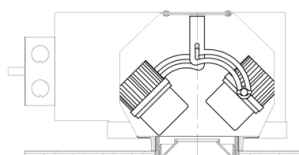
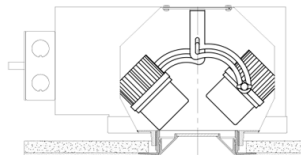
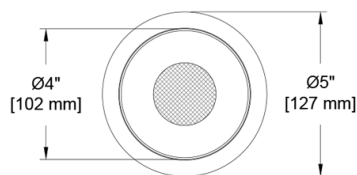
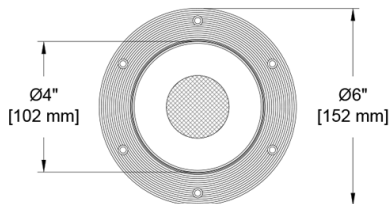
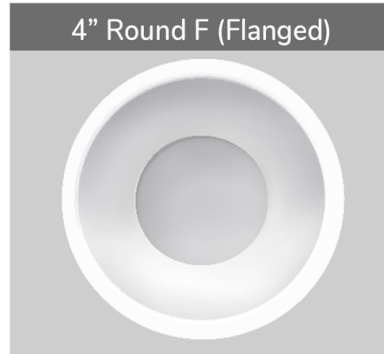


## The Core Family

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.



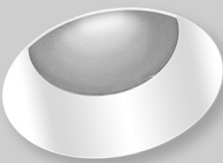
### Aperture Options



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

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

- Lifetime: L87B3>55,000 hours at 40°C Ambient
- 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

-  Compliant to  with Airtight Housing
-  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 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<br>Dual Head Deep Regress<br><br>OR<br>Dual Head Open Regress<br><br>FL<br>Dual Head Flat (Pin Hole) | Flanged Trims<br><br>F<br>Flanged Trim<br><br>FS<br>Flanged Shower Trim*<br><br>(for mounting choose from Flanged Housings)<br><br>Flangeless Trims<br><br>Z<br>Flangeless Trim<br><br>ZS<br>Flangeless Shower Trim*<br><br>(for mounting choose from Flangeless Housings)<br><br>* Aperture Lens Required | U<br>Universal - Non-IC Housing<br><br>AU<br>Universal IC/Airtight<br><br>P<br>Plaster - Non-IC Housing<br><br>AP<br>Plaster IC/Airtight<br><br>PM<br>Panel Mount - Non-IC Housing<br><br>APM<br>Panel Mount Airtight/IC<br><br>California Title Compliant Note: Selection of EldoLED or Lutron driver requires a larger housing - see drawings | Citizen<br><br>C14<br>15W<br>1074Lm<br>90+CRI, 60+R9<br><br>Tunable<br><br>T9<br>90+CRI, 60+R9<br>Tunable White<br><br>T14<br>90+CRI, 60+R9<br>Tunable White<br><br>RGBW<br>90+CRI, 60+R9<br><br>Ambient Dim™<br><br>A14<br>15W<br>1001Lm<br>95+CRI, 90+R9<br><br>California Title<br>24 Compliant to JA8 | 24<br>2400K<br><br>27<br>2700K<br><br>30<br>3000K<br><br>35<br>3500K<br><br>40<br>4000K<br><br>Tunable<br><br>TW1840<br>1800-4000K<br>Tunable White<br>w/ E1, E2, E3, E4<br><br>TW2765<br>2700-6500K<br>Tunable White<br>w/ E1, E2, E3, E4<br><br>RG1280<br>1200-8000K<br>RGBW Dynamic Color Changing<br>*Requires E2 or E4<br><br>Ambient Dim™<br><br>2722<br>2700-2200K<br><br>3019<br>3000-1900K<br><br>3022<br>3000-2200K | 15<br>Spot<br><br>24<br>Narrow Flood<br><br>40<br>Flood<br><br>55<br>Wide Flood | C1<br>0-10<br>1.0%, UNV (120-277V) linear<br><br>C2<br>ELV/Triac<br>1.0%, (120V) linear<br><br>E1<br>0-10*<br>0.1%, UNV (120-277V) log<br><br>E2<br>DALI-2<br>0.1%, UNV (120-277V) log<br><br>E3<br>0-10*<br>0.1%, UNV (120-277V) linear<br><br>E4 ^<br>DMX<br>0.1%, UNV (120-277V) Universal DMX Driver/Controller<br>RGBW-DMX ^ INCLUDES DMX/RDM<br>COMPATIBLE DRIVER WITH BUILT-IN DECODER - CONTROLLER BY OTHERS<br><br>Lutron<br><br>LD<br>Digital Ecosystem*<br>1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1<br><br>LP<br>Digital Ecosystem<br>0.1%, UNV (120-277V) ECO Premier Hi-Lume SoftOn/Fade-to-Black, PEQ0, 20W max<br><br>*Requires larger housing - see drawings on bottom of page 3 | 1C<br>1 Circuit<br><br>2C<br>2 Circuit | W<br>White Paint<br><br>B<br>Black Paint<br><br>D<br>Wood*<br><br>PXX<br>Specialty Paint Color*<br>P01-P15<br><br>C<br>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<br>Solite<br><br>93A<br>Frosted<br><br>XXA<br>Other Aperture Lens Treatments*<br><br>Reflector (lamp) Media<br><br>91L<br>Solite<br><br>93L<br>Frosted<br><br>97L<br>Black Hexcel Louver<br><br>XXL<br>Other reflector (lamp) media*<br><br>1 piece of media per opening (aperture or reflector) can be selected.<br>*See Lens Accessory Guide | CP<br>Chicago Plenum<br><br>EM<br>Emergency Pack<br><br>Controls<br><br>LR<br>Lutron Wireless RF PowPak<br><br>ATH<br>Lutron Athena Wireless Node<br>Must be used with E2 driver<br><br>CA<br>Casambi Wireless BLE to be paired with driver |

## Ceiling Cutouts and Dimensions

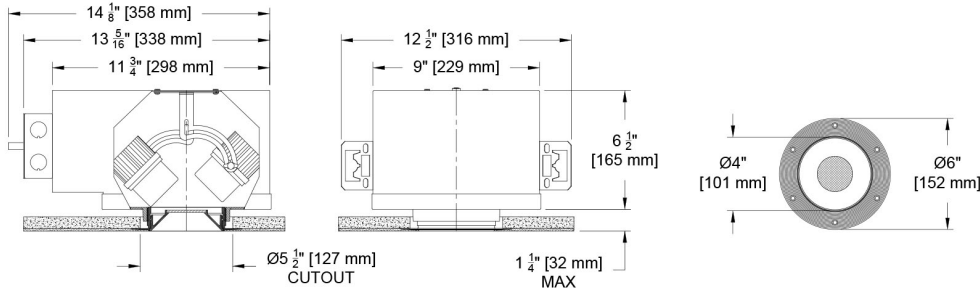
Deep Regress Shown - other apertures similar

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)

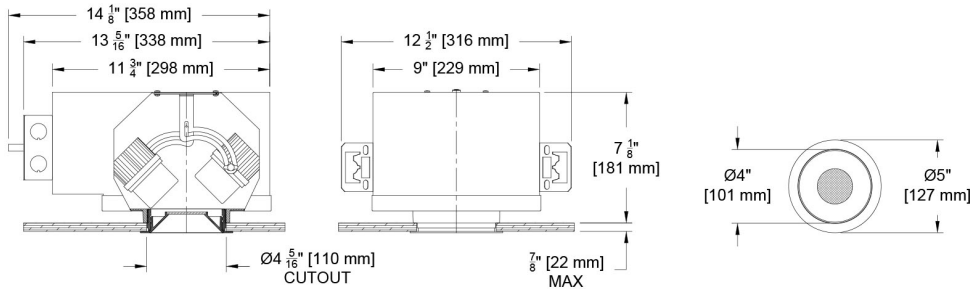
(CR4MD-RDH-DR-Z-P/AP)



### Round Flanged Housing

### Flanged Mount (U/AU)

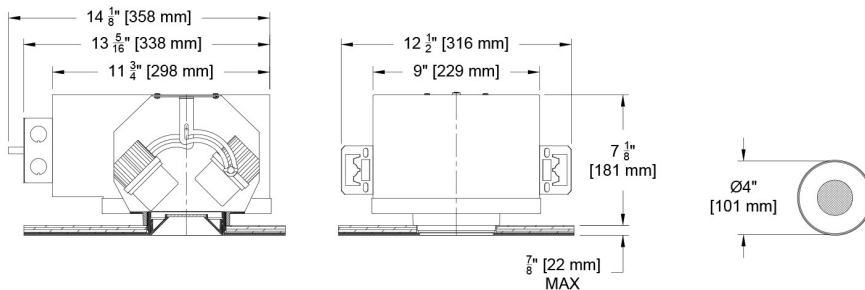
(CR4MD-RDH-DR-F-U/AU)



### Round Flangeless Housing

### Panel Mount (PM/APM)

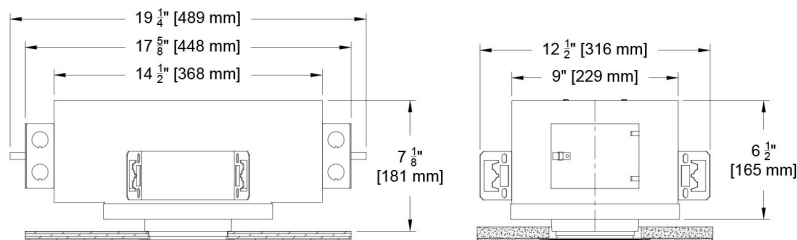
(CR4MD-RDH-DR-Z-PM/APM)



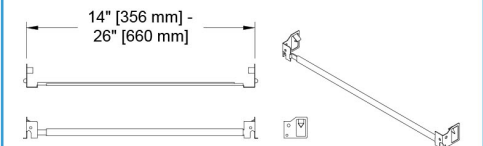
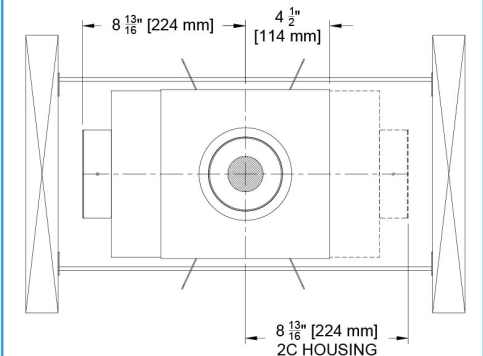
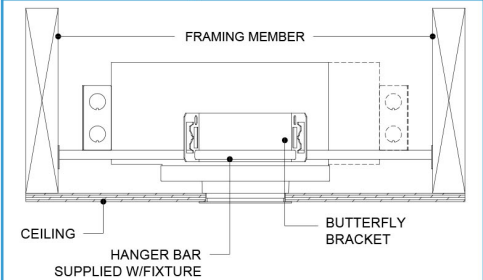
### Round Housing for

### Eldo or Lutron Driver Selection

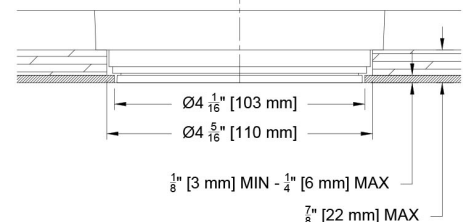
(CR4MD-RDH-\_-C14-30-24-E1-2C)



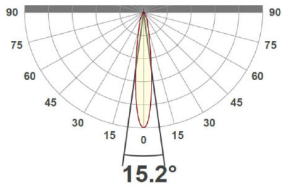
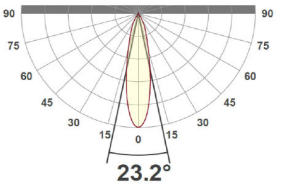
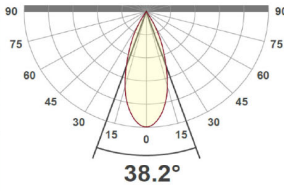
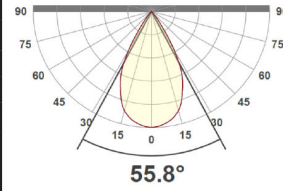
### Hanger Bar Detail



### 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. |                 |                     |                                                                                     |                 |            |           |                                                                                     |                 |            |           |                                                                                      |                 |            |           |                                                                                       |                 |            |           |

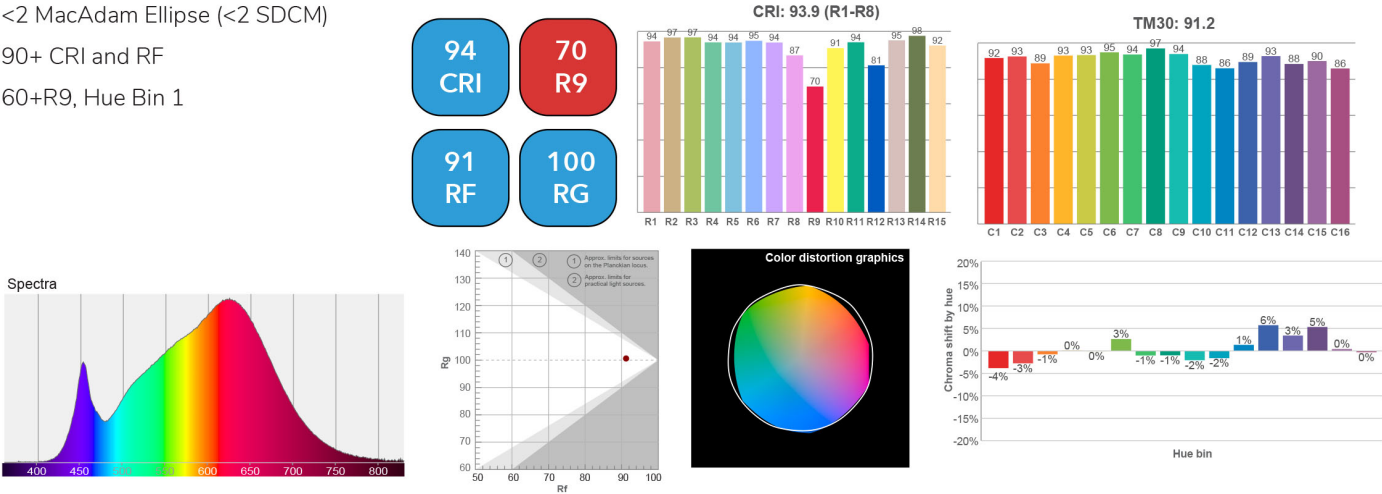
ISO CD Plot based on open Regress. All data based on delivered or derived delivered lumens at 3000k. Ambient dim at full output. \*C28 source requires active cooling with larger NIC housing.  
Flat (Pin Hole) aperture wider beams experience significant beam clipping - refer to PDF report for exact FWHM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

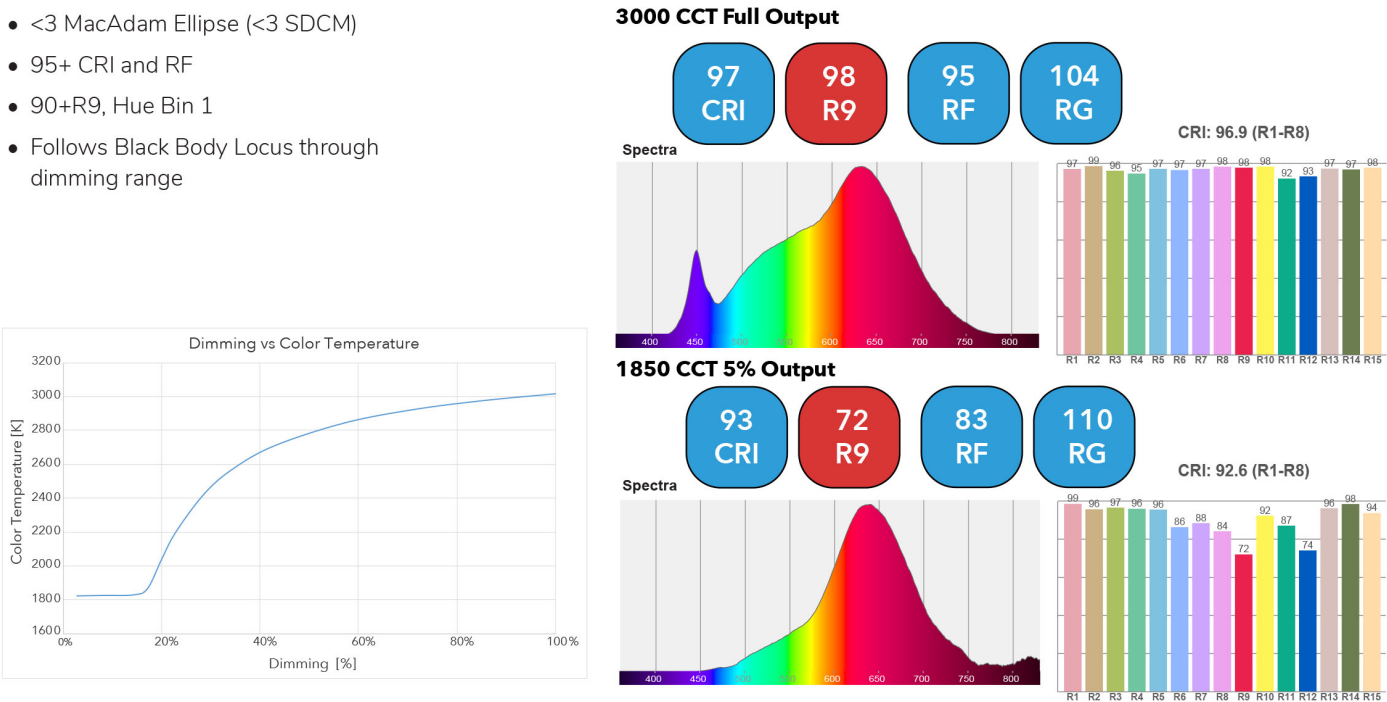
Citizen Source - C14

- <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