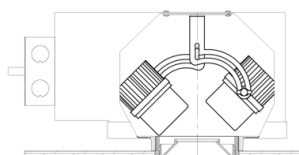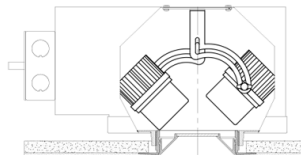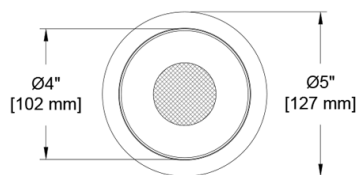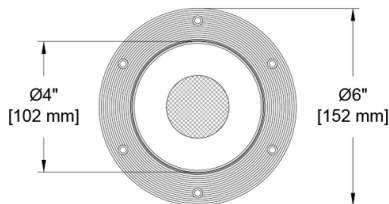**Specialty** lighting industries

The Core Family

Welcome to the Core line of fixtures. The family is filled with a rich diversity of options while keeping classic forms. This family member features two adjustable heads deployed within a single round optical aperture of your choosing. The unique configuration allows down and accent lighting with 360° rotation and 45° tilt within a single ceiling element. With multiple source, driver, control, mounting and finish options, including wood trim, you should find the option you are looking for. If not, let us know the modification you need, we usually say YES.

Key Points (CR4MD-RDH)

Trim
- Flanged or Flangeless
- Flangeless includes plaster flange with lip
- 14 color options + custom/RAL or wood available
- One-piece die cast aluminum or machined wood trim

Source / Optics
- 2400K, 2700K, 3000K, 3500K, 4000K Ambient Dim, RGBW & Tunable White options
- 90 CRI , 60+ R9 Standard- 95 CRI 90+R9 aptional with Ambient Dim
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 1260 delivered lumens for single head
- Adjustable to 45º with 358º of rotation for both heads
- 4 beamspreads available- 15º, 24º, 40º, and 55º

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
- 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 unless otherwise noted

4" Round Z (Flangeless)	4" Round F (Flanged)

Ø4" [102 mm]   Ø6" [152 mm]
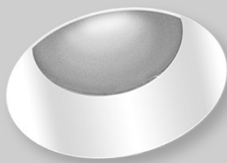
Ø4" [102 mm]   Ø5" [127 mm]

Aperture Options

Dual Head Deep Regress (DR)
2" Optical Aperture

Dual Head Flat (pinhole) (FL)
2" Optical Aperture

Dual Head Open Regress (OR)
3" Optical Aperture

Wood Finish Available
with All apertures options

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Core 4" Round Dual Head Adjustable Downlight (102mm)
Adjustable Recessed Accent/Downlight

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Ordering Codes

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: CR4MD-RDH-DR-Z-AU-A14-AD-24-E2-2C-P16-92A-91L-97L-CP

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	CIRCUITS	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4MD-RDH											
Core 4" Round Dual Head Adjustable Downlight	**DR** Dual Head Deep Regress **OR** Dual Head Open Regress **FL** Dual Head Flat (Pin Hole)	**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	**U** Universal - Non-IC Housing **AU** Universal IC/Airtight **P** Plaster - Non-IC Housing **AP** Plaster IC/Airtight **PM** Panel Mount - Non-IC Housing **APM** Panel Mount Airtight/IC California Title Compliant Note: Selection of EldoLED or Lutron driver requires a larger housing - see drawings	**Citizen** **C14** ●● 15W 1074Lm 90+CRI, 60+R9 **Tunable** **T9** 90+CRI, 60+R9 *Tunable White* **T14** 90+CRI, 60+R9 *Tunable White* **RGBW** 90+CRI, 60+R9 **Ambient Dim™** **A14** ●● 15W 1001Lm 95+CRI, 90+R9 ●● California Title 24 Compliant to JA8	**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 **3019** 3000-1900K **3022** 3000-2200K	**15** Spot **24** Narrow Flood **40** Flood **55** Wide Flood	**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 *Requires larger housing - see drawings on bottom of page 3	**1C** 1 Circuit **2C** 2 Circuit	**W** White Paint **B** Black Paint **D** Wood* **PXX** Specialty Paint Color* P01-P15 **C** Custom/RAL Color** * See Wood Trim Guide ** Refer to Finish Guide (FINISH GUIDE LINK) (WOOD TRIM GUIDE)	**Aperture Lens** **91A** Solite **93A** Frosted **XXA** Other Aperture Lens Treatments* **Reflector (lamp) Media** **91L** Solite **93L** Frosted **97L** Black Hexcel Louver **XXL** Other reflector (lamp) media* 1 piece of media per opening (aperture or reflector) can be selected. *See Lens Accessory Guide (LENS ACCESSORY VISUAL GUIDE LINK)	**CP** Chicago Plenum **EM** Emergency Pack **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" Round Dual Head Adjustable Downlight (102mm)
Adjustable Recessed Accent/Downlight

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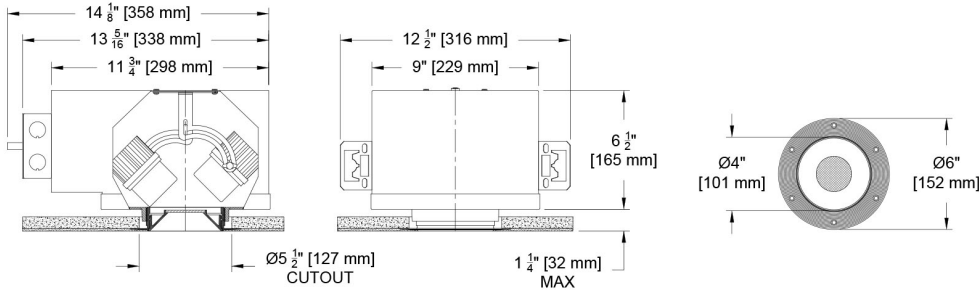
Ceiling Cutouts and Dimensions
Deep Regress Shown - other apertures similar

A Lutron or Eldoled driver selection requires a larger housing to accommodate packaging and wiring of "K-can" size driver. See drawing at bottom of page for housing dimensions utilizing the "K-can" size drivers.
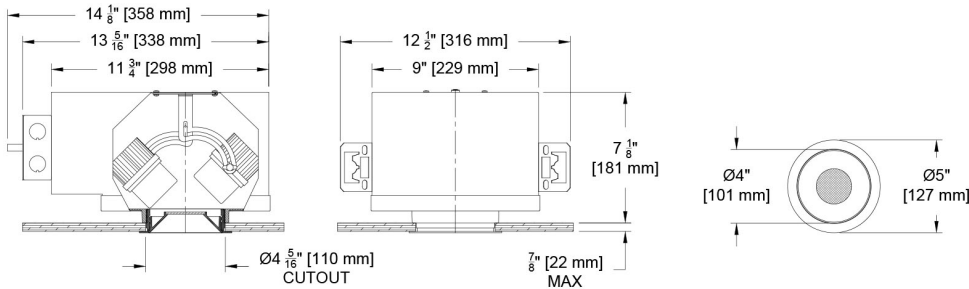
Round Flangeless Housing — Plaster Mount (P/AP)
(CR4MD-RDH-DR-Z-P/AP)

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]
6 $\frac{1}{2}$" [165 mm]
Ø4" [101 mm]
Ø6" [152 mm]
Ø5 $\frac{1}{2}$" [127 mm] CUTOUT
1 $\frac{1}{4}$" [32 mm] MAX

Round Flanged Housing — Flanged Mount (U/AU)
(CR4MD-RDH-DR -F-U/AU)

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]
Ø4" [101 mm]
Ø5" [127 mm]
Ø4 $\frac{5}{16}$" [110 mm] CUTOUT
$\frac{7}{8}$" [22 mm] MAX

Round Flangeless Housing — Panel Mount (PM/APM)
(CR4MD-RDH-DR -Z-PM/APM)

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]
Ø4" [101 mm]
$\frac{7}{8}$" [22 mm] MAX

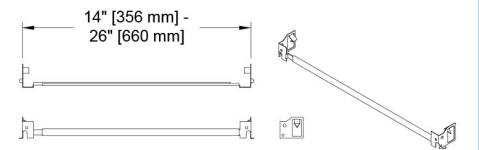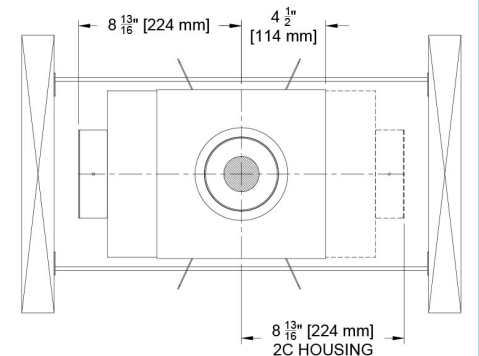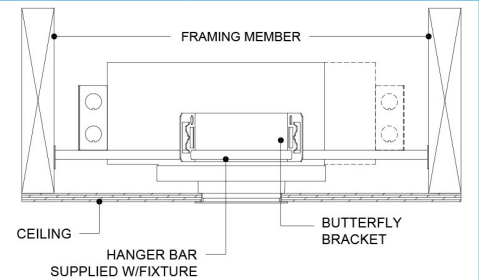## Round Housing for — Eldo or Lutron Driver Selection
(CR4MD-RDH-_-_-C14-30-24-E1-2C)

19 $\frac{1}{4}$" [489 mm]
17 $\frac{5}{8}$" [448 mm]
14 $\frac{1}{2}$" [368 mm]
12 $\frac{1}{2}$" [316 mm]
9" [229 mm]
7 $\frac{1}{8}$" [181 mm]
6 $\frac{1}{2}$" [165 mm]

Hanger Bar Detail

FRAMING MEMBER
CEILING
HANGER BAR SUPPLIED W/FIXTURE
BUTTERFLY BRACKET

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

14" [356 mm] - 26" [660 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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Core 4" Round Dual Head Adjustable Downlight (102mm)
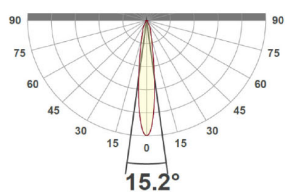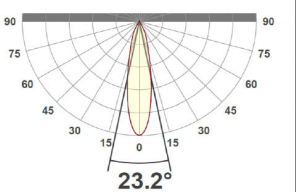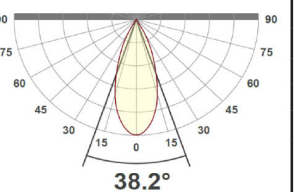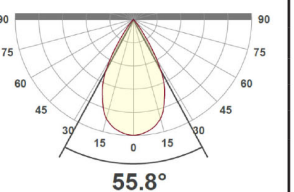
Adjustable Recessed Accent/Downlight

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Photometric Table

All data is based from goniometer measurements of production representative product. All lumen values are delivered or derived and can vary +/- 10% from LED manufacturer rated flux range. Measurements at 3000 CCT and Ambient Dim at full output. Photometric values based on a single head fixture. Multiple heads will deliver additional light and will need to be accounted for individually in calculations. Due to thermal and space considerations, our maximum power is 15 system watts. If higher lumen packages are desired in this configuration, contact your Regional Sales Manager for a custom request.

ROUND Beamspreads	Source	System watts (W)	15° Delivered Lumens (lm)	15° Lumens/Watt	15° Peak CD	15° 10% Field	24° Delivered Lumens (lm)	24° Lumens/Watt	24° Peak CD	24° 10% Field	40° Delivered Lumens (lm)	40° Lumens/Watt	40° Peak CD	40° 10% Field	55° Del. Lumens (lm)	55° Lumens/Watt	55° Peak CD	55° 10% Field
Deep Regress	Citizen C14	15	1149	77	7832	42°	1074	72	4247	46°	1117	74	2867	51°	1098	73	1416	71°
Deep Regress	Ambient Dim A14	15	882	59	7188	38°	858	57	4167	44°	801	53	2027	57°	844	56	1286	70°
Open Regress	Citizen C14	15	1267	84	7877	42°	1179	79	4203	52°	1183	79	2421	66°	1199	80	1533	75°
Open Regress	Ambient Dim A14	15	1001	67	7323	39°	987	66	4067	53°	991	66	2235	60°	969	65	1281	72°
Flat (Pin Hole)	Citizen C14	15	824	55	7851	37°	716	48	4844	46°	700	47	2801	51°	623	42	1370	64°
Flat (Pin Hole)	Ambient Dim A14	15	747	50	7305	36°	702	47	4077	42°	678	45	2247	50°	622	41	1076	63°

CCT Multiplier

CCT	Citizen
2700	0.95
3000	1.00
3500	1.02
4000	1.03

All measurements based on 3000 CCT. Ambient Dim based on full output.
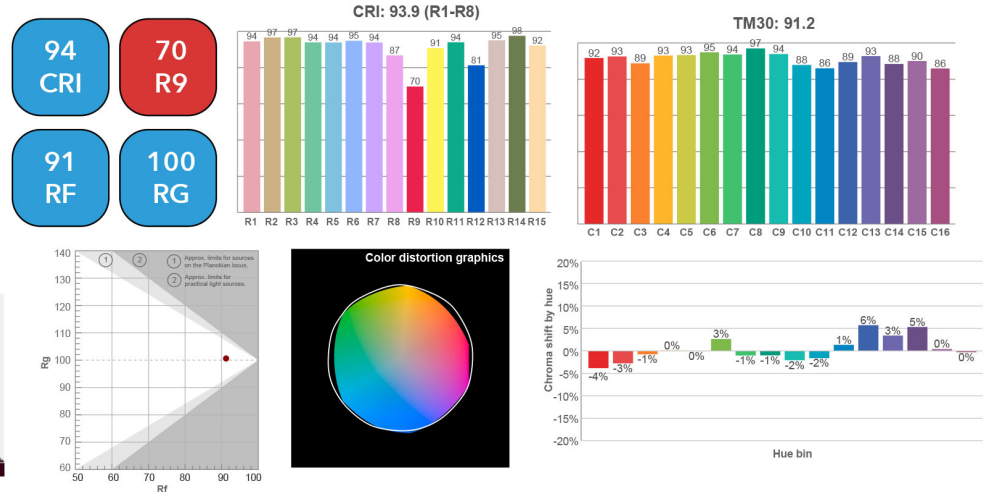

15.2°

23.2°

38.2°

55.8°

ISO CD Plot based on open Regress. All data based on delivered or derived delivered lumens at 3000k. Ambient dim at full output. *C28 source requires active cooling with larger NIC housing.
Flat (Pin Hole) aperture wider beams experience significant beam clipping - refer to PDF report for exact FWHM beam angle.

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Color Data

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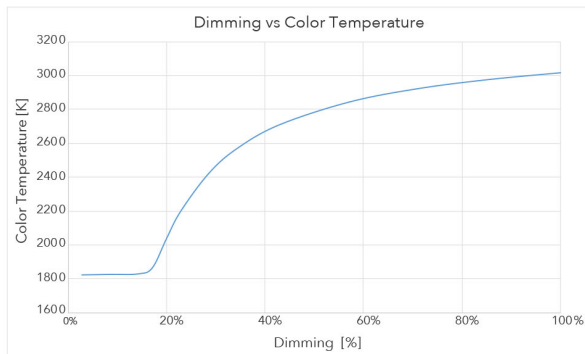
Citizen Source - C14

- <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
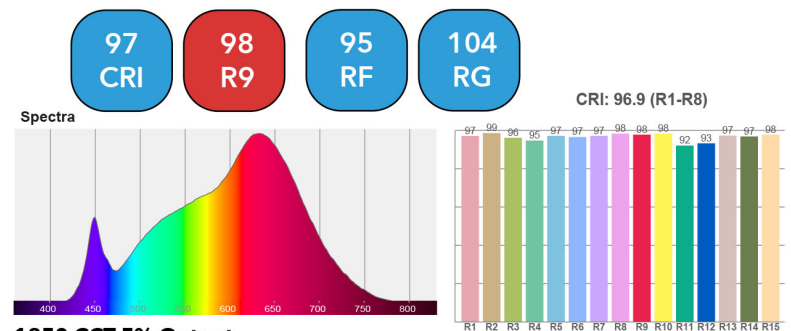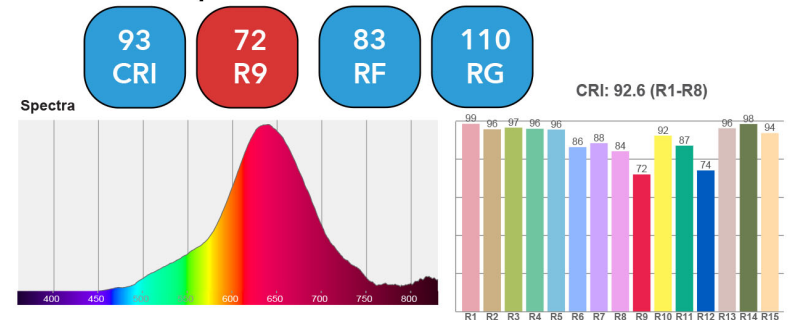

Chroma shift by hue

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)

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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Tunable White and RGBW
Color and flux information available upon request

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