

The Core Family

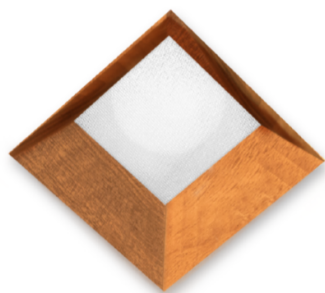
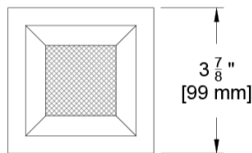
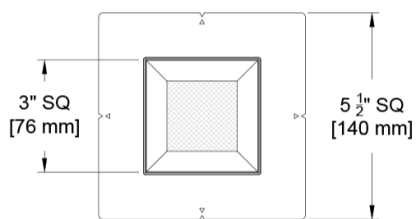
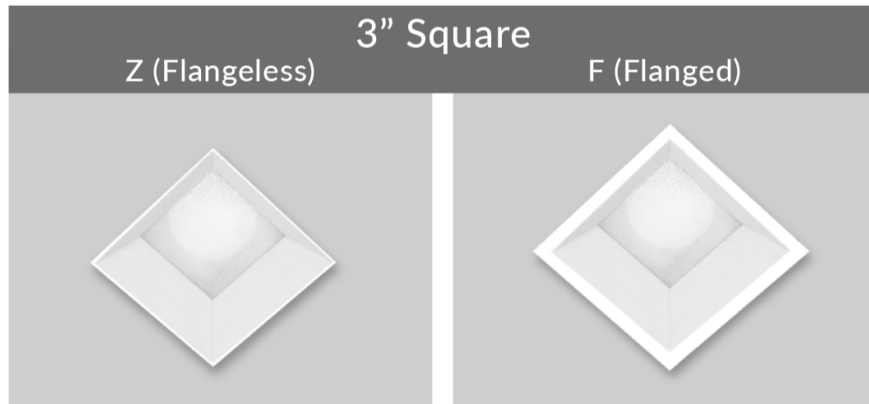
The Core family line offers a rich diversity of technical and aesthetic options. Our 3" adjustable square offers 14+ finishes & custom wood choices. A wide range of source/optic selections, 3 ranges of Ambient Dim™ (Warm Dim), 5 beam spreads, and a multitude of driver/control options including TruPhase™ (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:



Wood Finish Available

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

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	DR	Flangeless Trims	ASPM * ●●	C6 * ●●	24	10 *	C1	W	Aperture Lens	EM
Core 3" Square Adjustable Downlight	Deep Regress	Z Flangeless Trim	Airtight Shallow Panel <i>IC-Rated</i>	6W 364Lm 90+CRI, 60+R9	2400K	Narrow Spot * Only with C6, C8, & C10	0-10 1.0%, UNV (120-277V) linear	White Paint	91A Solite	Emergency Pack
		ZS Flangeless Shower Trim	ASP * ●●	C8 * ●●	27	15 Spot	C2 ELV/Triac 1.0%, (120V) linear	B Black Paint	93A Frosted	CP Chicago Plenum
		F Flanged Trims	Airtight Shallow Plaster	8W 497Lm 90+CRI, 60+R9	3000K	24 Narrow Flood	E1 0-10 0.1%, UNV (120-277V) log	D Wood*	XXA Other Aperture Lens Treatments*	Controls
		FS Flanged Shower Trim	ASU * ●●	C10 * ●●	35	36 Flood	E2 DALI-2 0.1%, UNV (120-277V) log	PXX Specialty Paint Color*	Reflector (lamp) Media	ATH Lutron Athena Wireless Node <i>Must be used with E2 driver</i>
		* Aperture Lens Required	Airtight Shallow Universal <i>IC-Rated</i>	10W 580Lm 90+CRI, 60+R9	40 4000K	50 Wide Flood	E3 0-10 0.1%, UNV (120-277V) linear	P01-P15	91L Solite	CA Casambi Wireless BLE to be paired with driver
			●● Supports CA Title 24 compliance to JA8 requirements	C14 ●●	Tunable		E4^ DMX 0.1%, UNV (120-277V) Universal DMX Driver/Controller <i>RGBW-DMX</i>	C Custom/RAL Color**	93L Frosted	
				15W 1296Lm** 90+CRI, 60+R9	TW1840 1800-4000K 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	97L Black Hexcel Louver	
				C20 ●●	TW2765 2700-6500K Tunable White w/ E1, E2, E3, 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	XXL Other reflector (lamp) media*	
				15W 656Lm 95+CRI, 90+R9	RG1280 1200-8000K RGBW Dynamic Color Changing *Requires E2 or E4			WOOD TRIM GUIDE	1 piece of Media per opening (aperture or reflector) can be selected *See Lens Accessory Guide	
				Tunable						
				T9						
				10W 90+CRI, 60+R9 Tunable White	2722 2700-2200K					
				T15						
				15W 90+CRI, 60+R9 Tunable White	3019 3000-1900K					
				RGBW 90+CRI, 60+R9	3022 3000-2200K					
				●● Supports CA Title 24 compliance to JA8 requirements.						
				* Only with 10° optic						
				View Photometry						

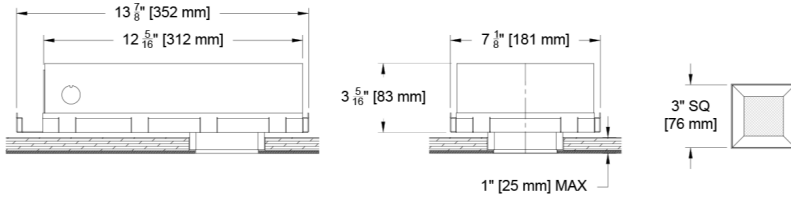
Ceiling Cutouts and Dimensions

Deep Regress Shown - other apertures similar

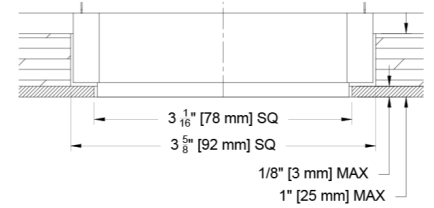
Square Flangeless Housing

Panel Mount (Z/ASPM)

CR3D-SA-Z-ASPM-



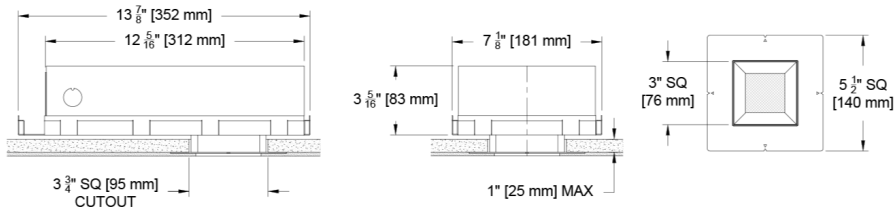
Panel Mount Detail



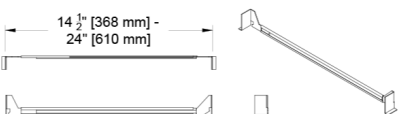
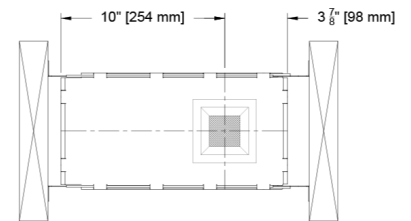
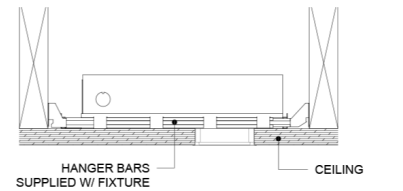
Square Flangeless Housing

Plaster Mount (Z/ASP)

CR3D-SA-Z-ASP-



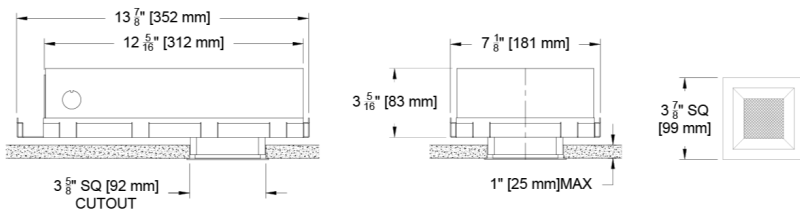
Hanger Bar Detail



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

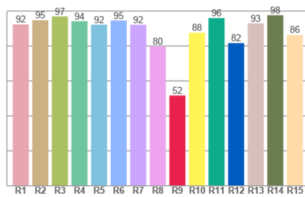
All data is based from goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

Citizen CoB

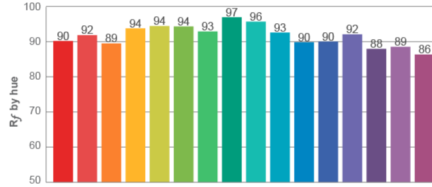
- <3 MacAdam Ellipse (<3 SDCM)

92 CRI	52 R9
92 RF	100 RG

CRI: 92.1 (R1-R8)

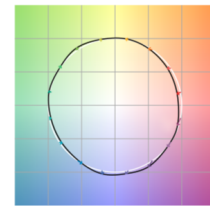


TM30: 91.8

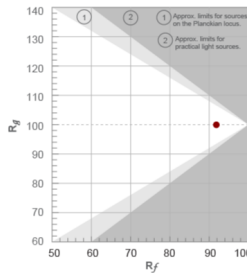
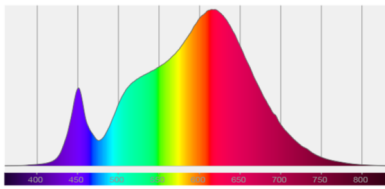


TM-30Color

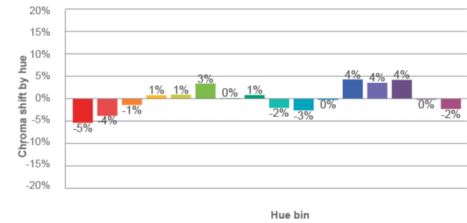
Color vector graphics



Spectra



Color distortion



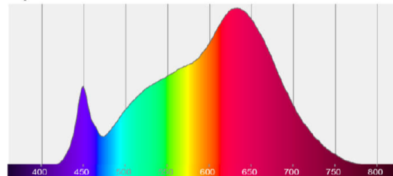
AmbientDim™ A14

- <3 MacAdam Ellipse (<3 SDCM)

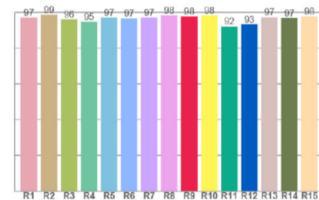
3000 CCT Full Output

97 CRI	98 R9	95 RF	104 RG
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Spectra



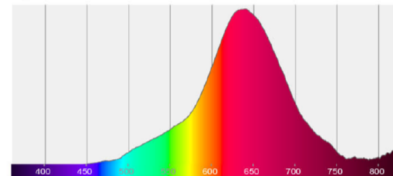
CRI: 96.9 (R1-R8)



1850 CCT 5% Output

93 CRI	72 R9	83 RF	110 RG
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Spectra



CRI: 92.6 (R1-R8)

