

# The Core Family

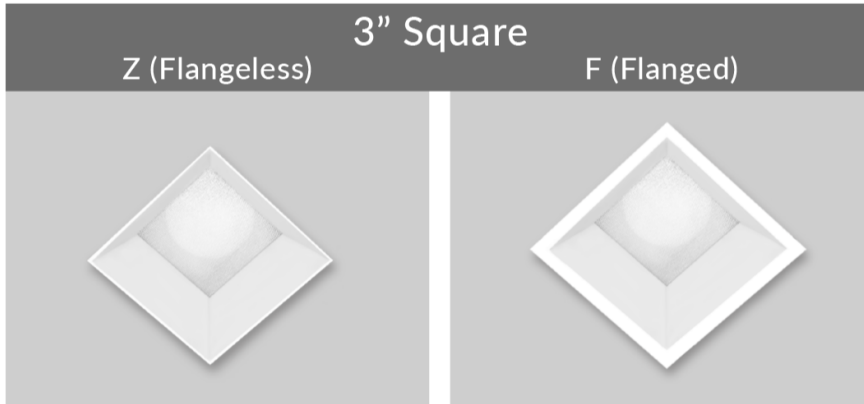
The Core family line offers a rich diversity of technical and aesthetic options. Our 3" adjustable square offers 14+ finishes & custom wood choices. A wide range of source/optic selections, 3 ranges of Ambient Dim™ (Warm Dim), 5 beam spreads, and a multitude of driver/control options including TruPhase™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

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  
Ambient Dim, 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°

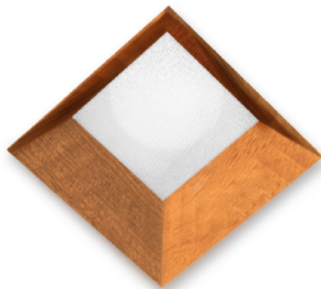
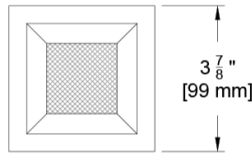
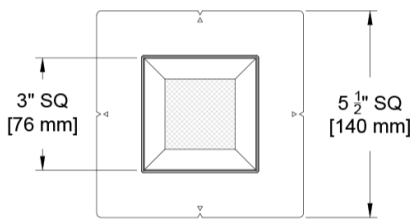
### [View Photometry](#)

### Housing

- Heavy gauge steel for new construction or remodel
- 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

### 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



Wood Finish Available

# 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 Deep Regress	Flangeless Trims Z Flangeless Trim ZS Flangeless Shower Trim Flanged Trims F Flanged Trim FS Flanged Shower Trim * Aperture Lens Required	ASPM * ●● Airtight Shallow Panel IC-Rated ASP * ●● Airtight Shallow Plaster ASU * ●● Airtight Shallow Universal IC-Rated ●● Supports CA Title 24 compliance to JA8 requirements	C6 * ●● 6W 364Lm 90+CRI, 60+R9 C8 * ●● 8W 497Lm 90+CRI, 60+R9 C10 * ●● 10W 580Lm 90+CRI, 60+R9 C14 ●● 15W 1296Lm** 90+CRI, 60+R9 C20 ●● 21W 1700Lm 90+CRI, 60+R9 Ambient Dim™ A14 ●● 15W 656Lm 95+CRI, 90+R9 Tunable T9 10W 90+CRI, 60+R9 Tunable White T15 15W 90+CRI, 60+R9 Tunable White RGBW 90+CRI, 60+R9 ●● Supports CA Title 24 compliance to JA8 requirements. * Only with 10° optic <a href="#">View Photometry</a>	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	10 * Narrow Spot * Only with C6, C8, & C10 15 Spot 24 Narrow Flood 36 Flood 50 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 (REMOTE ONLY) TR2 TruPhase™ 0.1%, (120-120V) log Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only	W White Paint B Black Paint D Wood* PXX Specialty Paint Color* P01-P15 C Custom/RAL Color** *Wood "D" Selection to be used with Z trim and PM mounting **See Specialty Finish 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 	EM Emergency Pack CP Chicago Plenum Controls ATH Lutron Athena Wireless Node Must be used with E2 driver CA Casambi Wireless BLE to be paired with driver

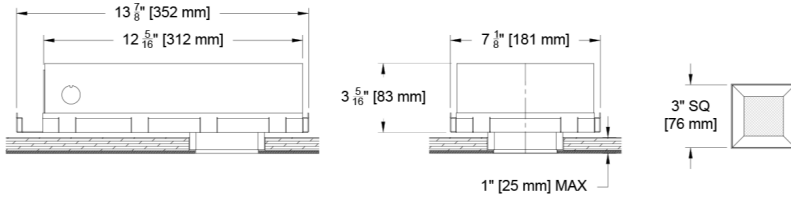
# Ceiling Cutouts and Dimensions

Deep Regress Shown - other apertures similar

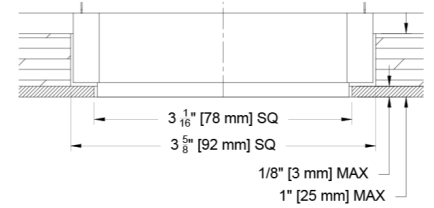
## Square Flangeless Housing

## Panel Mount (Z/ASPM)

CR3D-SA-Z-ASPM-



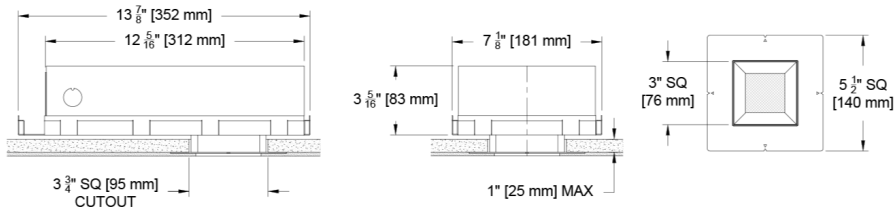
## Panel Mount Detail



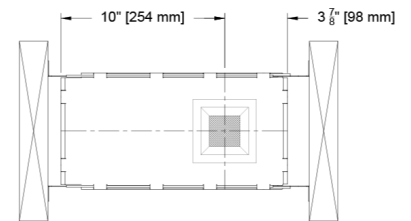
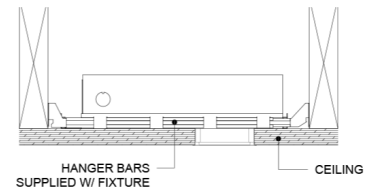
## Square Flangeless Housing

## Plaster Mount (Z/ASP)

CR3D-SA-Z-ASP-



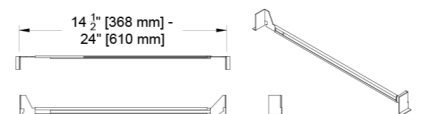
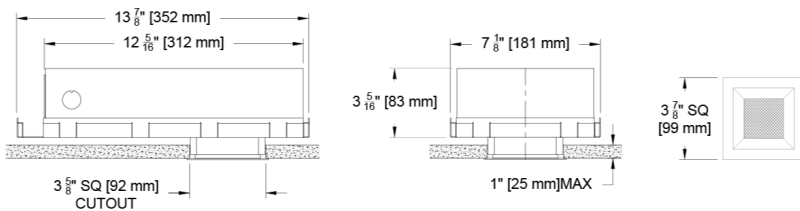
## Hanger Bar Detail



## 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

	System watts (W)	10°				15°				24°				36°				50°							
		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						<p>10.6°</p>				<p>15.1°</p>				<p>25.1°</p>				<p>33°</p>				<p>47.1°</p>			
2700	0.95																								
3000	1.00																								
3500	1.02																								
4000	1.03																								

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

# Color Data

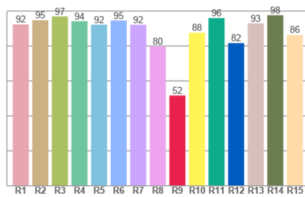
All data is based from goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

## Citizen CoB

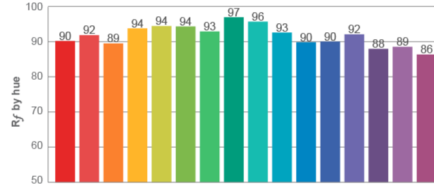
- <3 MacAdam Ellipse (<3 SDCM)

92 CRI	52 R9
92 RF	100 RG

CRI: 92.1 (R1-R8)

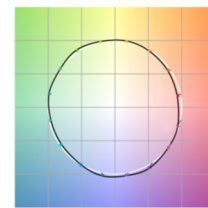


TM30: 91.8

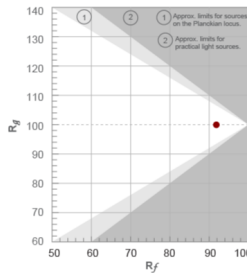
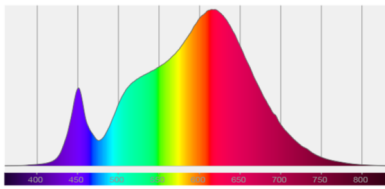


TM-30Color

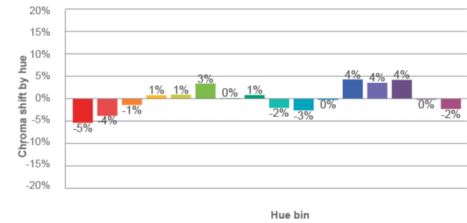
Color vector graphics



Spectra



Color distortion



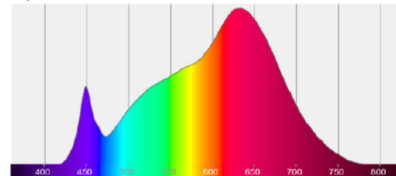
## AmbientDim™ A14

- <3 MacAdam Ellipse (<3 SDCM)

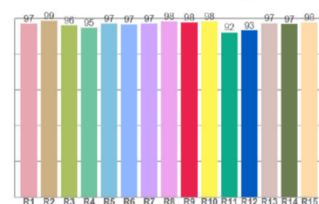
### 3000 CCT Full Output

97 CRI	98 R9	95 RF	104 RG
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Spectra



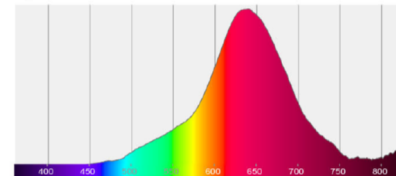
CRI: 96.9 (R1-R8)



### 1850 CCT 5% Output

93 CRI	72 R9	83 RF	110 RG
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Spectra



CRI: 92.6 (R1-R8)

