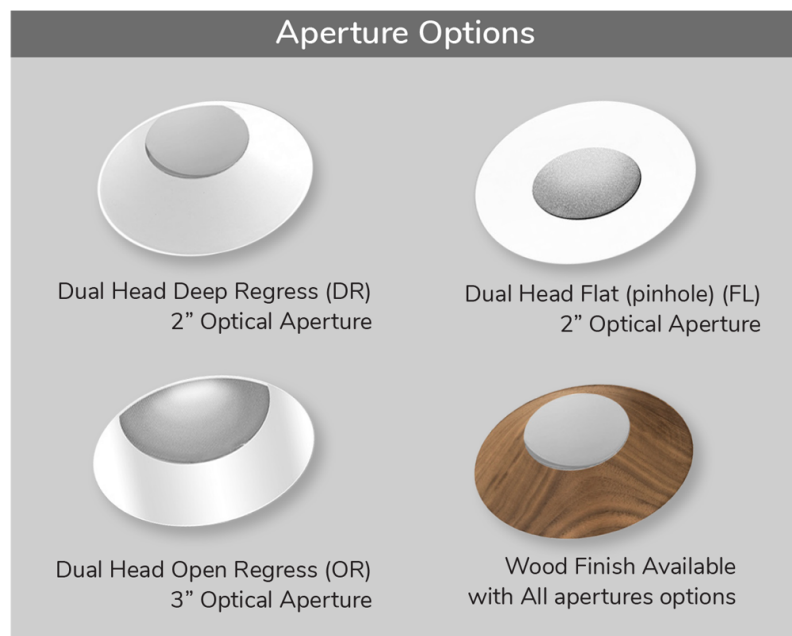
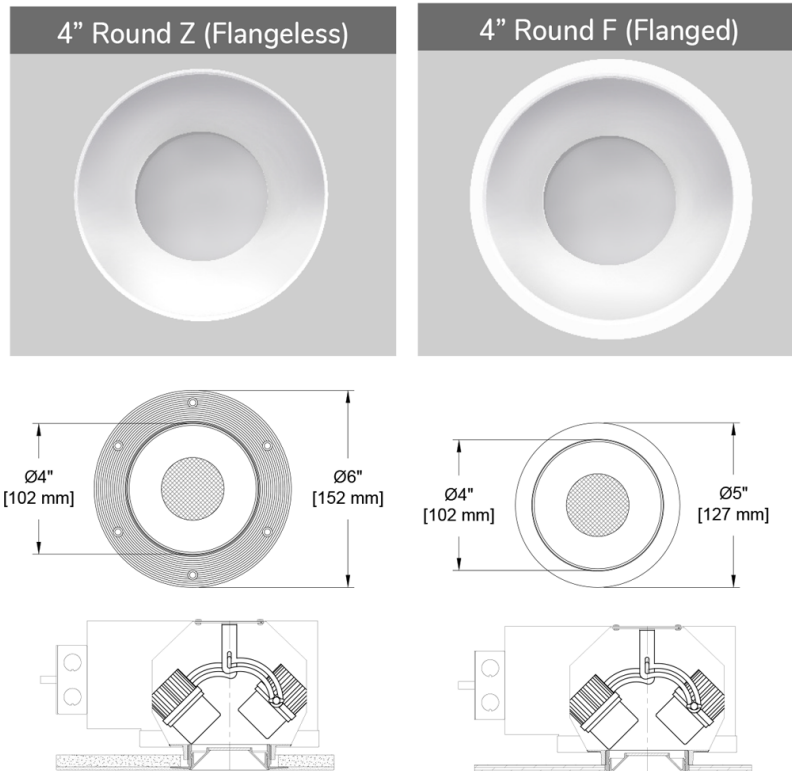


## The Core Family

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.



PROJECT:

TYPE:

SPECIFIER:

DATE:

### 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 optional with Ambient Dim
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 1260 delivered lumens for single head
- Adjustable to 45° with 358° of rotation for both heads
- 4 beamspreads available- 15°, 24°, 40°, and 55°

#### Housing

- **ETL** **24** Compliant to **JA8** with Airtight Housing
- **UL** 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

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<br><br>OR Dual Head Open Regress<br><br>FL Dual Head Flat (Pin Hole) | Flanged Trims<br><br>F Flanged Trim<br><br>FS Flanged Shower Trim*<br><br>(for mounting choose from Flanged Housings)<br><br>Flangeless Trims<br><br>Z Flangeless Trim<br><br>ZS Flangeless Shower Trim*<br><br>(for mounting choose from Flangeless Housings)<br><br>* Aperture Lens Required | U Universal - Non-IC Housing<br><br>AU Airtight Universal IC-Rated<br><br>P Plaster - Non-IC Housing<br><br>AP Airtight Plaster IC-Rated<br><br>PM Panel Mount - Non-IC Housing<br><br>APM Airtight Panel Mount IC-Rated<br><br>California Title Compliant Note: Selection of EdoLED or Lutron driver requires a larger housing - see drawings | Citizen<br><br>C14 15W 1074Lm 90+CRI, 60+R9<br><br>Tunable<br><br>T9 90+CRI, 60+R9 Tunable White<br><br>T14 90+CRI, 60+R9 Tunable White<br><br>RGBW 90+CRI, 60+R9<br><br>Ambient Dim™<br><br>A14 15W 1001Lm 95+CRI, 90+R9<br><br>California Title 24 Compliant to JA8 | 24 2400K<br><br>27 2700K<br><br>30 3000K<br><br>35 3500K<br><br>40 4000K<br><br>Tunable<br><br>TW1840 1800-4000K Tunable White w/ E1, E2, E3, E4<br><br>TW2765 2700-6500K Tunable White w/ E1, E2, E3, E4<br><br>RG1280 1200-8000K RGBW Dynamic Color Changing *Requires E2 or E4<br><br>Ambient Dim™<br><br>2722 2700-2200K<br><br>3019 3000-1900K<br><br>3022 3000-2200K | 15 Spot<br><br>24 Narrow Flood<br><br>40 Flood<br><br>55 Wide Flood | C1 0-10 1.0%, UNV (120-277V) linear<br><br>C2 ELV/Triac 1.0%, (120V) linear<br><br>E1 0-10* 0.1%, UNV (120-277V) log<br><br>E2 DALI-2 0.1%, UNV (120-277V) log<br><br>E3 0-10* 0.1%, UNV (120-277V) linear<br><br>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<br><br>TR2 TruPhase™ 0.1%, (120-120V) log Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only<br><br>LD Digital Ecosystem* 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1<br><br>*Requires larger housing - see drawings on bottom of page 3 | 1C 1 Circuit<br><br>2C 2 Circuit | W White Paint<br><br>B Black Paint<br><br>D Wood*<br><br>PXX Specialty Paint Color* P01-P15<br><br>C Custom/RAL Color**<br><br>* See Wood Trim Guide<br>** Refer to Finish Guide<br><br>FINISH GUIDE LINK<br><br>WOOD TRIM GUIDE<br><br>LENS ACCESSORY VISUAL GUIDE LINK | Aperture Lens<br><br>91A Solite<br><br>93A Frosted<br><br>XXA Other Aperture Lens Treatments*<br><br>Reflector (lamp) Media<br><br>91L Solite<br><br>93L Frosted<br><br>97L Black Hexcel Louver<br><br>XXL Other reflector (lamp) media*<br><br>1 piece of media per opening (aperture or reflector) can be selected.<br>*See Lens Accessory Guide | CP Chicago Plenum<br><br>EM Emergency Pack* *Remote Required<br><br>BABA BABA Compliant BABA Products<br><br>CA Casambi Wireless BLE to be paired with driver<br><br>Controls<br><br>LR Lutron Wireless RF PowPak<br><br>ATH Lutron Athena Wireless Node<br><br>Must be used with E2 driver |

## Ceiling Cutouts and Dimensions

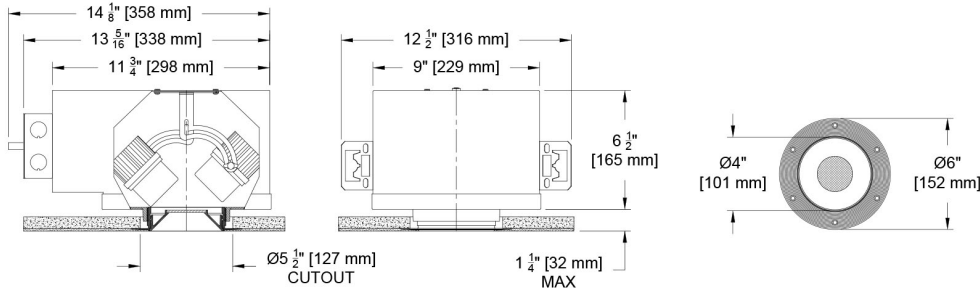
Deep Regress Shown - other apertures similar

A Lutron or Eldoed 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)

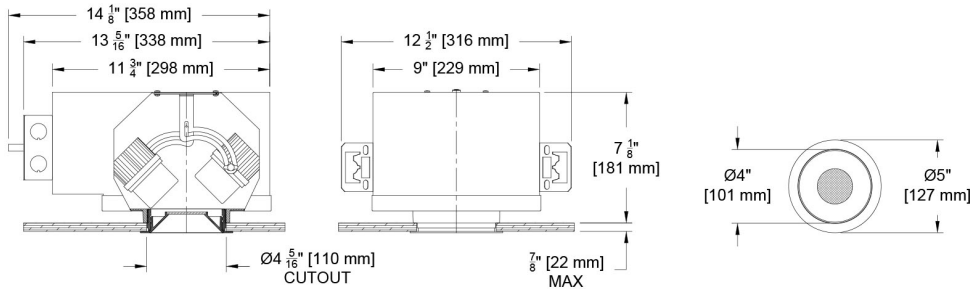
(CR4MD-RDH-DR-Z-P/AP)



### Round Flanged Housing

### Flanged Mount (U/AU)

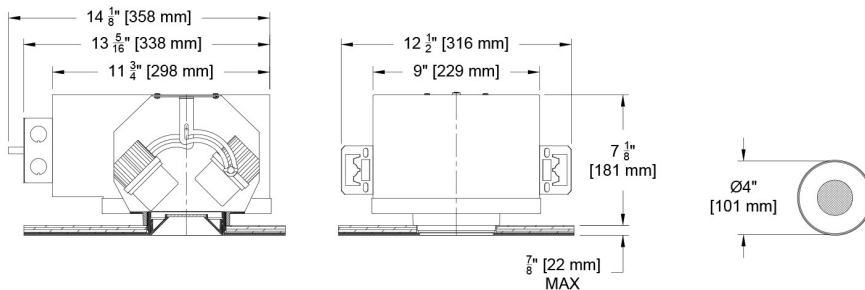
(CR4MD-RDH-DR-F-U/AU)



### Round Flangeless Housing

### Panel Mount (PM/APM)

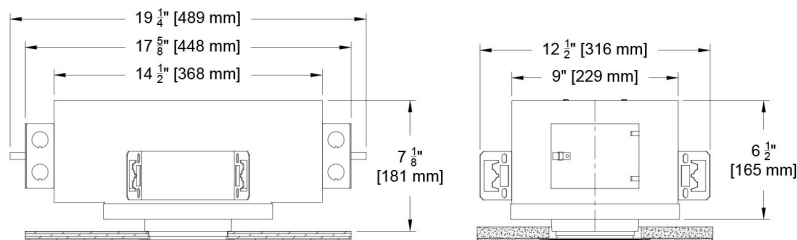
(CR4MD-RDH-DR-Z-PM/APM)



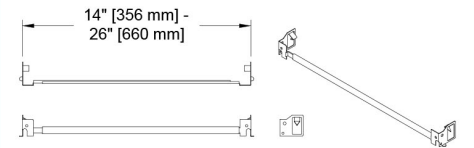
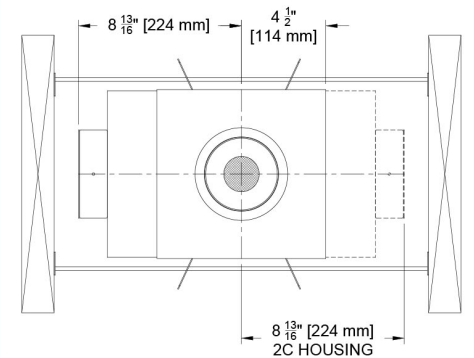
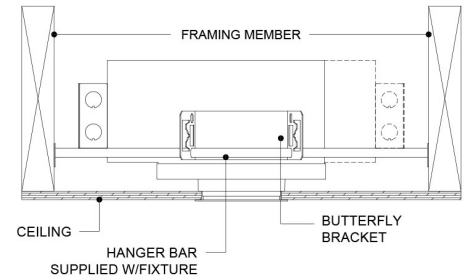
### Round Housing for

### Eldo or Lutron Driver Selection

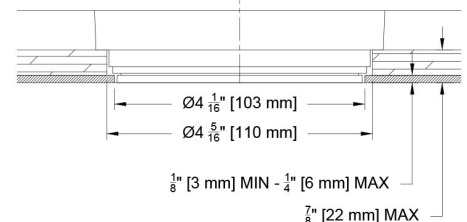
(CR4MD-RDH-\_-C14-30-24-E1-2C)



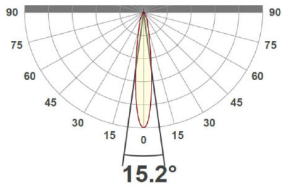
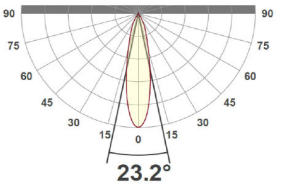
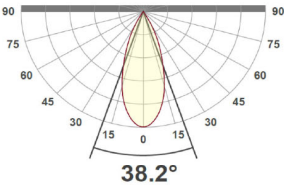
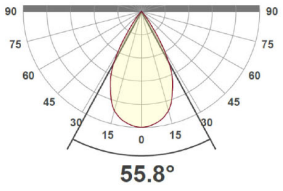
### Hanger Bar Detail



### Panel Mount Detail



**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<br>Beamspreads                                                  |                 |                     | 15°                                                                                 |                 |            |           | 24°                                                                                 |                 |            |           | 40°                                                                                  |                 |            |           | 55°                                                                                   |                 |            |           |
|-----------------------------------------------------------------------|-----------------|---------------------|-------------------------------------------------------------------------------------|-----------------|------------|-----------|-------------------------------------------------------------------------------------|-----------------|------------|-----------|--------------------------------------------------------------------------------------|-----------------|------------|-----------|---------------------------------------------------------------------------------------|-----------------|------------|-----------|
| Source                                                                |                 | System<br>watts (W) | Delivered<br>Lumens<br>(lm)                                                         | Lumens/<br>Watt | Peak<br>CD | 10% Field | Delivered<br>Lumens<br>(lm)                                                         | Lumens/<br>Watt | Peak<br>CD | 10% Field | Delivered<br>Lumens<br>(lm)                                                          | Lumens/<br>Watt | Peak<br>CD | 10% Field | Del.<br>Lumens<br>(lm)                                                                | Lumens/<br>Watt | Peak<br>CD | 10% Field |
| Deep Regress                                                          | Citizen C14     | 15                  | 1149                                                                                | 77              | 7832       | 42°       | 1074                                                                                | 72              | 4247       | 46°       | 1117                                                                                 | 74              | 2867       | 51°       | 1098                                                                                  | 73              | 1416       | 71°       |
|                                                                       | 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°       |
|                                                                       | 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°       |
|                                                                       | 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. |                 |                     |                                                                                     |                 |            |           |                                                                                     |                 |            |           |                                                                                      |                 |            |           |                                                                                       |                 |            |           |

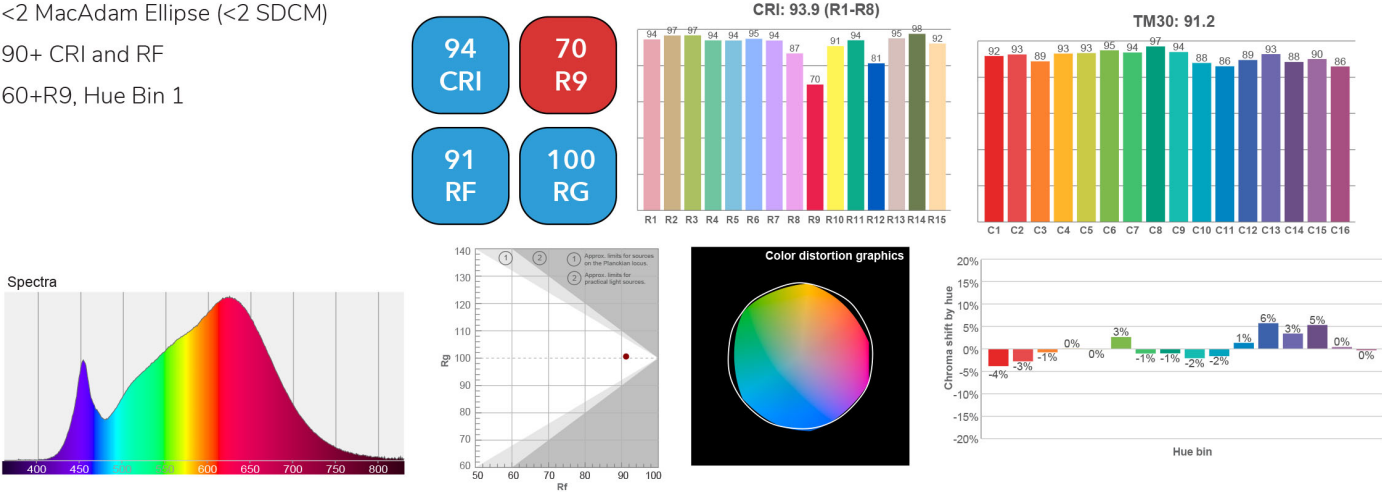
ISO CD Plot based on open Regress. All data based on delivered or derived delivered lumens at 3000k. Ambient dim at full output. \*C28 source requires active cooling with larger NIC housing.  
Flat (Pin Hole) aperture wider beams experience significant beam clipping - refer to PDF report for exact FWHM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

Color Data

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

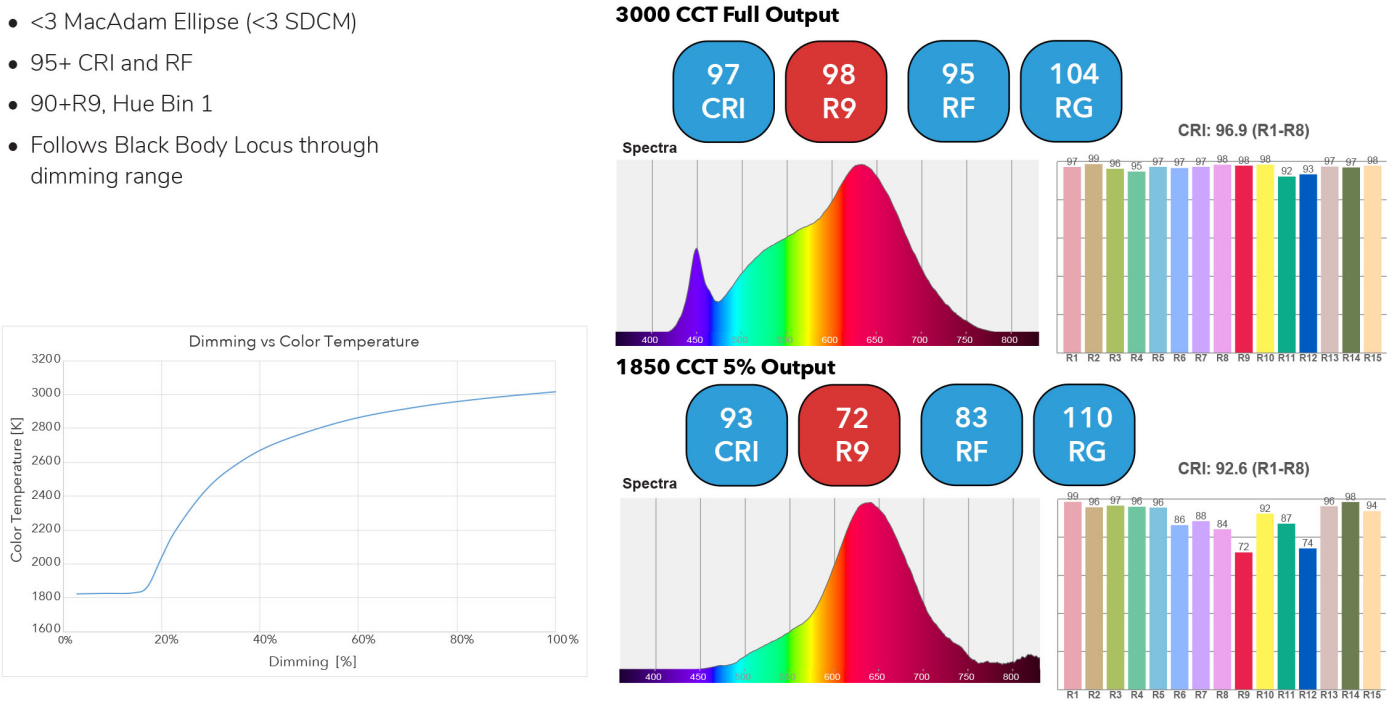
Citizen Source - C14

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



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



## Tunable White and RGBW

Color and flux information available upon request