# The Core Family

Welcome to the Core line of fixtures. You will find a rich diversity of technical and aesthetic options including 3 trim apertures, over 14 finishes including custom wood trims, flux and source selections featuring 90+ CRI fixed white and our world class Ambient Dim (Warm Dim), multiple beam spreads and plethora of driver and control choices. The Core adjustable 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.
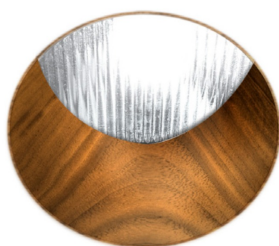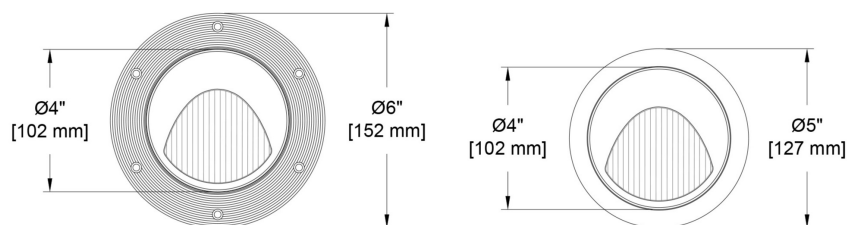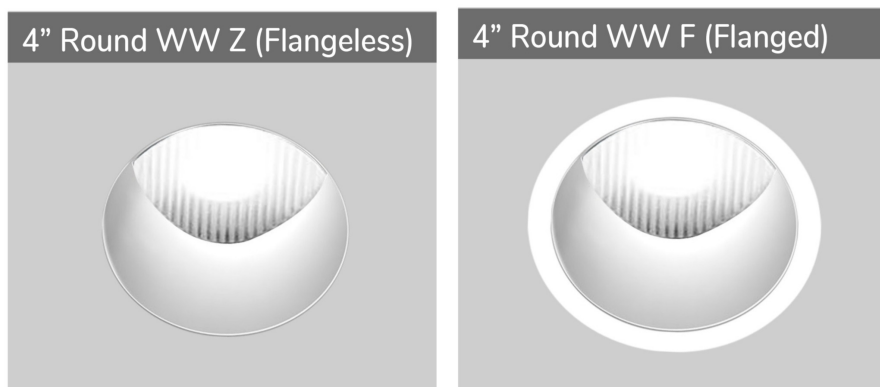
PROJECT: TYPE:

SPECIFIER: DATE:

Key Points (CR4WW-RA)

Trim
- Flanged 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
- 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
- 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 2751 delivered lumens.
- Adjustable to 45º with 360º of rotation.

Housing
- **TITLE 24** Compliant to **JA8** with Airtight Housing
- 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
- Phase, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015
- Prewired and integral to housing
- Universal 120-277v

4" Round WW Z (Flangeless)

4" Round WW F (Flanged)

Ø4" [102 mm]   Ø6" [152 mm]

Ø4" [102 mm]   Ø5" [127 mm]

Wood Trim Available

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1306 Doris Ave., Ocean, NJ 07712
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Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR4WW-RA-F-AU-C20-35-24-E2-P14-CA

FIXTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	DRIVER / CONTROL	TRIM FINISH	ACCESSORIES
CR4WW-RA							
Core 4" Round Adjustable 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 Requred	**Flanged Housings** **U** Universal - Non-IC Housing **AU** ●● Universal IC/Airtight* **Flangeless Housings** **P** Plaster - Non-IC Housing **AP** ●● Plaster IC/Airtight* **PM** Panel Mount **APM** ●● Panel Mount Airtight/IC* ●● Supports CA Title24 compliance	**Citizen** **C14** ●● 15W 833Lm 90+CRI, 60+R9 **C20** ●● 20W 1056Lm 90+CRI, 60+R9 **C28** 30W* 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** 15W 90+CRI, 60+R9 **Ambient Dim™** **A14** ●● 15W 578Lm 95+CRI, 90+R9 **A20** ●● 21W 1050Lm 90+CRI, 68+R9 ●● Supports CA Title 24 Compliance to JA8 except in flat aperture ~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* **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	**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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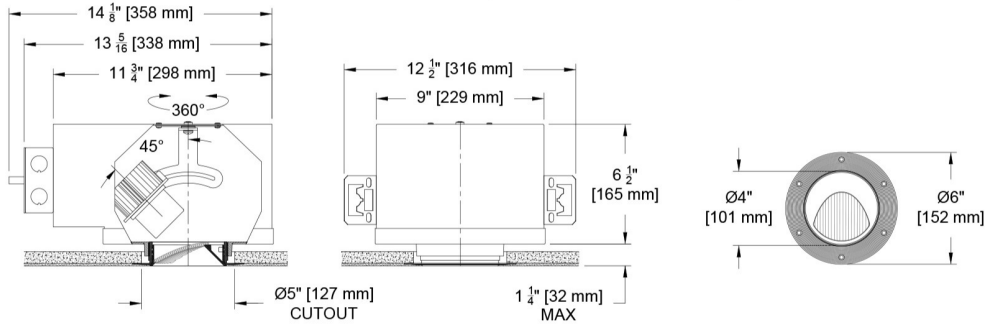1306 Doris Ave., Ocean, NJ 07712
Tel. 732.517.0800 | Fax 732.517.0971

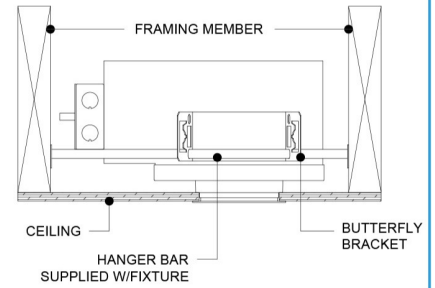# Ceiling Cutouts and Dimensions
Deep Regress Shown - others similar

Round Flangeless Housing — Plaster Mount (P/AP)

(CR4WW-RA-Z-P/AP)

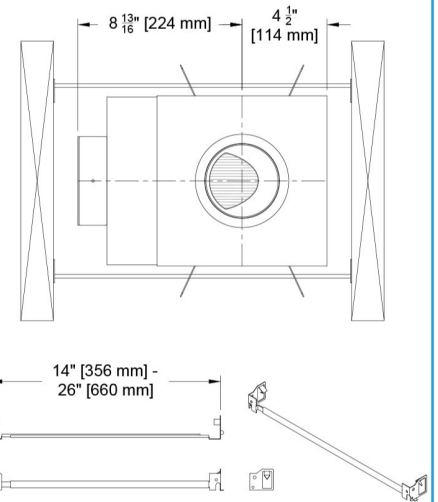

Hanger Bar Detail

Round Flanged Housing — Flanged Mount (U/AUA)

(CR4WW-RA-F-U/AU)
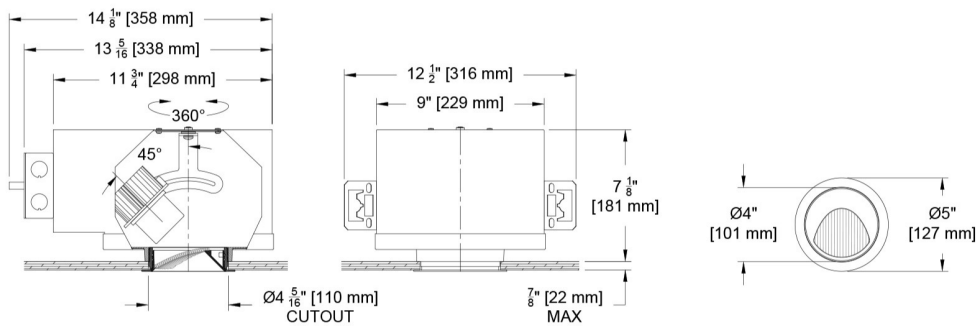
Round Flangeless Housing — Panel Mount (PM)

(CR4WW-RA-Z-PM)

Panel Mount Detail

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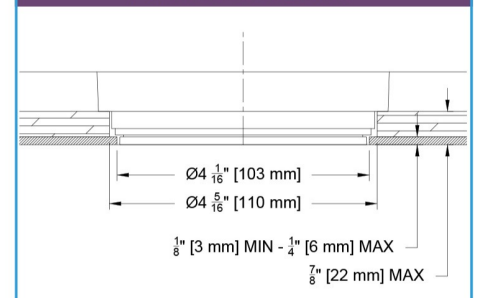
Photometric Table

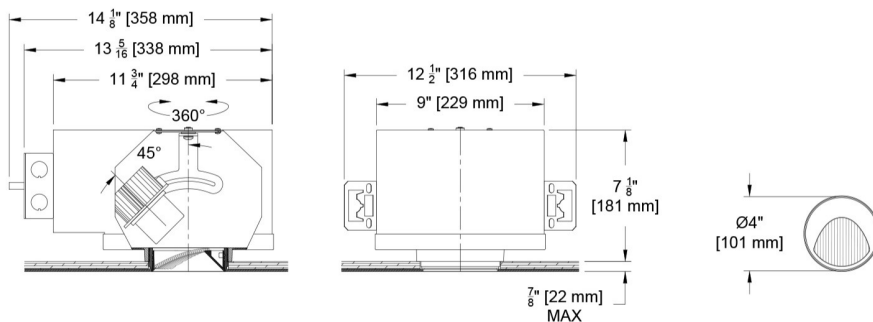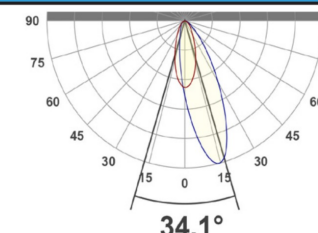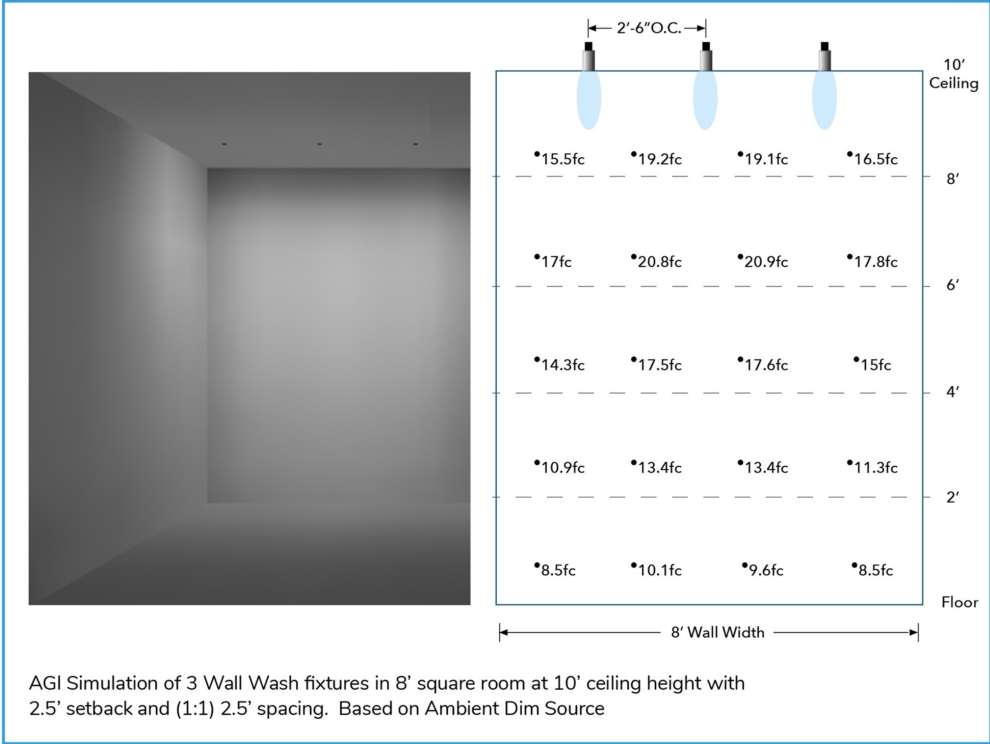All data is based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range. Measurements at 3000 CCT

ROUND WW (CR4WW-RA) Beamspreads				35.6°	ISO CD Plot			
Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt				CCT Multplier	
Citizen C14	14	833	60				2700	.95
Citizen C20	20	1056	53				3000	1.00
Citizen C28*	31	1616	53				3500	1.02
Ambient Dim A14	14	578	40				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

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

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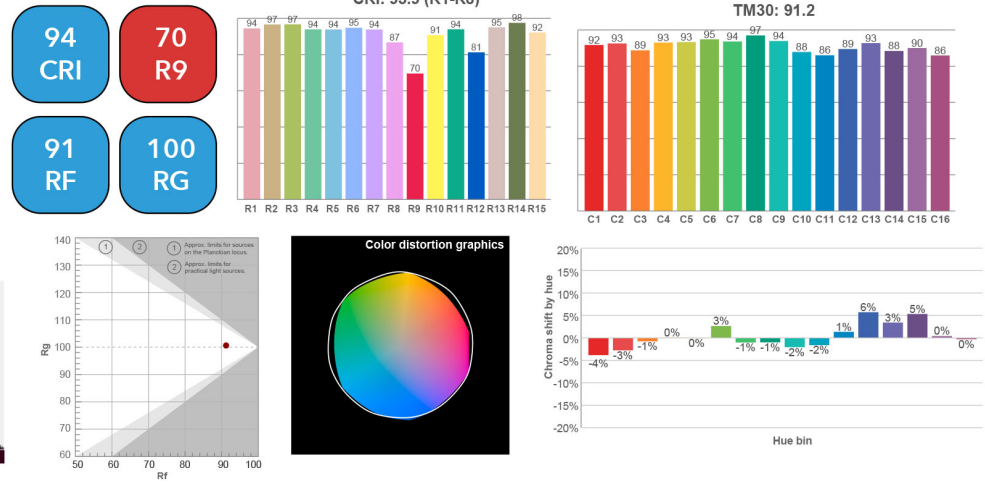1306 Doris Ave., Ocean, NJ 07712
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Color Data

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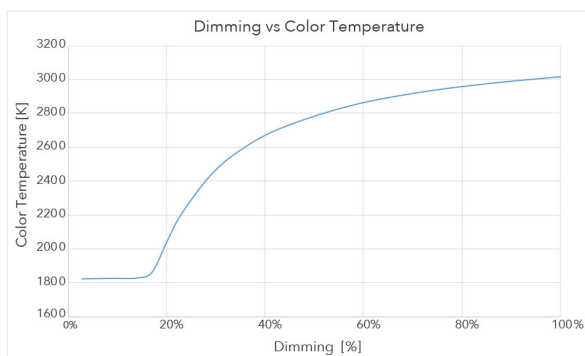
Citizen Sources - C14, C20 and C28

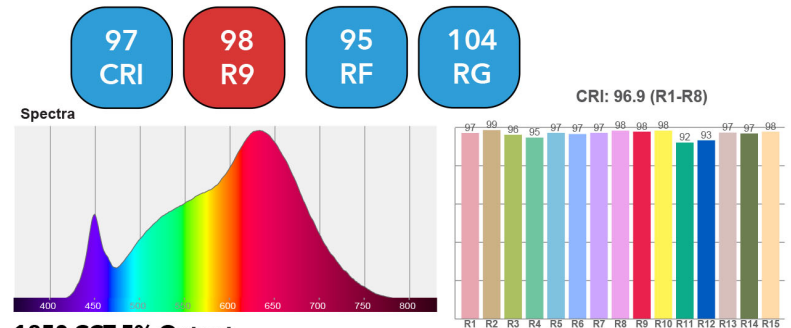- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

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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