# specialty lighting industries

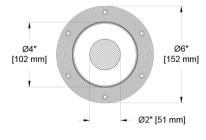
## The Core Family

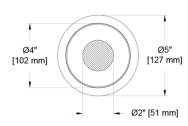
Welcome to the Core line of fixtures. You will find a rich diversity of technical and aesthetic options including 3 trim apertures, over 14 finishes including custom wood trims, flux and source selections featuring 90+ CRI fixed white and our world class Ambient Dim (Warm Dim), multiple beam spreads 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.

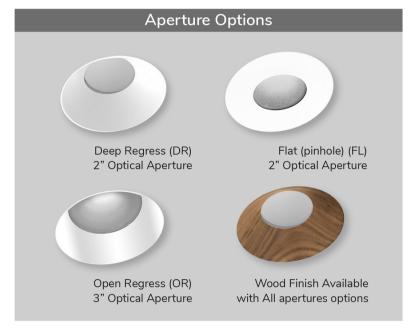




Deep Regress shown







PROJECT: TYPE:

SPECIFIER: DATE:

### Key Points (CR4D-RA)

### Trin

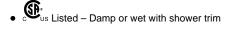
- Flanged or Flangeless
- · Flangeless includes plaster flange with lip
- 14 color options + custom RAL or wood available
- One-piece die cast aluminum or machined wood trim

### Source / Optics

- 2400K, 2700K, 3000K, 3500K, 4000K
   Ambient Dim, RGBW & Tunable White options
- 90 CRI, 60+ R9 Standard- 95 CRI 90+R9 Optional
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 2300 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



- 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

### Drive

- TruPhase<sup>™</sup>, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015 available with EldoLED and TruPhase<sup>™</sup> selections
- Prewired and integral to housing
- Universal 120-277v



# **Ordering Codes**

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: CR4D-RA-DR-Z-AU-C20-35-24-E2-P14-92A-91L-97L-CP

FIXTURE	APERTURE	TRIM	MOUNTING	0-35-24-E2-P14- SOURCE/WATTS	сст	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4D-RA										
Core 4" Round Adjustable Downlight	DR Deep Regress OR Open Regress FL Flat (Pin Hole)	Flanged Trims  F Flanged Trim  FS Flanged Shower Trim*  (for mounting choose from Flanged Housings)  Flangeless Trims  Z Flangeless Trim  ZS Flangeless Shower Trim*  (for mounting choose from Flangeless Housings)  * Aperture Lens Required	Flanged Housings  U Universal - Non-IC Housing  AU  Universal IC/Airtight  Flangeless Housings  P Plaster - Non-IC Housing  AP  Plaster IC/Airtight  PM Panel Mount  APM  Panel Mount  APM  Supports  CA Title24  compliance	Citizen  C14  15W 1074Lm** 90+CRI, 60+R9  C20  21W 1422Lm** 90+CRI, 60+R9  C28 30W* 2006Lm** 90+CRI, 60+R9  Tunable  T9 10W 90+CRI, 60+R9 Tunable White  T15 15W 90+CRI, 60+R9 Tunable White  T20  21W 90+CRI, 60+R9 Tunable White  RGBW 90+CRI, 60+R9 Tunable White  RGBW 90+CRI, 60+R9 Tunable White  A14  15W 858Lm 95+CRI, 90+R9  A20  21W 95+CRI, 90+R9  A20  21W 95+CRI, 90+R9	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 *A14 Only  3019 3000-1900K 3022* 3000-2200K *A14 Only	15 Spot 24 Narrow Flood 40 Flood 55 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 TruPhaseTM 0.1%, (100-277V) Up to 20W Forward and Reverse compatible Phase Dimming 2 Dimming Curves: Linear/Logarithmic Static White & Ambient Dim only  LD Digital Ecosystem* 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1  * Not compatible with C28	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  ** Refer to Finish Guide  TRIM GUIDE  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	EM Emergency Pack  CP Chicago Plenum  Controls  LR Lutron Wireless RF PowPak  ATH Lutron Athena Wireless Node Must be used with E2 driver  CA Casambi Wireless BLE to be paired with driver



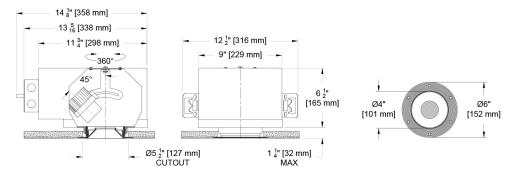
# Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

### Round Flangeless Housing

Plaster Mount (P/AP

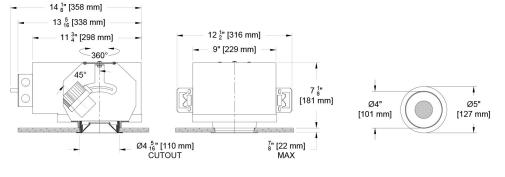
(CR4D-RA-DR-Z-P/AP)



### Round Flanged Housing

Flanged Mount (U/AU)

(CR4D-RA-DR -F-U/AU)

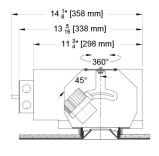


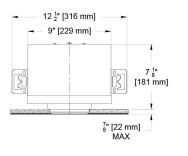
# Hanger Bar Detail FRAMING MEMBER CEILING HANGER BAR SUPPLIED W/FIXTURE BUTTERFLY BRACKET 14" [356 mm] 26" [660 mm]

### Round Flangeless Housing

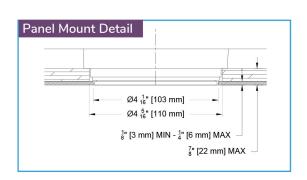
Panel Mount (PM/APM)

(CR4D-RA-DR -P-PM/APM)











# 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

	ROUND Beamspreads					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	Del. Lumens (lm)	Lms/ Watt	Peak CD	10% Field
Deep Regress	Citizen C14	15	1149	77	7832	42°	1074	72	4247	46°	1117	74	2867	51°	1098	73	1416	71°
	Citizen C20	21	1531	73	11189	43°	1422	68	6491	52°	1490	71	4096	56°	1464	70	2208	72°
	Citizen C28*	30	2046	68	16106	41°	2006	67	9871	47°	2069	69	5688	54°	2020	67	3155	69°
	Ambient Dim A14	15	882	59	7188	38°	858	57	4167	44°	801	53	2027	57°	844	56	1286	70°
Open Regress	Citizen C14	15	1267	84	7877	42°	1179	79	4203	52°	1183	79	2421	66°	1199	80	1533	75°
	Citizen C20	21	1689	80	12229	41°	1571	75	6562	57°	1578	75	3459	63°	1536	73	1965	76°
	Citizen C28*	30	2331	78	16883	44°	2169	72	9060	55°	2177	73	5140	67°	2163	72	2939	75°
	Ambient Dim A14	15	1001	67	7323	39°	987	66	4067	53°	991	66	2235	60°	969	65	1281	72°
(e)	Citizen C14	15	824	55	7851	37°	716	48	4844	46°	700	47	2801	51°	623	42	1370	64°
(Pin Hole)	Citizen C20	21	1099	52	11216	35°	967	46	6544	42°	933	44	3732	49°	830	40	1957	62°
(Pin	Citizen CZ8*	30	1517	51	16982	32°	1334	44	8389	44°	1288	43	5154	53°	1145	38	2962	59°
Flat	Ambient Dim A14	15	747	50	7305	36°	702	47	4077	42°	678	45	2247	50°	622	41	1076	63°
C	CCT Multiplier CCT Citizen		90		90			90				90						
2700 0.95		75 75 60 60		75 75 60			75 75 60 60				75 60 60							
3000 1.00 3500 1.02																		
	4000 1.03		45 30 30			45 30 30			45 30 45				45 30 45					
All measurements based on 3000 CCT. Ambient Dim based on full output.		15.2°			23.2			38.2°				15 0 15 55.8°						

ISO CD Plot based on open Regress. All data based on delivered or derived delivered lumens at 3000k. Ambient dim at full output.

# specialty lighting industries

### Color Data

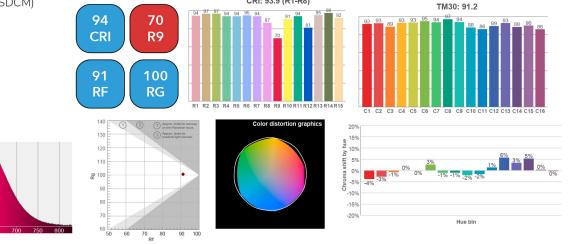
All data is based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

### Citizen Sources - C14, C20 and C28

- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF

Spectra

• 60+R9, Hue Bin 1



CRI: 93.9 (R1-R8)

### 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

