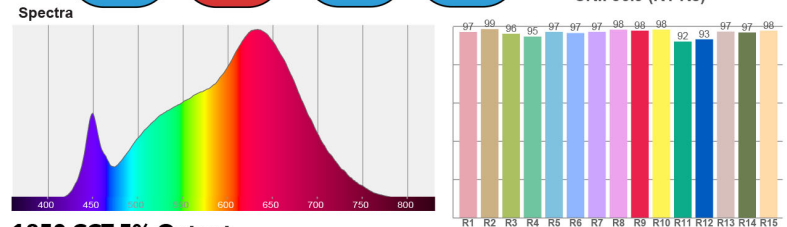
Chroma shift by hue

Ambient Dim - 3000k to 1900k

- <3 MacAdam Ellipse (<3 SDCM)
- 95+ CRI and RF
- 90+R9, Hue Bin 1
- Follows Black Body Locus through dimming range

3000 CCT Full Output

97 CRI	98 R9	95 RF	104 RG

Spectra

CRI: 96.9 (R1-R8)

Dimming vs Color Temperature

1850 CCT 5% Output

93 CRI	72 R9	83 RF	110 RG

Spectra

CRI: 92.6 (R1-R8)

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