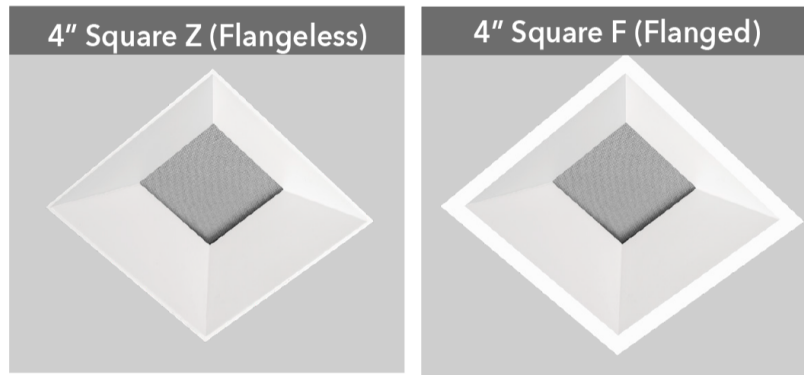
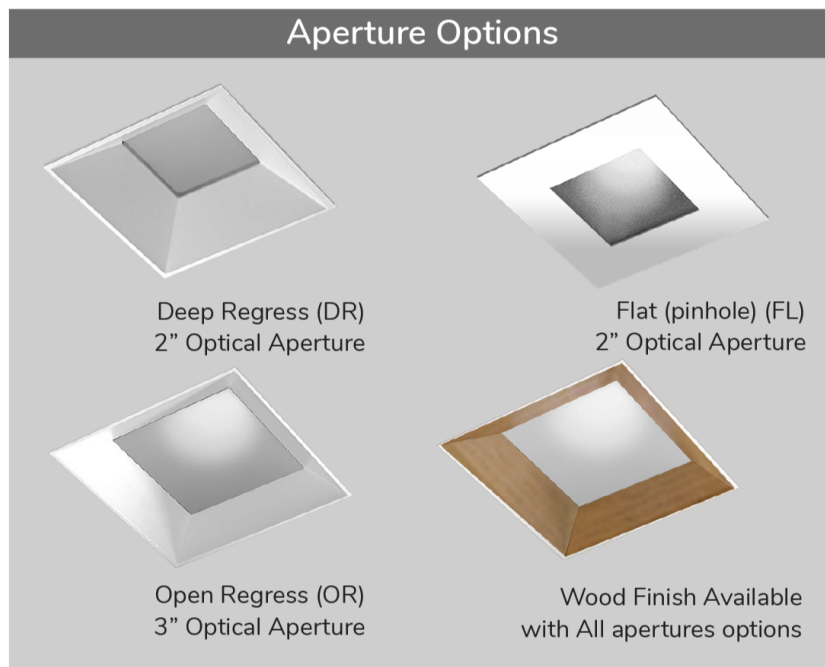
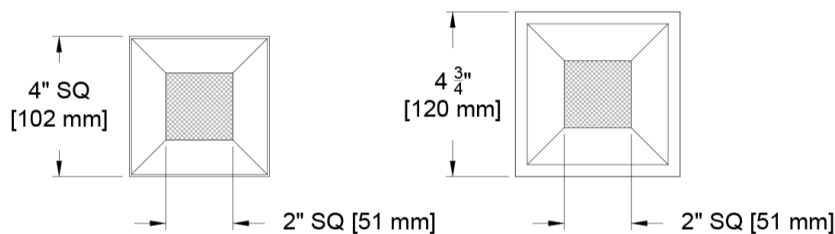


The Core Family

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 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-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

- 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
- 4 beamspreads available- 15°, 24°, 40°, and 55°

Housing

- Heavy gauge aluminum 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™, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015 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-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
CR4D-SF										
Core 4" Square Fixed Downlight	DR Deep Regress	Flanged Trims	Flanged Housings	Citizen	24 2400K	15 Spot	C1 0-10 1.0%, UNV (120-277V) linear	W White Paint	Aperture Lens	CP Chicago Plenum
	OR Open Regress	F Flanged Trim	U Universal - Non IC Housing	C14   15W 995Lm** 90+CRI, 60+R9	30 3000K	24 Narrow Flood	C2 ELV/Triac 1.0%, (120V) linear	B Black Paint	91A Solite	EM Emergency Pack
	FL Flat (Pin Hole)	FS Flanged Shower Trim* (for mounting choose from Flanged Housings)	AU   Universal IC/Airtight*	C20   21W 1326Lm** 90+CRI, 60+R9	35 3500K	40 Flood	E1 0-10 0.1%, UNV (120-277V) log	D Wood*	93A Frosted	Controls
		Flangeless Trims	Flangeless Housings	C28   30W*† 1857Lm** 90+CRI, 60+R9	40 4000K	55 Wide Flood	E2 DALI-2 0.1%, UNV (120-277V) log	PXX Specialty Paint Color*	XXA Other Aperture Lens Treatments*	LR Lutron Wireless RF PowPak
		Z Flangeless Trim	P Plaster - Non IC	Tunable	27 2700K		E3 0-10 0.1%, UNV (120-277V) linear	Wood*	Reflector (lamp) Media	ATH Lutron Athena Wireless Node Must be used with E2 driver
		ZS Flangeless Shower Trim* (for mounting choose from Flangeless Housings)	AP   Plaster IC/Airtight*	T9 10W 90+CRI, 60+R9 Tunable White	TW1840 1800-4000K Tunable White w/ E1, E2, E3, E4		E4 0-10 0.1%, UNV (120-277V) linear	P01-P15	91L Solite	CA Casambi Wireless BLE to be paired with driver
		APM   Panel Mount IC/Airtight*	PM Panel Mount	T15 15W 90+CRI, 60+R9 Tunable White	TW2765 2700-6500K Tunable White w/ E1, E2, E3, E4		E4^ DMX 0.1%, UNV (120-277V) Universal DMX Driver/Controller RGBW-DMX	C Custom/RAL Color** 	93L Frosted	
		* Aperture Lens Required	  Supports California Title 24 compliance to JA8 Requirements *Cannot be used with C28 Source	T20   21W 90+CRI, 60+R9 Tunable White	RG1280 1200-8000K RGBW Dynamic Color Changing *Requires E2 or E4		LD Digital Ecosystem 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1	*Wood "D" Selection to be used with Z trim and PM mounting **See Specialty Finish Guide	97L Black Hexcel Louver	
				RGBW 90+CRI, 60+R9	Ambient Dim™		TR2 TruPhase™ 0.1%, (100-277V) Up to 20W Forward and Reverse compatible Phase Dimming 2 Dimming Curves: Linear/Logarithmic Static White & Ambient Dim only	 	XXL Other reflector (lamp) media* 1 piece of Media per opening (aperture or reflector) can be selected *Refer to Lens Accessory Guide	
				A14   15W 656Lm 95+CRI, 90+R9	2722* 2700-2200K *A14 Only		* Not compatible with C28			
				A20   21W 858Lm 95+CRI, 90+R9	3019 3000-1900K					
				  California Title 24 Compliant to JA8 * Requires Active Cooling and not compatible with IC/Airtight housing. Not compatible with L2 and LP drivers.	3022* 3000-2200K *A14 Only					
				†Flat Aperture does not meet Title 24						
				+EldoLED driver selection required and will be supplied with 2 channel version						

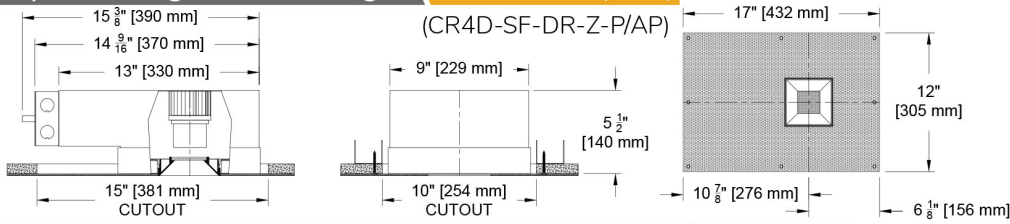
Ceiling Cutouts and Dimensions

Deep Regress shown - other apertures are similar

Square Flangeless Housing

Plaster Mount (P/AP)

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

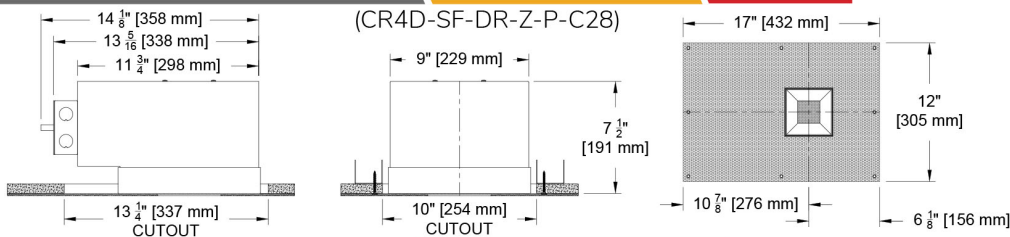


Square Flangeless Housing

Plaster Mount (P)

C28 Only*

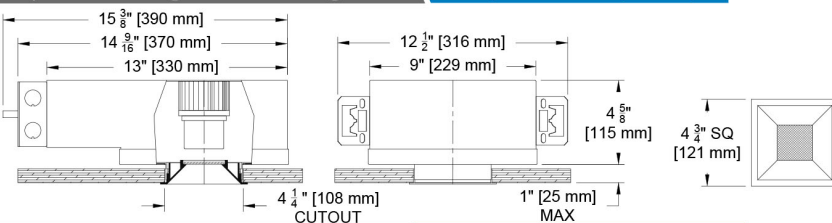
(CR4D-SF-DR-Z-P-C28)



Square Flanged Housing

Flanged Mount (U/AU)

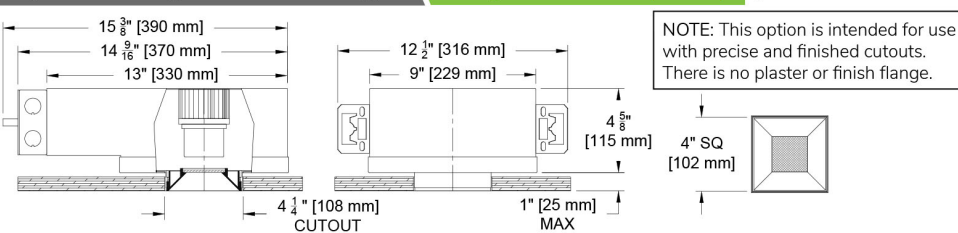
(CR4D-SF-DR-F-U/AU)



Square Flangeless Housing

Flangeless Mount (U/AU)

(CR4D-SF-DR-Z-U/AU)

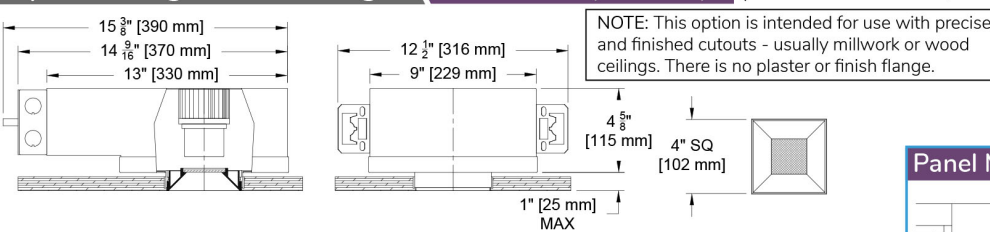


NOTE: This option is intended for use with precise and finished cutouts. There is no plaster or finish flange.

Square Flangeless Housing

Panel Mount (PM/APM)

(CR4D-SF-DR-Z-PM/APM)



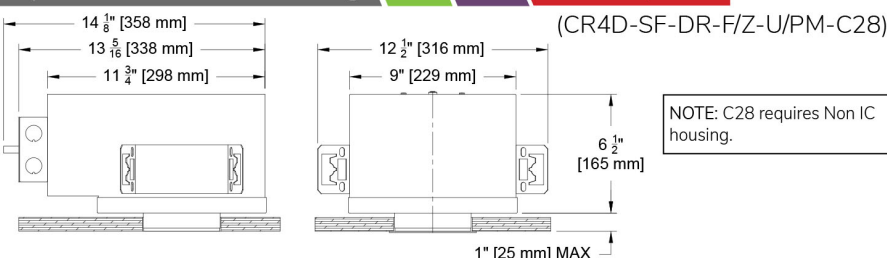
NOTE: This option is intended for use with precise and finished cutouts - usually millwork or wood ceilings. There is no plaster or finish flange.

Square Universal Housing

(U) (PM)

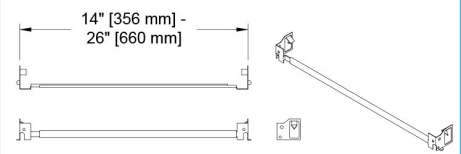
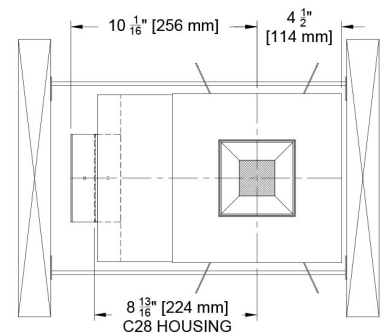
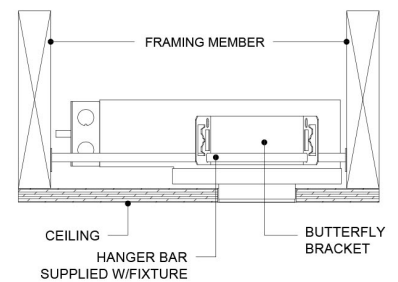
C28 Only*

(CR4D-SF-DR-F/Z-U/PM-C28)

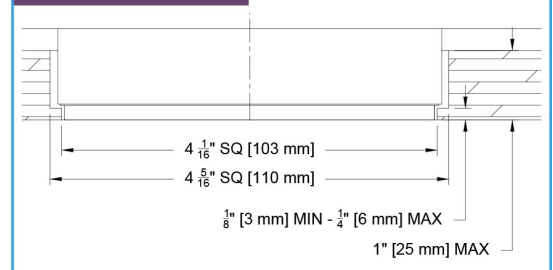


NOTE: C28 requires Non IC housing.

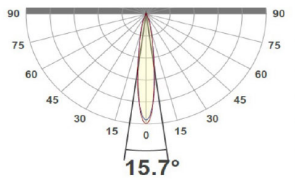
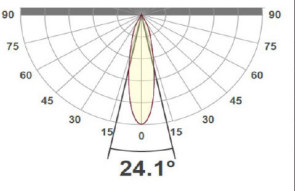
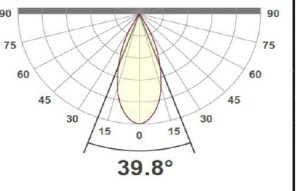
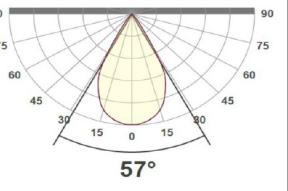
Hanger Bar Detail



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 CZ8*	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

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

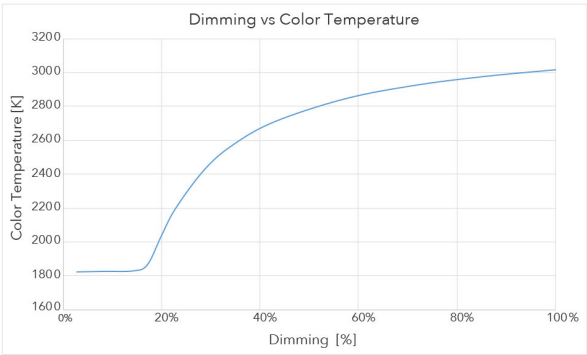
Citizen Sources - C14, C20 and C28

- <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



3000 CCT Full Output



1850 CCT 5% Output

