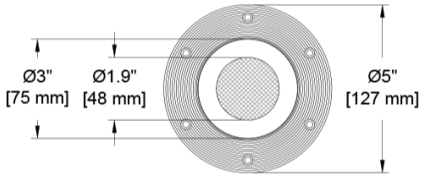
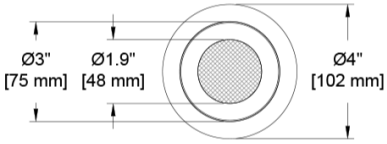
The Core Family

The Core family line offers a rich diversity of technical and aesthetic options. Our 3" round adjustable 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-RA)

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
- 1780 delivered lumens
  (Based on 3000K CCT @ 90+ CRI)
- Adjustable to 45º with 360º of rotation
- 5 beamspreads available- 10º, 15º, 24º, 36º, and 50º

Housing

- TITLE 24 Compliant to JA8 with Airtight Housing
- c US 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 steel for new construction or remodel

Driver

- TruPhase™ - Dimming down 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

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Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR3D-RA-DR-Z-AU-C20-35-24-E2-P14-92A-91L-97L-CP

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR3D-RA										
Core 3" Round 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 *IC-Rated* ASU * ● ● Airtight Shallow Universal *IC-Rated* ● ● Supports CA Title24 compliance	C6 * ● ● 6W 364Lm 90+CRI, 60+R9 C8 * ● ● 8W 497Lm 90+CRI, 60+R9 C10 * ● ● 10W 580Lm 90+CRI, 60+R9 C14 ● ● 15W 1322Lm 90+CRI, 60+R9 C20 ● ● 21W 1700Lm 90+CRI, 60+R9 **Tunable** T9 10W 90+CRI, 60+R9 *Tunable White* T15 15W 90+CRI, 60+R9 *Tunable White* RGBW 90+CRI, 60+R9 **Ambient Dim™** A14 ● ● 15W 858Lm 95+CRI, 90+R9 ● ● Supports CA Title 24 Compliance to JA8 except in flat aperture * Only with 10° optic View Photometry	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* 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 - Refer to Wood Trim Guide ** Refer to Finish Guide FINISH GUIDE LINK WOOD TRIM 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 LENS ACCESSORY VISUAL GUIDE LINK	EM Emergency Pack* **Remote Required* CP Chicago Plenum BABA BABA Products CA Casambi Wireless BLE to be paired with driver **Controls** ATH Lutron Athena Wireless Node *Must be used with E2 driver*

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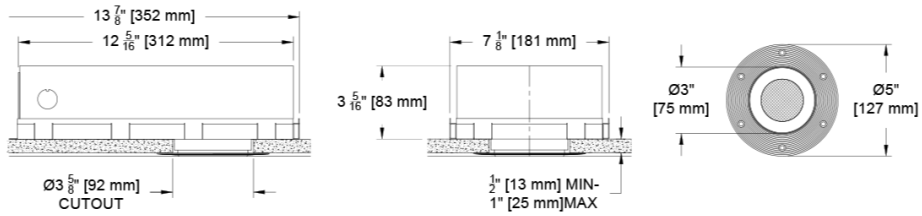
Ceiling Cutouts and Dimensions

For Deep Regress

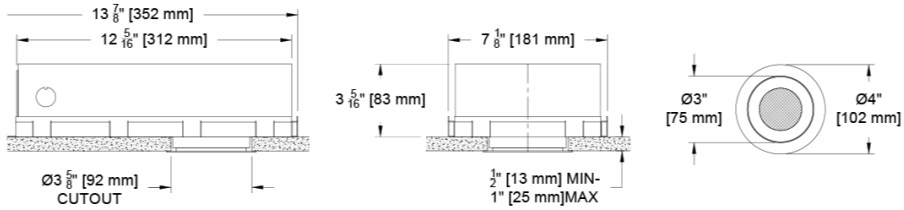
Round Flangeless Housing — Plaster Mount (Z/ASP)

CR3D-RA-Z-ASP-



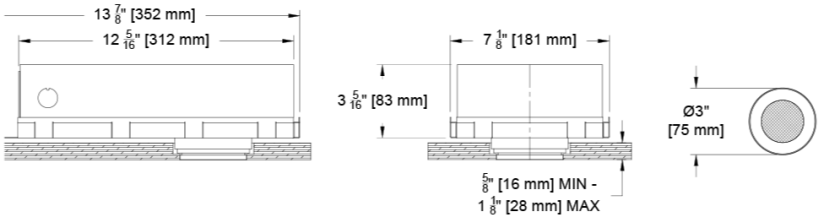
Round Flanged Housing — Universal Mount (F/ASU)

CR3D-RA-F-ASU-

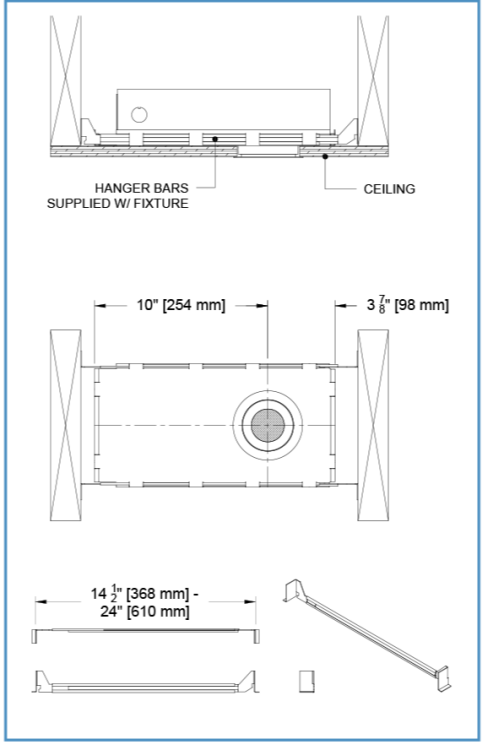


Round Flangeless Housing — Panel Mount (Z/ASPM)

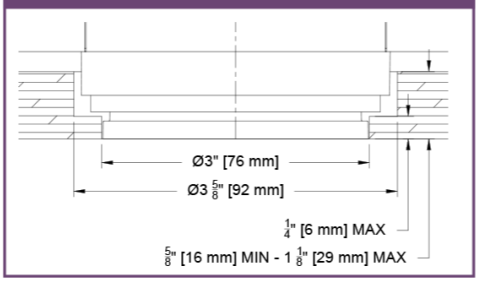
CR3D-RA-Z-ASPM-



Hanger Bar Detail



Panel Mount Detail



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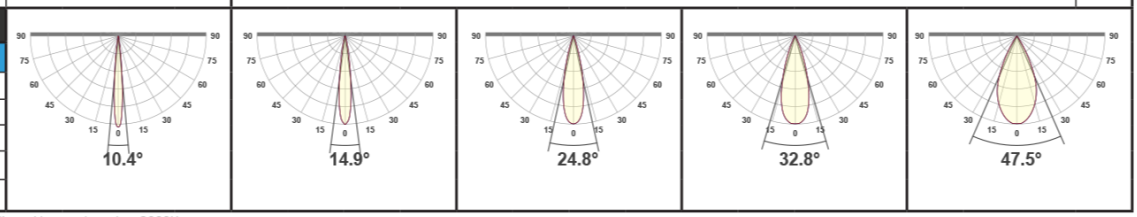
Photometric Table

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	8827	18°	Not Compatible				Not Compatible				Not Compatible				Not Compatible			
Citizen C8	8	497	60	12052	18°																
Citizen C10	10	580	54	14056	18°																
Citizen C14	15	Not Compatible				1233	80	13269	28°	1322	84	6897	40°	1272	84	3980	52°	1290	84	2274	66°
Citizen C20	20					1626	75	18018	28°	1758	81	9351	40°	1720	79	5385	52°	1730	79	3070	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.

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Color Data

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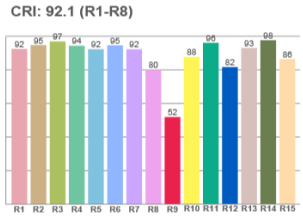
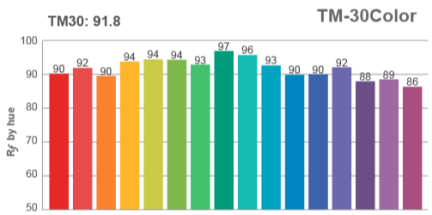
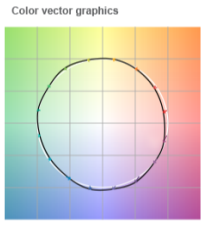
Citizen CoB C6, C8, C10, C14, C20

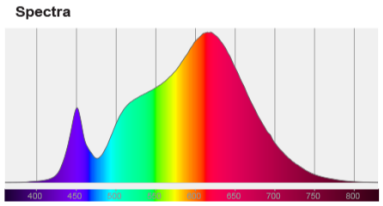
- <3 MacAdam Ellipse (<3 SDCM)

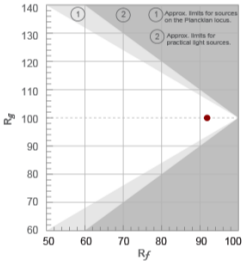
92 CRI	52 R9
92 RF	100 RG

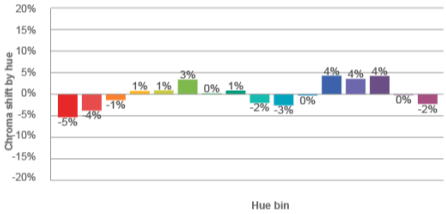






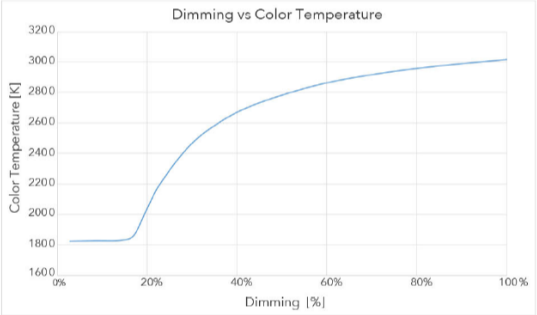






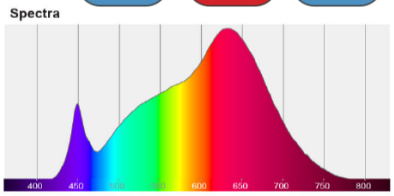
AmbientDim™ A14

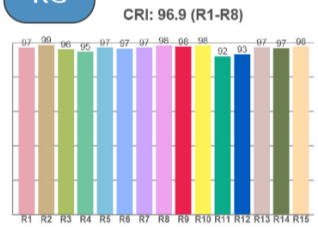
- <3 MacAdam Ellipse (<3 SDCM)



3000 CCT Full Output

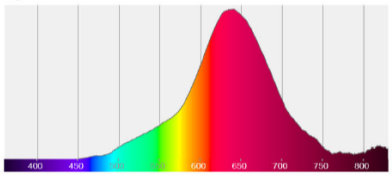
97 CRI	98 R9	95 RF	104 RG

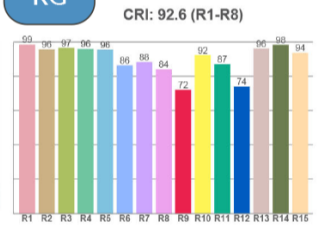




1850 CCT 5% Output

93 CRI	72 R9	83 RF	110 RG





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