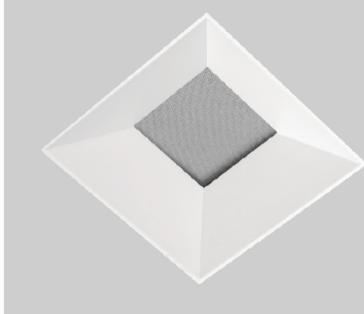


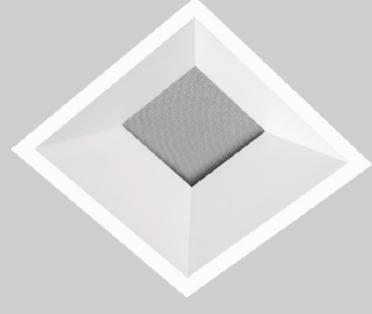
## The Core Family

Welcome to the Core line of fixtures. You will find a rich diversity of technical and aesthetic options including 3 trim apertures, over 14 finishes including custom wood trims, flux and source selections featuring 90+ CRI fixed white and our world class Ambient Dim (Warm Dim), multiple beam spreads and plethora of driver and control choices. The Core downlight is created on a platform allowing a high degree of modification, so if you don't see what you are looking for, just ask. We are here to make your project right.

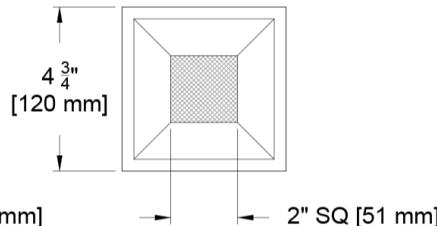
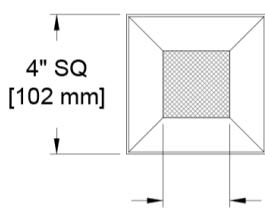
4" Square Z (Flangeless)



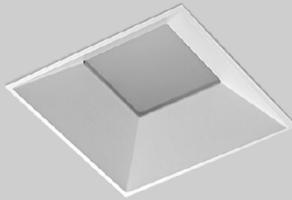
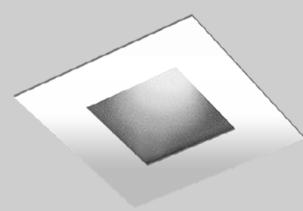
4" Square F (Flanged)



Deep Regress Shown



### Aperture Options

Deep Regress (DR)  
2" Optical ApertureFlat (pinhole) (FL)  
2" Optical ApertureOpen Regress (OR)  
3" Optical ApertureWood Finish Available  
with All apertures options

PROJECT:

TYPE:

SPECIFIER:

DATE:

### Key Points (CR4D-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

- Lifetime: L87B3>55,000 hours at 40°C Ambient
- 2400K, 2700K, 3000K, 3500K, 4000K Ambient Dim, RGBW, Tunable White options
- 90 CRI , 60+ R9 Standard- 95 CRI 90+R9 Optional with Ambient Dim

#### • <2 MacAdam Steps (<2SDCM) for fixed white

- Up to 2100 delivered lumens
- Adjustable to 45° with 360° of rotation
- 4 beamspreads available- 15°, 24°, 40°, and 55°

#### Housing

- **TITLE 24** Compliant to **JA8** with Airtight Housing



- **CSA<sup>us</sup>** 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 aluminum for new construction or remodel

#### Driver

- TruPhase™, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Flicker free to IEEE 1798-2015 available with EldoLED and TruPhase™ selections
- Prewired and integral to housing
- Universal 120-277V

# Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

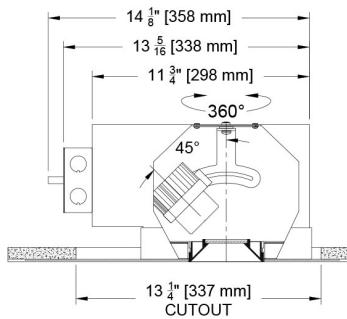
Ordering Code Example: CR4D-SA-DR-Z-AU-C20-35-24-E2-P16-91A-97L-CP-LR

Fixture	Aperture	Trim	Mounting	Source / Watts	CCT	Beam	Driver / Control	Trim Finish	Lens Accessories	Accessories
CR4D-SA										

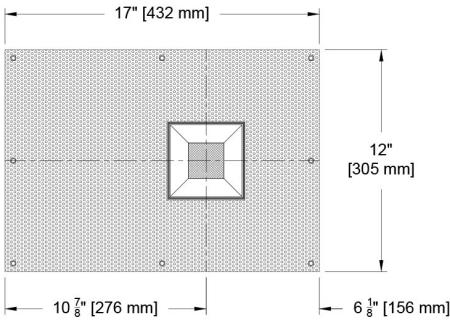
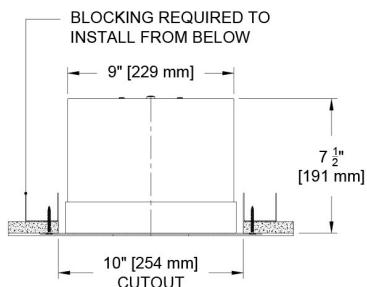
# Ceiling Cutouts and Dimensions

Deep Regress Shown - other apertures similar

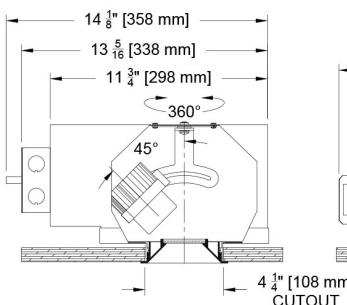
## Square Flangeless Housing



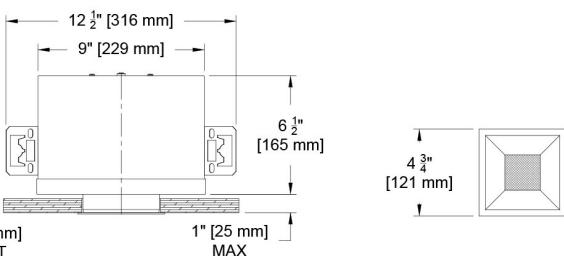
## Plaster Mount (P/AP) (CR4D-SA-DR-Z-P/AP)



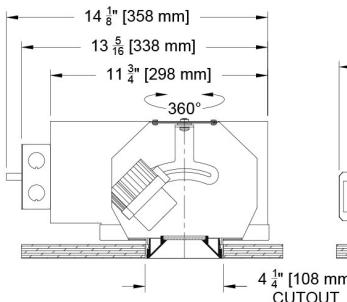
## Square Flanged Housing



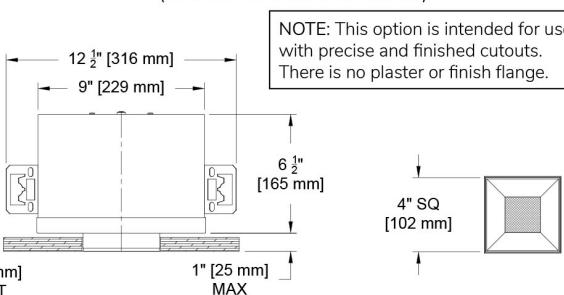
## Flanged Mount (U/AU) (CR4D-SA-DR-F-U/AU)



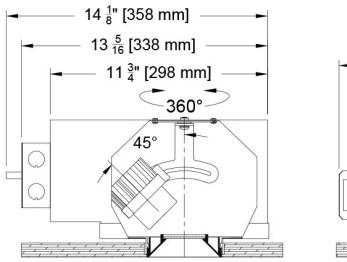
## Square Flangeless Housing



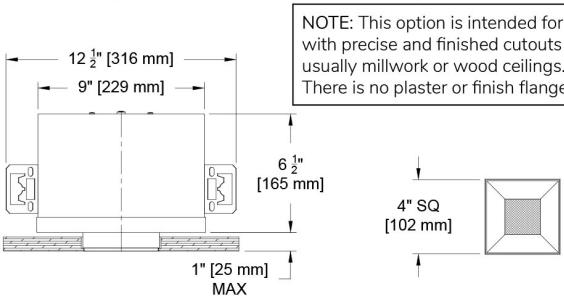
## Flangeless Mount (U/AU) (CR4D-SA-DR-Z-U/AU)



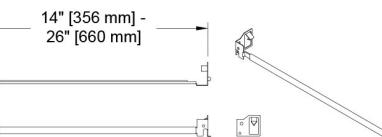
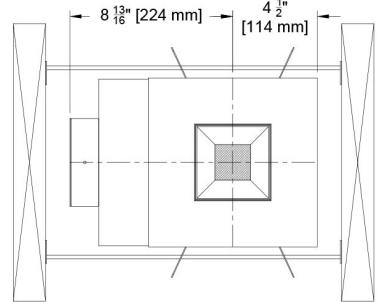
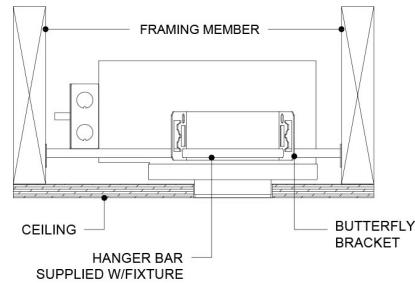
## Square Flangeless Housing



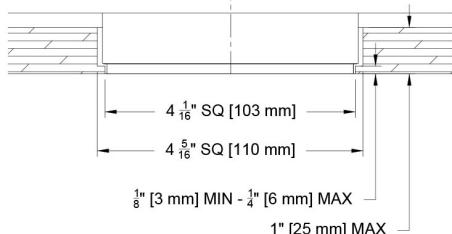
## Panel Mount (PM/APM) (CR4D-SA-DR-Z-PM/APM)



## Hanger Bar Detail



## Panel Mount Detail



# 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

SQUARE Beamspreads		15°					24°					40°					55°				
Source		System watts (W)	Delivered Lumens (lm)	Lumens/Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lms/Watt	Peak CD	10% Field			
Deep Regress	Citizen C14	15	1068	71	7642	42°	995	66	4174	46°	1037	69	3429	51°	996	66	1402	71°			
	Citizen C20	21	1424	68	10190	40°	1326	63	5562	39°	1382	66	4570	55°	1328	63	1870	73°			
	Citizen C28*	30	1848	62	13223	44°	1857	62	7791	47°	1916	64	6336	54°	1816	61	2556	69°			
	Ambient Dim A14	15	694	46	6220	43°	656	44	3189	44°	656	44	1827	53°	643	43	1028	70°			
Open Regress	Citizen C14	15	1173	78	7776	42°	1091	73	4167	52°	1112	74	2422	66°	1058	71	1357	74°			
	Citizen C20	21	1564	74	10369	41°	1455	69	5559	57°	1482	71	3199	63°	1411	67	1810	76°			
	Citizen C28*	30	2158	72	14306	44°	2008	67	7669	55°	2045	68	4455	67°	1947	65	2496	72°			
	Ambient Dim A14	15	810	54	5857	39°	779	52	3270	56°	779	52	1829	60°	764	51	1058	72°			
Flat (Pin Hole)	Citizen C14	15	829	55	7740	37°	737	49	1436	46°	719	48	2379	51°	661	44	1357	64°			
	Citizen C20	21	1105	53	10321	35°	982	47	5513	42°	958	46	3169	49°	881	42	1808	62°			
	Citizen C28*	30	1525	51	14258	32°	1355	45	7604	44°	1322	44	4375	53°	1216	41	2496	59°			
	Ambient Dim A14	15	539	36	4828	36°	479	32	2326	42°	467	31	1301	50°	429	29	689	63°			
CCT Multiplier																					
CCT	Citizen	2700	0.95	3000	1.00	3500	1.02	4000	1.03	All measurements based on 3000 CCT.											

All Measurements delivered or derived delivered lumens based on 3000K. ISO CD plots based on Open Regress

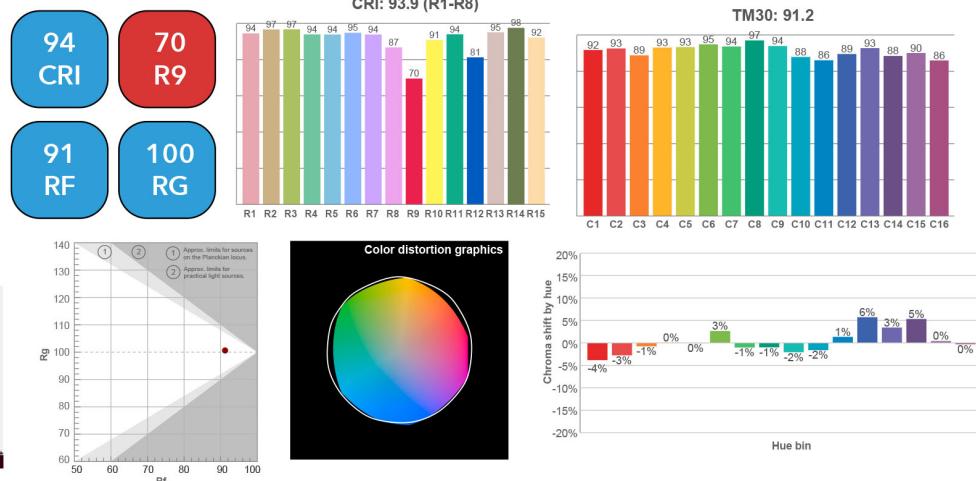
Ambient dim at full output. C28 source requires active cooling and must be used with NIC housing.

Flat (Pin Hole) at wider beam angles experience significant beam clipping - refer to PDF report for exact FWHM beam angle.

## Color Data

### Citizen Source C14, C20 and C28

- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1



### Ambient Dim 3000k to 1900k

- <3 MacAdam Ellipse (<3 SDCM)
- 95+ CRI and RF
- 90+R9, Hue Bin 1
- Follows Black Body Locus through dimming range

