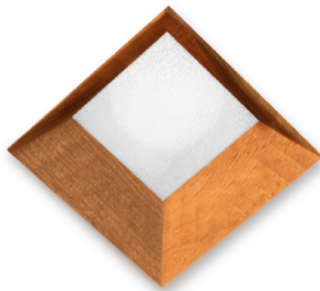
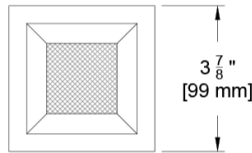
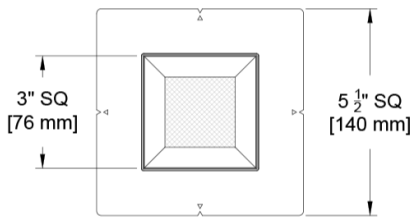
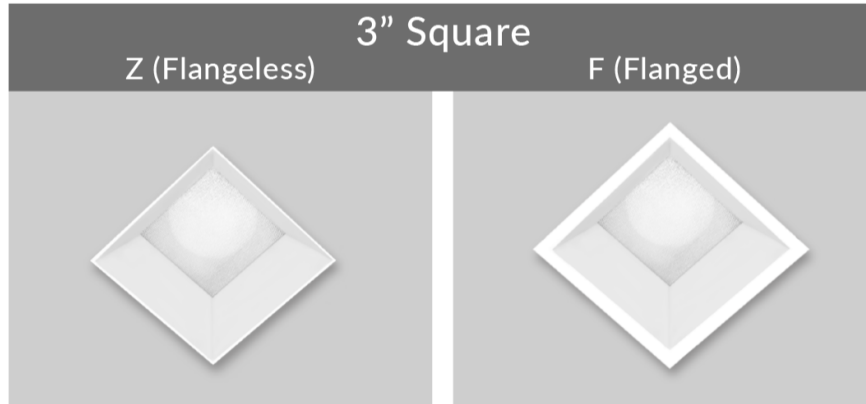


## The Core Family

The Core family line offers a rich diversity of technical and aesthetic options. Our 3" adjustable square offers 14+ finishes & custom wood choices. A wide range of source/optic selections, 3 ranges of Ambient Dim™ (Warm Dim), 5 beam spreads, and a multitude of driver/control options including TruPhase™ (phase dimming down to 0.1%). Our Core product family is created on platform allowing for a high degree of modification.



Wood Finish Available

PROJECT:

TYPE:

SPECIFIER:

DATE:

### Key Points (CR3D-SA)

#### 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
- **AmbientDim™**, RGBW, Tunable White options
- 90 CRI, 55+ R9 Standard- 95 CRI 90+R9 Optional
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 1700 delivered lumens  
(Based on 3000K CCT @ 90+ CRI)
- Adjustable to 45° with 360° of rotation
- 5 beamspreads available - 10°, 15°, 24°, 36°, and 50°

• [View Photometry](#)

#### Housing

- Heavy gauge steel for new construction or remodel
- **24** Compliant to **JAB** 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

#### Driver

- **TruPhase™** - Dimming down to 0.1% - 120V only
- 0-10, DALI-2, DMX, Lutron or Casambi
- Flicker free to IEEE 1798-2015
- Prewired and integral to housing
- Universal 120-277V

Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR3D-SA-DR-Z-AU-C20-35-24-E2-P16-91A-91L-97L-CP-LR

| FIXTURE                             | APERTURE           | TRIM                                                                                                                                                                                            | MOUNTING                                                                                                                                                                                                                                                                                  | SOURCE / WATTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CCT                                                                                                                                                                                                                                                                                                                                                                                                                        | BEAM                                                                                                                                    | DRIVER / CONTROL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TRIM FINISH                                                                                                                                                                                                                                                                                     | LENS ACCESSORIES                                                                                                                                                                                                                                                                                                                                                                                               | ACCESSORIES                                                                                                                                                                                                               |
|-------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CR3D-SA                             |                    |                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                           |
| Core 3" Square Adjustable Downlight | DR<br>Deep Regress | Flangeless Trims<br><br>Z<br>Flangeless Trim<br><br>ZS<br>Flangeless Shower Trim<br><br>Flanged Trims<br><br>F<br>Flanged Trim<br><br>FS<br>Flanged Shower Trim<br><br>* Aperture Lens Required | ASPM *<br>Airtight Shallow Panel<br>IC-Rated<br><br>ASP *<br>Airtight Shallow Plaster<br><br>ASU *<br>Airtight Shallow Universal<br>IC-Rated<br><br> Supports CA Title 24 compliance to JA8 requirements | C6 *<br>6W<br>364Lm<br>90+CRI, 60+R9<br><br>C8 *<br>8W<br>497Lm<br>90+CRI, 60+R9<br><br>C10 *<br>10W<br>580Lm<br>90+CRI, 60+R9<br><br>C14<br>15W<br>1296Lm**<br>90+CRI, 60+R9<br><br>C20<br>21W<br>1700Lm<br>90+CRI, 60+R9<br><br>Ambient Dim™<br><br>A14<br>15W<br>656Lm<br>95+CRI, 90+R9<br><br>Tunable<br><br>T9<br>10W<br>90+CRI, 60+R9<br>Tunable White<br><br>T15<br>15W<br>90+CRI, 60+R9<br>Tunable White<br><br>RGBW<br>90+CRI, 60+R9<br><br> Supports CA Title 24 compliance to JA8 requirements.<br><br>* Only with 10° optic<br><br><a href="#">View Photometry</a> | 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 w/ E1, E2, E3, E4<br><br>TW2765<br>2700-6500K<br>Tunable White w/ E1, E2, E3, E4<br><br>RG1280<br>1200-8000K<br>RGBW<br>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 | 10 *<br>Narrow Spot<br>* Only with C6, C8, & C10<br><br>15<br>Spot<br><br>24<br>Narrow Flood<br><br>36<br>Flood<br><br>50<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<br><br>^ INCLUDES DMX/RDM COMPATIBLE DRIVER WITH BUILT-IN DECODER - CONTROLLER BY OTHERS (REMOTE ONLY)<br><br>TR2<br>TruPhase™<br>0.1%, (120-120V) log Up to 20W<br>Forward and Reverse compatible Phase Dimming<br>Static White & Ambient Dim only | W<br>White Paint<br><br>B<br>Black Paint<br><br>D<br>Wood*<br><br>PXX<br>Specialty Paint Color*<br><br>P01-P15<br><br>C<br>Custom/RAL Color**<br><br>*Wood "D" Selection to be used with Z trim and PM mounting<br>**See Specialty Finish Guide<br><br>FINISH GUIDE LINK<br><br>WOOD TRIM GUIDE | 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<br><br>LENS ACCESSORY VISUAL GUIDE LINK | EM<br>Emergency Pack*<br>*Remote Required<br><br>CP<br>Chicago Plenum<br><br>Controls<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 |

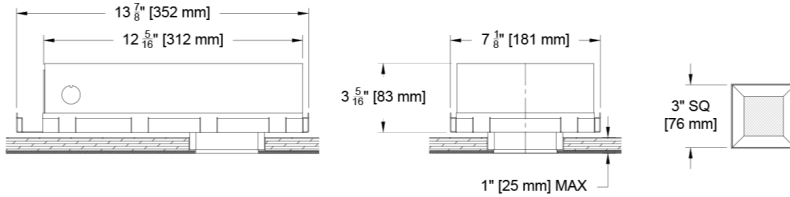
## Ceiling Cutouts and Dimensions

Deep Regress Shown - other apertures similar

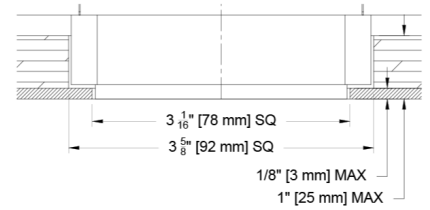
### Square Flangeless Housing

### Panel Mount (Z/ASPM)

CR3D-SA-Z-ASPM-



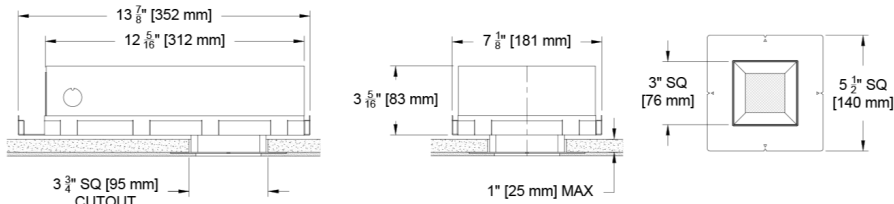
### Panel Mount Detail



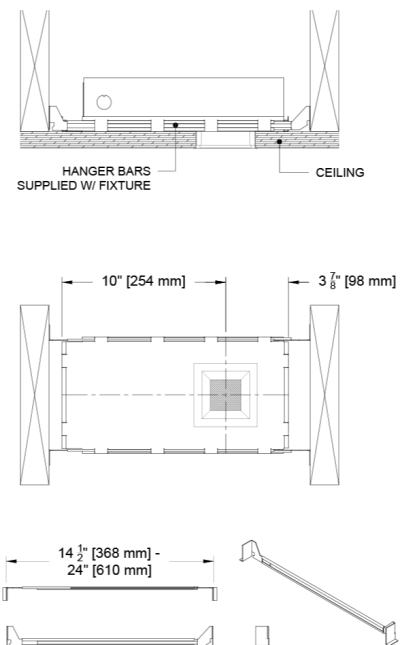
### Square Flangeless Housing

### Plaster Mount (Z/ASP)

CR3D-SA-Z-ASP-



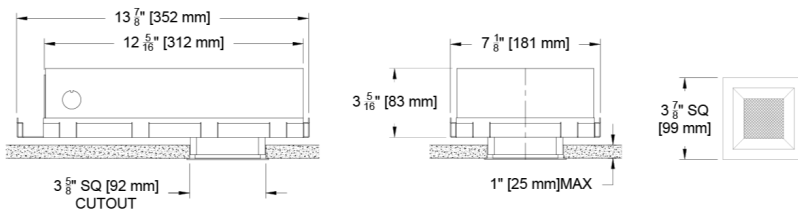
### Hanger Bar Detail



### Square Flanged Housing

### Universal Mount (F/ASU)

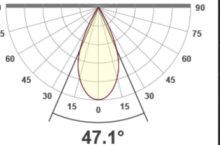
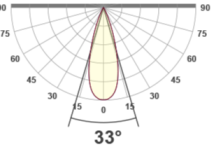
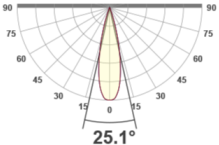
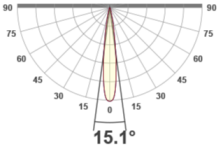
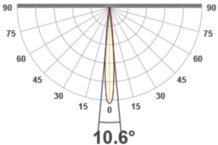
CR3D-SA-F-ASU-



## 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

|                        |      | 10°              |                |           |         | 15°       |                |           |         | 24°       |                |           |         | 36°       |                |           |         | 50°       |                |           |         |           |  |  |  |  |
|------------------------|------|------------------|----------------|-----------|---------|-----------|----------------|-----------|---------|-----------|----------------|-----------|---------|-----------|----------------|-----------|---------|-----------|----------------|-----------|---------|-----------|--|--|--|--|
|                        |      | System watts (W) | Del. Lms       | Lms/ Watt | Peak CD | 10% Field | Del. Lms       | Lms/ Watt | Peak CD | 10% Field | Del. Lms       | Lms/ Watt | Peak CD | 10% Field | Del. Lms       | Lms/ Watt | Peak CD | 10% Field | Del. Lms       | Lms/ Watt | Peak CD | 10% Field |  |  |  |  |
| Citizen C6             |      | 6                | 364            | 63        | 8588    | 18°       | Not Compatible |           |         |           | Not Compatible |           |         |           | Not Compatible |           |         |           | Not Compatible |           |         |           |  |  |  |  |
| Citizen C8             |      | 8                | 497            | 60        | 11726   | 18°       |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| Citizen C10            |      | 10               | 580            | 54        | 13684   | 18°       |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| Citizen C14            |      | 15               | Not Compatible |           |         |           | 1195           | 77        | 13007   | 28°       | 1302           | 84        | 6897    | 40°       | 1272           | 82        | 3971    | 52°       | 1265           | 82        | 2299    | 66°       |  |  |  |  |
| Citizen C20            |      | 20               |                |           |         |           | 1584           | 73        | 17908   | 28°       | 1723           | 79        | 9277    | 40°       | 1683           | 77        | 5299    | 52°       | 1683           | 77        | 3064    | 66°       |  |  |  |  |
| Ambient Dim A14 - 3019 |      | 15               |                |           |         |           | IN PROCESS     |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| Ambient Dim A14 - 2722 |      | 15               |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| Ambient Dim A14 - 3022 |      | 15               |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| Tunable White - T9     |      | 12               |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| Tunable White - T15    |      | 12               |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| RGBW                   |      | ??               |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
|                        |      |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
|                        |      |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| Citizen                |      |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| 2700                   | 0.95 |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| 3000                   | 1.00 |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| 3500                   | 1.02 |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
| 4000                   | 1.03 |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |
|                        |      |                  |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |                |           |         |           |  |  |  |  |



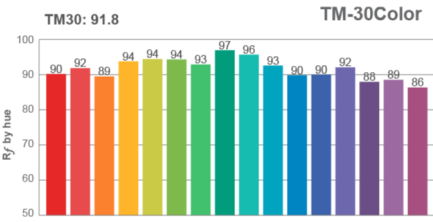
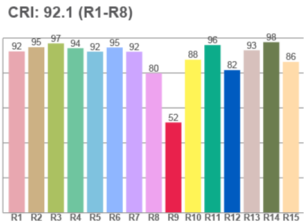
All Measurements delivered or derived delivered lumens based on 3000K.

Color Data

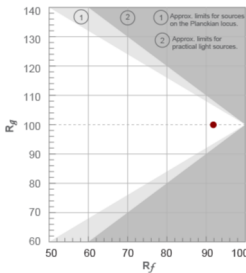
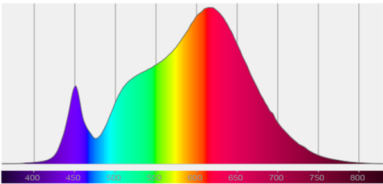
All data is based from goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

Citizen CoB

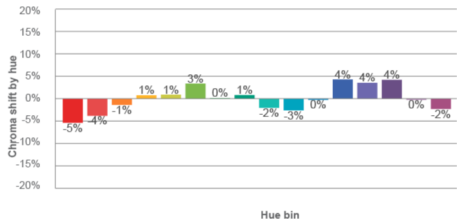
- <3 MacAdam Ellipse (<3 SDCM)



Spectra

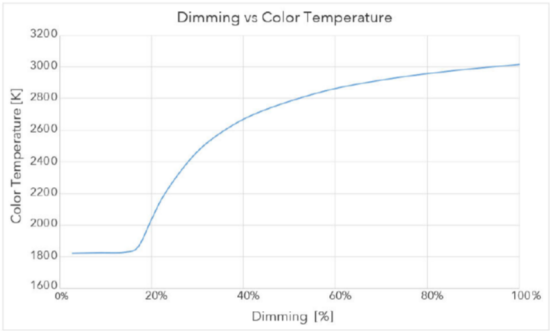


Color distortion



AmbientDim™ A14

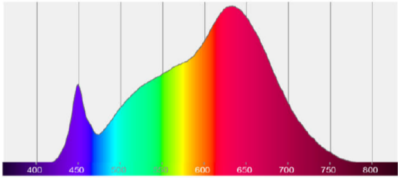
- <3 MacAdam Ellipse (<3 SDCM)



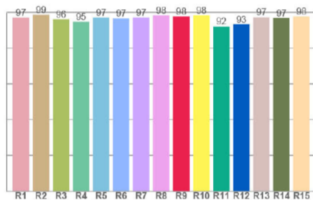
3000 CCT Full Output



Spectra



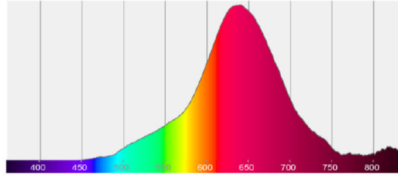
CRI: 96.9 (R1-R8)



1850 CCT 5% Output



Spectra



CRI: 92.6 (R1-R8)

