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-RF)

Trim

- Flange or Flangeless

- Frosted Supertex borosilicate glass spread lens, hinged for source and driver service

- Flangeless includes plaster flange

- 14 color options + custom RAL or wood available

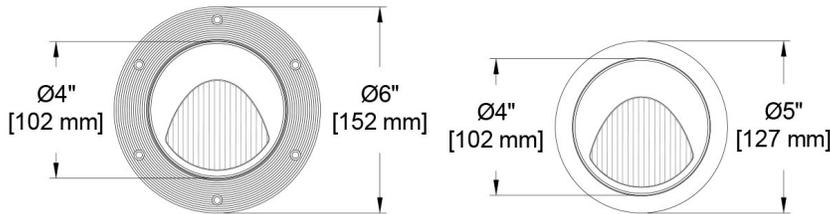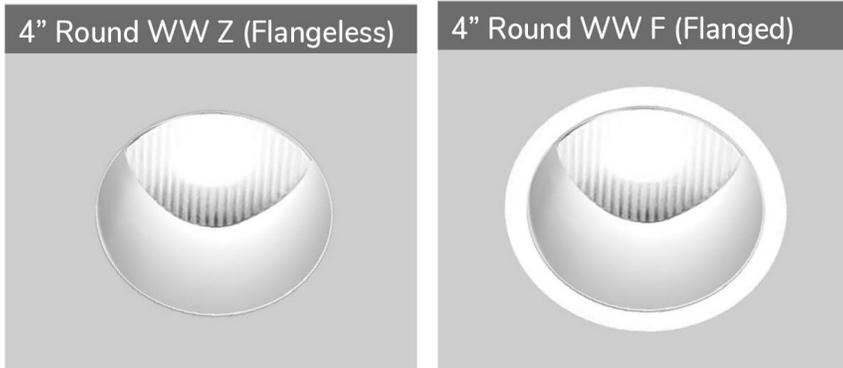- One-piece die cast aluminum or machined wood trim

Source / Optics

- Lifetime: L87B3>55,000 hours at 40ºC ambient

- 2400K, 2700K, 3000K, 3500K, 4000K
  Ambient Dim, RGBW & Tunable White options

- 90 CRI , 60+ R9 Standard- 95 CRI 90+R9 Optional

- <2 MacAdam Steps (<2SDCM) for fixed white

- Up to 1616 delivered lumens

- 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 source only)

- c CSA us 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

- TruPhase™, 0-10, DALI-2, DMX, Ecosystem or Wireless Control

- Flicker free to IEEE 1789-2015 available with EldoLED and TruPhase™ selections

- Prewired and integral to housing

- Universal 120-277v

4" Round WW Z (Flangeless)

Ø4" [102 mm]   Ø6" [152 mm]

4" Round WW F (Flanged)

Ø4" [102 mm]   Ø5" [127 mm]

Wood Trim Available

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Ordering Codes

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: CR4WW-RF-F-AU-C20-35-E2-P16-CP

FIXTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	DRIVER / CONTROL	TRIM FINISH	ACCESSORIES
CR4WW-RF							
Core 4" Round Fixed Wall Wash	**Flanged Trims** **F** Flanged Trim **FS** Flanged Shower Trim* *(for mounting choose from Flanged Housings)* **Flangeless Trims** **Z** Flangeless Trim **ZS** Flangeless Shower Trim* *(for mounting choose from Flangeless Housings)* * Aperture Lens Required	**Flanged Housings** **U** Universal - Non IC Housing **AU** ●● Airtight Universal *IC-Rated* **Flangeless Housings** **P** Plaster **AP** ●● Airtight Plaster *IC-Rated* **PM** Panel Mount **APM** ●● Airtight Panel Mount *IC-Rated* ●● Supports CA Title 24 Compliance	**Citizen** **C14** ●● 14W 833Lm 90+CRI, 60+R9 **C20** 20W 1056Lm 90+CRI, 60+R9 **C28** 31W 1616Lm 90+CRI, 60+R9 **C32** ●● 35W 2751Lm 90+CRI, 60+R9 **Tunable** **T9** 90+CRI, 60+R9 *Tunable White* **T15** 90+CRI, 60+R9 *Tunable White* **T20** 90+CRI, 60+R9 *Tunable White* **RGBW** 90+CRI, 60+R9 **Ambient Dim™** **A14** ●● 15W 578Lm 95+CRI, 90+R9 **A20** ●● 21W 858Lm 95+CRI, 90+R9 ●● Supports CA Title24 Compliance ~See Photometrics chart for latest performance data	**24** 2400K **27** 2700K **30** 3000K **35** 3500K **40** 4000K **Tunable** **TW1840** 1800-4000K Tunable White *w/ E1, E2, E3, E4* **TW2765** 2700-6500K Tunable White *w/ E1, E2, E3, E4* **RG1280** 1200-8000K RGBW Dynamic Color Changing *Requires E2 or E4* **Ambient Dim™** **2722** 2700-2200K * A14 Only **3019** 3000-1900K **3022** 3000-2200K * A14 Only	**C1** 0-10 1.0%, UNV (120-277V) linear **C2** ELV/Triac 1.0%, (120V) linear **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 **E4^** DMX 0.1%, UNV (120-277V) Universal DMX Driver/Controller *RGBW-DMX* *^ INCLUDES DMX/RDM COMPATIBLE DRIVER WITH BUILT-IN DECODER - CONTROLLER BY OTHERS* **TR2** TruPhase™ 0.1%, (120-120V) log Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only **LD** Digital Ecosystem 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1	**W** White Paint **B** Black Paint **D** Wood* **PXX** Specialty Paint Color* P01-P15 **C** Custom/RAL Color** * Wood "D" selection to be used with Z trim and PM mounting - Refer to Wood Trim Guide ** Refer to Finish Guide **FINISH GUIDE LINK** **WOOD TRIM GUIDE**	**EM** Emergency Pack **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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Ceiling Cutouts and Dimensions

Round Flangeless Housing — Plaster Mount (P/AP)

(CR4WW-RF-Z-P/AP)

15 $\frac{3}{8}$" [390 mm]
14 $\frac{9}{16}$" [370 mm]
13" [330 mm]
12 $\frac{1}{2}$" [316 mm]
9" [229 mm]
4 $\frac{5}{8}$" [115 mm]
Ø5 $\frac{1}{2}$" [127 mm] CUTOUT
1 $\frac{1}{4}$" [32 mm] MAX
Ø4" [101 mm]
Ø6" [152 mm]

Hanger Bar Detail

FRAMING MEMBER
CEILING
HANGER BAR SUPPLIED W/FIXTURE
BUTTERFLY BRACKET
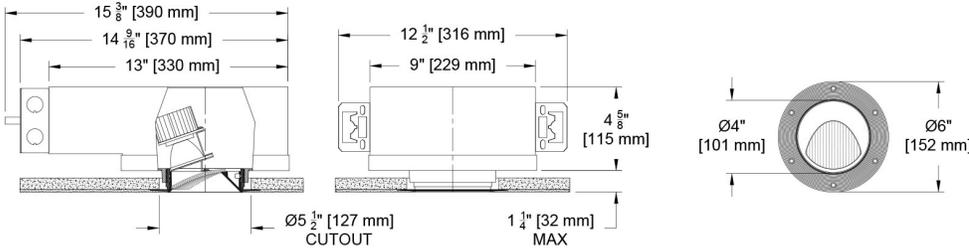
Round Flanged Housing — Flanged Mount (U/AU)

(CR4WW-RF-F-U/AU)

15 $\frac{3}{8}$" [390 mm]
14 $\frac{9}{16}$" [370 mm]
13" [330 mm]
12 $\frac{1}{2}$" [316 mm]
9" [229 mm]
5 $\frac{1}{4}$" [133 mm]
Ø4 $\frac{5}{16}$" [110 mm] CUTOUT
$\frac{7}{8}$" [22 mm] MAX
Ø4" [101 mm]
Ø5" [127 mm]

10 $\frac{1}{16}$" [256 mm]
4 $\frac{1}{2}$" [114 mm]
8 $\frac{13}{16}$" [224 mm]
C28 HOUSING
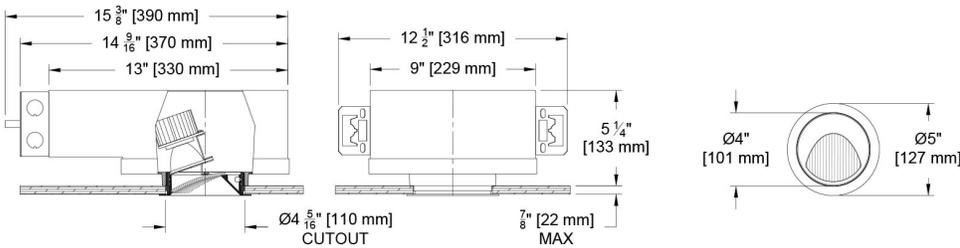
Round Flangeless Housing — Panel Mount (PM)

(CR4WW-RF-Z-PM)

15 $\frac{3}{8}$" [390 mm]
14 $\frac{9}{16}$" [370 mm]
13" [330 mm]
12 $\frac{1}{2}$" [316 mm]
9" [229 mm]
5 $\frac{1}{4}$" [133 mm]
$\frac{7}{8}$" [22 mm] MAX
Ø4" [101 mm]

14" [356 mm] - 26" [660 mm]
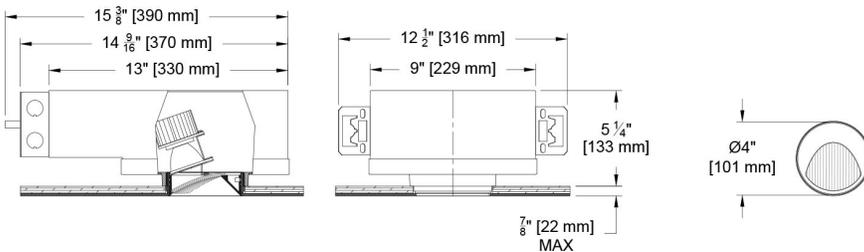
Round Housing for — (P) (U) (PM) C28 Only*

(CR4WW-RF-F/Z-P/U/PM-C28)

14 $\frac{1}{8}$" [358 mm]
13 $\frac{5}{16}$" [338 mm]
11 $\frac{3}{4}$" [298 mm]
12 $\frac{1}{2}$" [316 mm]
9" [229 mm]
7 $\frac{1}{8}$" [181 mm]
6 $\frac{1}{2}$" [165 mm]

Panel Mount Detail

Ø4 $\frac{1}{16}$" [103 mm]
Ø4 $\frac{5}{16}$" [110 mm]
$\frac{1}{8}$" [3 mm] MIN - $\frac{1}{4}$" [6 mm] MAX
$\frac{7}{8}$" [22 mm] MAX

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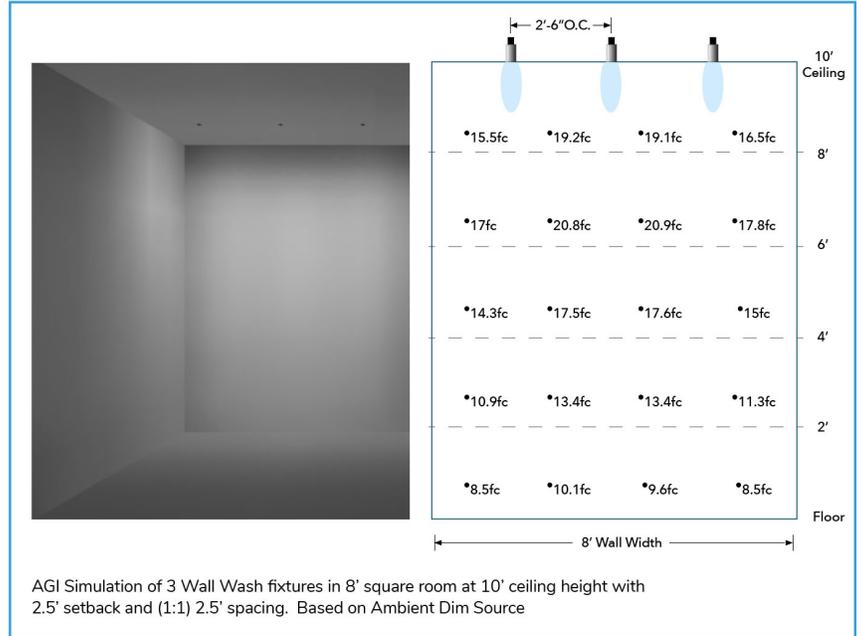Tel. 732.517.0800 | Fax 732.517.0971

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.

Round Wall Wash (CR4WW-RF)			
Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt
Citizen C14	14	833	60
Citizen C20	20	1056	53
Citizen C28*	31	1616	53
Ambient Dim A14	14	578	40

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

All data based on 3000k. See Multipliers for other CCT. Ambient Dim based on 3000k at full output. *C28 requires active cooling and cannot be used with IC housing or Chicago Plenum
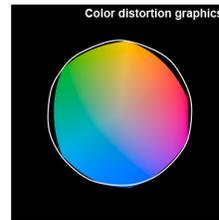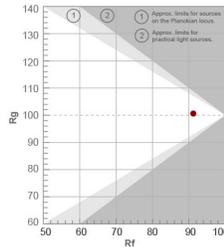
34.1°

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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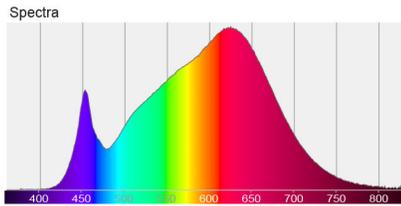
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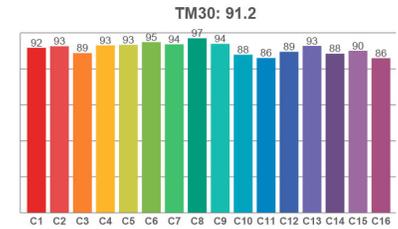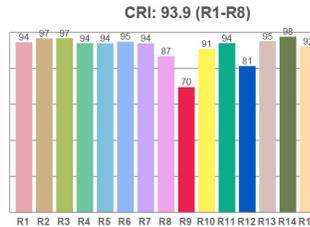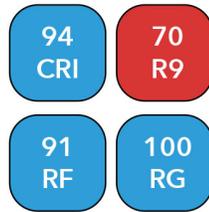Tel. 732.517.0800 | Fax 732.517.0971

Color Data

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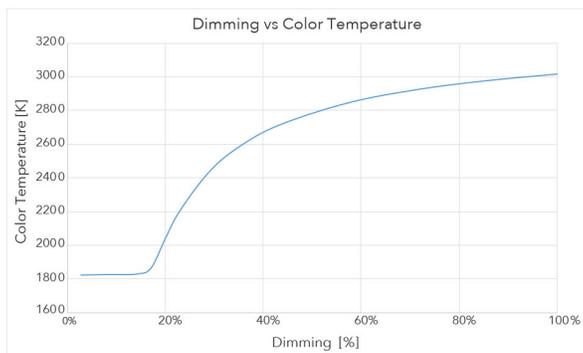
Citizen Sources - C14, C20 and C28

- <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
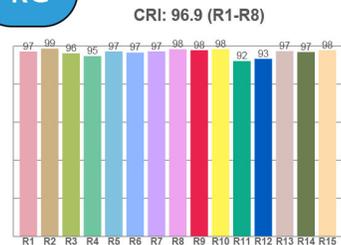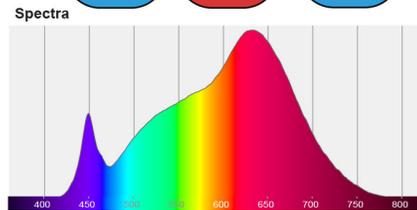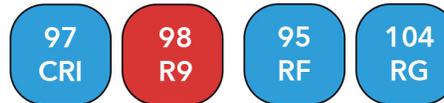
Spectra

Color distortion graphics
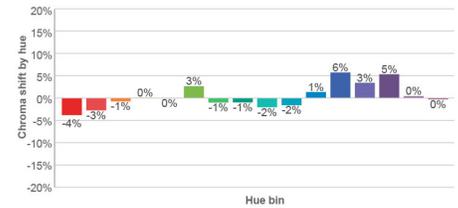
Ambient Dim - 3000k to 1900k

- <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)

1850 CCT 5% Output

93 CRI · **72 R9** · **83 RF** · **110 RG**

Spectra

CRI: 92.6 (R1-R8)

Dimming vs Color Temperature

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