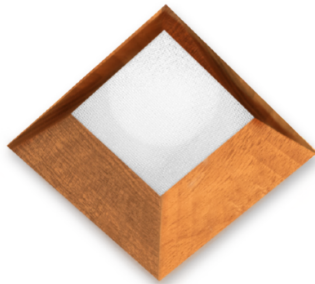
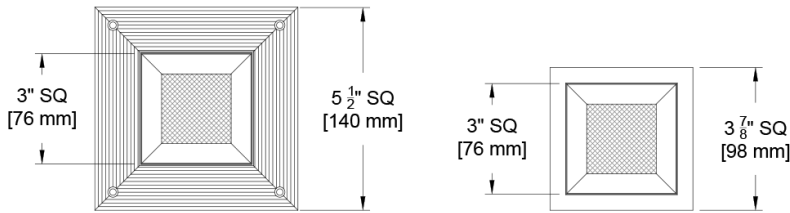
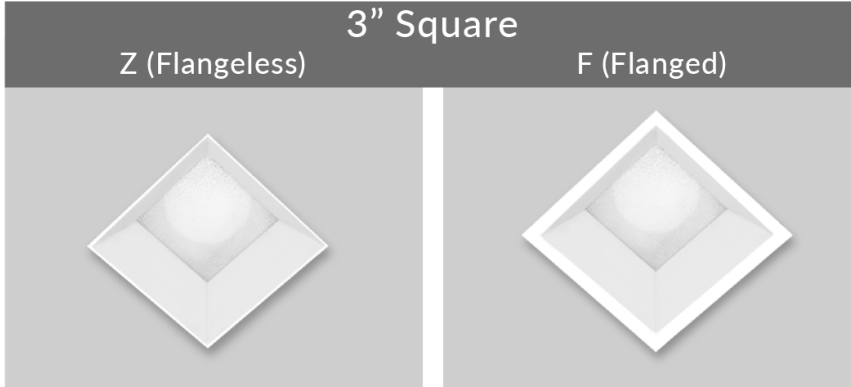


## The Core Family

The Core family line offers a rich diversity of technical and aesthetic options. Our 3" fixed 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-SF)




#### 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 1862 delivered lumens (Based on 3000k CCT @ 90+ CRI)
- 5 beamspreads available- 10°, 15°, 24°, 36°, & 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™ - Dim to 0.1% - 120V only
- 0-10, DALI-2, DMX, Lutron or Casambi
- Flicker free to IEEE 1789-2015
- Prewired and integral to housing
- Universal 120-277v

# Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

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

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR3D-SF	DR	Flangeless Trims	Shallow Housing	C6 * ●● 6W 364Lm 90+CRI, 60+R9	24 2400K	10 Narrow Spot *Only with C6, C8, & C10	C1 0-10 1.0%, UNV (120-277V) linear	W White Paint	Aperture Lens	CP Chicago Plenum
Core 3" Square Fixed Downlight	Deep Regress	Z Flangeless Trim	ASPM ●● Airtight Shallow Panel IC-Rated	C8 * ●● 8W 497Lm 90+CRI, 60+R9	27 2700K	15 Spot	C2 ELV/Triac 1.0%, (120V) linear	B Black Paint	91A Solite	EM Emergency Pack
		ZS Flangeless Shower Trim	ASP ●● Airtight Shallow Plaster IC-Rated	C10 * ●● 10W 580Lm 90+CRI, 60+R9	30 3000K	24 Narrow Flood	E1 0-10 0.1%, UNV (120-277V) log	D Wood*	93A Frosted	Controls
		Flanged Trims	ASU ●● Airtight Shallow Universal IC-Rated	C14 ●● 15W 1397Lm 90+CRI, 60+R9	35 3500K	36 Flood	E2 DALI-2 0.1%, UNV (120-277V) log	PXX Specialty Paint Color*	XXA Other Aperture Lens Treatments*	ATH Lutron Athena Wireless Node Must be used with E2 driver
		FS Flanged Shower Trim	●● Supports California Title 24 compliance to JA8 Requirements	C20 ●● 21W 1862Lm 90+CRI, 60+R9	40 4000K	55 Wide Flood	E3 0-10 0.1%, UNV (120-277V) linear	P01-P15	Reflector (lamp) Media	CA Casambi Wireless BLE to be paired with driver
		F Flanged Trim		T9 10W 90+CRI, 60+R9 Tunable White	Tunable TW1840 1800-4000K Tunable White w/ E1, E2, E3, E4		E4^ DMX 0.1%, UNV (120-277V) Universal DMX Driver/Controller RGBW-DMX	C Custom/RAL Color**	91L Solite	
		* Aperture Lens Required		T15 15W 90+CRI, 60+R9 Tunable White	TW2765 2700-6500K Tunable White w/ E1, E2, E3, E4		^ INCLUDES DMX/RDM COMPATIBLE DRIVER WITH BUILT-IN DECODER - CONTROLLER BY OTHERS (REMOTE ONLY)	*Wood "D" Selection to be used with Z trim and PM mounting **See Specialty Finish Guide	93L Frosted	
				RGBW 90+CRI, 60+R9	RG1280 1200-8000K RGBW Dynamic Color Changing *Requires E2 or E4		TR2 TruPhase™ 0.1%, (120-120V) log Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only	FINISH GUIDE LINK WOOD TRIM GUIDE	97L Black Hexcel Louver	
				Ambient Dim™ A14 ●● 15W 656Lm 95+CRI, 90+R9	Ambient Dim™ 2722 2700-2200K				XXL Other reflector (lamp) media*	
				●● California Title 24 Compliant to JA8	3019 3000-1900K				1 piece of Media per opening (aperture or reflector) can be selected *Refer to Lens Accessory Guide	
				* Only with 10° optic	3022 3000-2200K				LENS ACCESSORY VISUAL GUIDE LINK	
				<a href="#">View Photometry</a>						

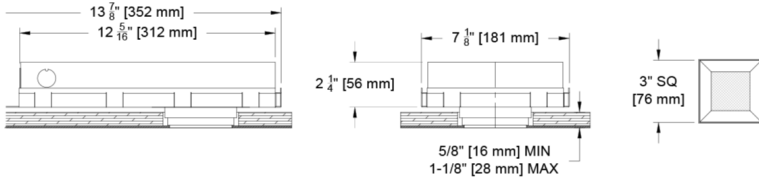
# Ceiling Cutouts and Dimensions

Deep Regress shown - other apertures are similar

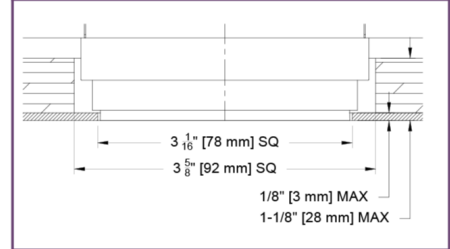
## Square Flangeless Housing

### Panel Mount (Z/ASPM)

CR3D-SF-Z-ASPM-



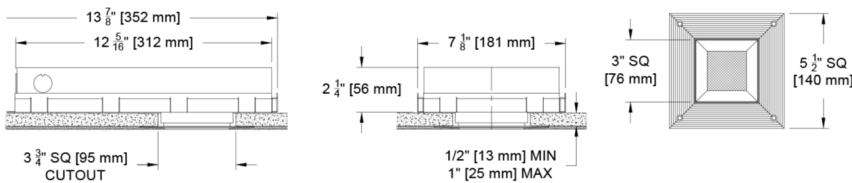
### Panel Mount Detail



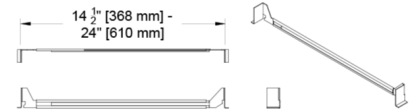
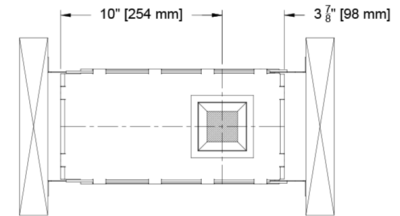
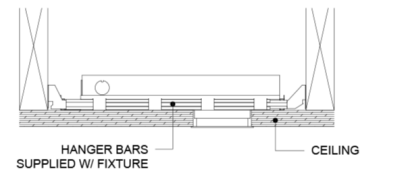
## Square Flangeless Housing

### Plaster Mount (Z/ASP)

CR3D-SF-Z-ASP-



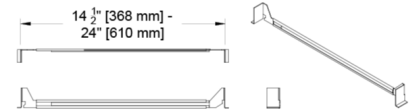
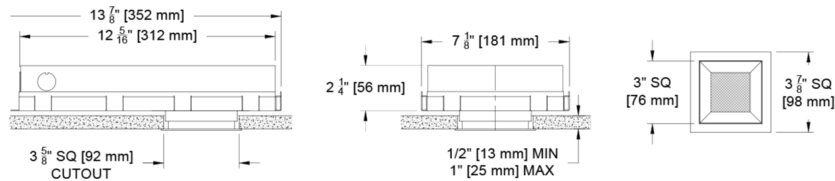
### Hanger Bar Detail



## Square Flanged Housing

### Universal Mount (F/ASU)

CR3D-SF-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.

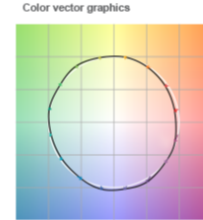
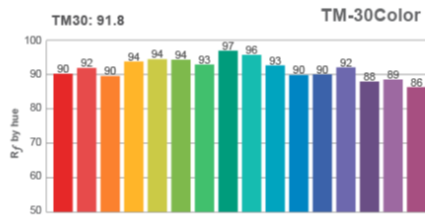
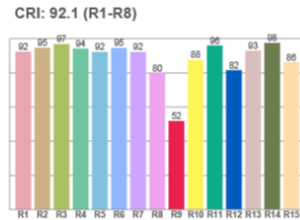
	System watts (W)	10°				15°				24°				36°				50°															
		Del. Lms	Lms/Watt	Peak CD	10% Field	Del. Lms	Lms/Watt	Peak CD	10% Field	Del. Lms	Lms/Watt	Peak CD	10% Field	Del. Lms	Lms/Watt	Peak CD	10% Field	Del. Lms	Lms/Watt	Peak CD	10% Field												
Citizen C6	6	364	63	8326	18°	Not Compatible				Not Compatible				Not Compatible				Not Compatible															
Citizen C8	8	497	60	11368	18°																												
Citizen C10	10	580	54	13266	18°																												
Citizen C14	15	Not Compatible				1297	82	13620	28°	1398	89	7083	41°	1362	87	4162	52°	1368	87	2305	68°												
Citizen C20	20					1723	79	18688	28°	1862	85	9535	41°	1802	83	5492	52°	1822	84	3080	68°												
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				10.8°				15.1°				25.1°				33.1°				48.6°							
						2700				0.95				3000				1.00				3500				1.02				4000			

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

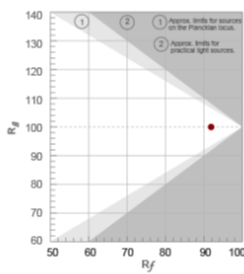
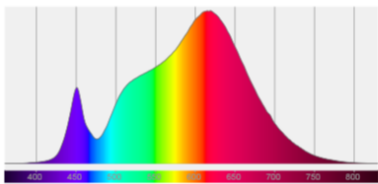
## Citizen CoB C6, C8, C10, C14, C20

- <3 MacAdam Ellipse (<3 SDCM)

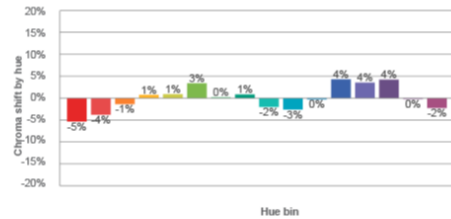
92 CRI	52 R9
92 RF	100 RG



Spectra



Color distortion



## AmbientDim™ A14

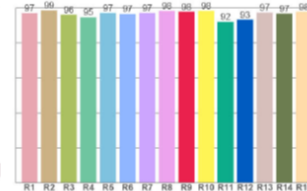
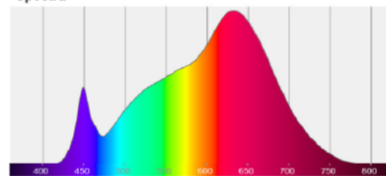
- <3 MacAdam Ellipse (<3 SDCM)

### 3000 CCT Full Output

97 CRI	98 R9	95 RF	104 RG
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CRI: 96.9 (R1-R8)

Spectra



### 1850 CCT 5% Output

93 CRI	72 R9	83 RF	110 RG
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CRI: 92.6 (R1-R8)

Spectra

