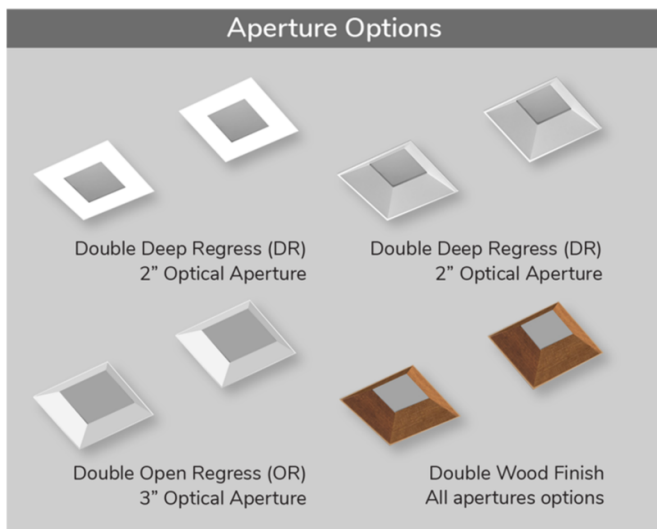
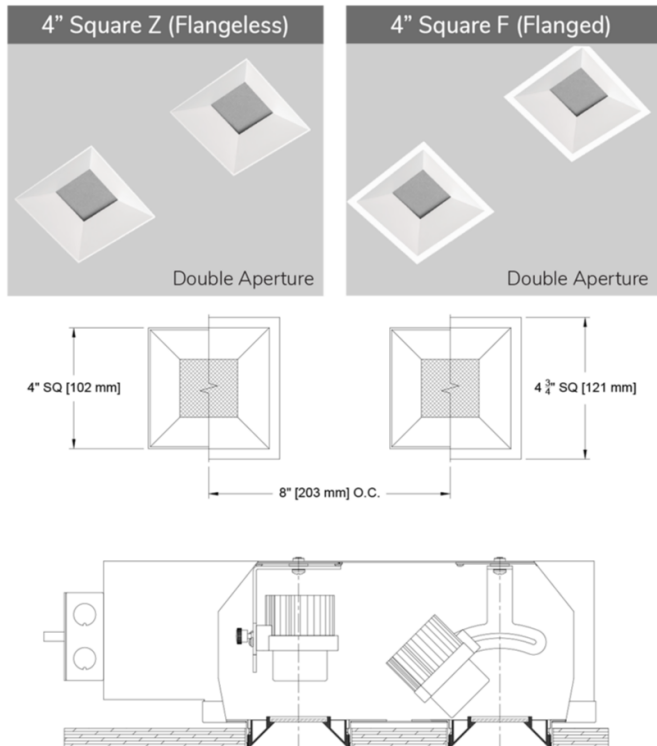


# Core 4" Square Double Adjustable Downlight (102mm - 8" on center)

2 Aperture Adjustable Recessed Accent/Downlight

## The Core Family

When one Core is not enough, you can make it a double. Need more light, or savings on installation costs, this 8" on center dual aperture fixture delivers a rich diversity of technical and aesthetic options including 3 trim aperture types, 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 for it.



PROJECT:

TYPE:

SPECIFIER:

DATE:

### Key Points (CR4MD-SMDL)




#### Trim

- Flanged or Flangeless
- Plaster Mount allows installation from below with large plaster flange and 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 4200 delivered lumens with both apertures and C28 source selection
- Adjustable to 45° with 358° of rotation
- 4 beamspreads available- 15°, 24°, 40°, and 55°

#### Housing

-  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
- Heavy gauge aluminum for new construction or remodel

#### Driver

- Dimming to 0.1% available
- Universal 120-277v
- Prewired and integral to housing
- Flicker free to IEEE 1798-2015
- Phase, 0-10, DALI-2, DMX, Ecosystem or Wireless Control

Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR4MD-SMDL-DR-Z-APM-C20-35-24-E2-2C-D-91A-97L-CP

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	CIRCUITS	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4MD-SMDL											
Core 4" Square Double Adjustable Downlight	DR Double Deep Regress	Flanged Trims	Flanged Housings	Citizen	24 2400K	15 Spot	C1 0-10 1.0%, UNV (120-277V) linear	1C 1 Circuit	W White Paint	Aperture Lens	CP Chicago Plenum
	OR Double 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	2C 2 Circuit	B Black Paint	91A Solite	EM Emergency Pack
	FL Double Flat (Pin Hole)	FS Flanged Shower Trim*	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*	XXA Other Aperture Lens Treatments*	Controls
		(for mounting choose from Flanged Housings)	AP Plaster IC/Airtight*	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*	Reflector (lamp) Media	LR Lutron Wireless RF PowPak
		Flangeless Trims	Flangeless Housings	Tunable	Tunable		E3 0-10 0.1%, UNV (120-277V) linear		C Custom/RAL Color**	91L Solite	ATH Lutron Athena Wireless Node <i>Must be used with E2 driver</i>
		Z Flangeless Trim	P Plaster - Non-IC Housing	T9 90+CRI, 60+R9 Tunable White	TW1840 1800-4000K Tunable White w/ E1, E2, E3, E4		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			93L Frosted	CA Casambi Wireless BLE to be paired with driver
		ZS Flangeless Shower Trim*	PM Panel Mount	T20 21W 90+CRI, 60+R9 Tunable White	TW2765 2700-6500K Tunable White w/ E1, E2, E3, E4		Lutron			97L Black Hexcel Louver	
		(for mounting choose from Flangeless Housings)	APM Panel Mount Airtight/IC*	RGBW 90+CRI, 60+R9 Ambient Dim™	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			XXL Other reflector (lamp) media*	
		* Aperture Lens Required	California Title Compliant *Cannot be used with C28 Source	A14 15W 656Lm 95+CRI, 90+R9	2722* 2700-2200K *A14 Only		LP Digital Ecosystem* 0.1%, UNV (120-277V) ECO Premier Hi-Lume SoftOn/Fade-to-Black, PEQ0, 20W max  * Not compatible with C28 Source			1 piece of Media per opening (aperture or reflector) can be selected *See Lens Accessory Guide	
				A20 21W 95+CRI, 90+R9	3019 3000-1900K						

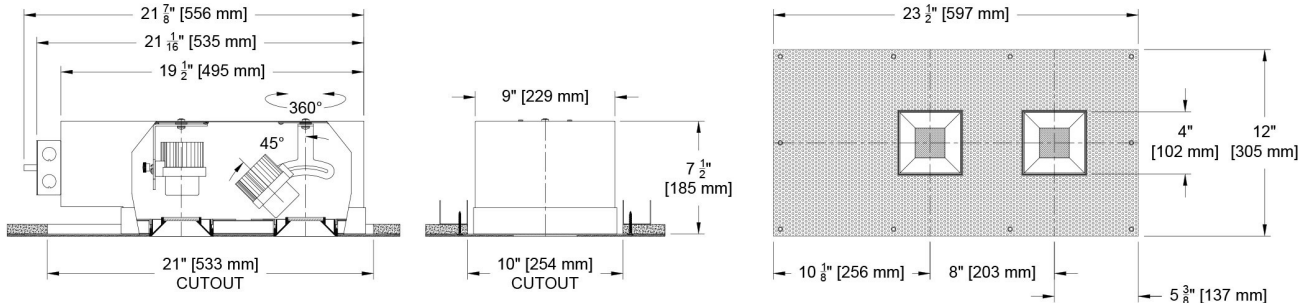
# Ceiling Cutouts and Dimensions

Deep Regress Shown - other apertures similar

## 4" Square Flangeless Housing

### Plaster Mount (P/AP)

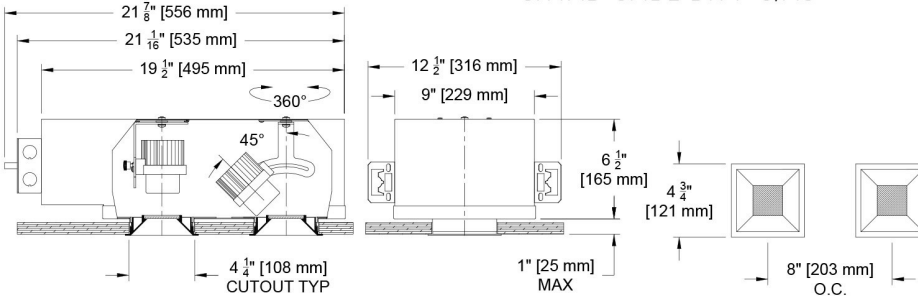
CR4MD-SMDL-DR-Z-P/AP



## 4" Square Flanged Housing

### Flanged Mount (U/AU)

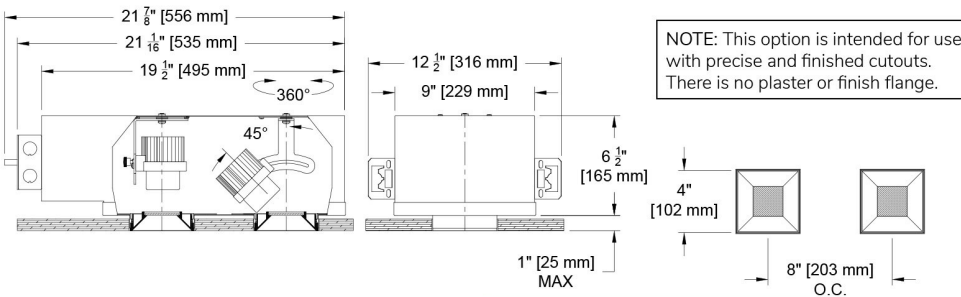
CR4MD-SMDL-DR-F-U/AU



## 4" Square Flangeless Housing

### Flangeless Mount (U/AU)

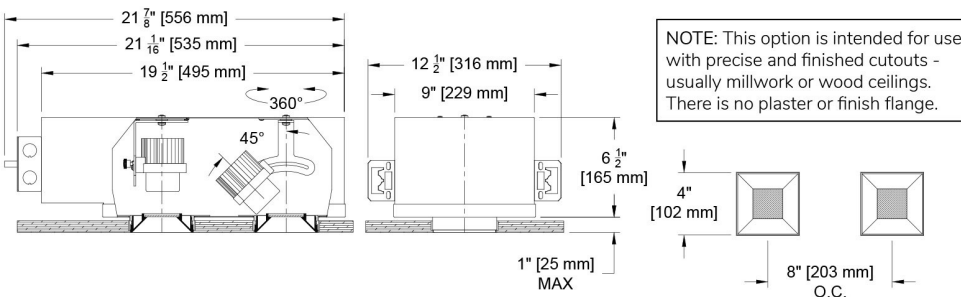
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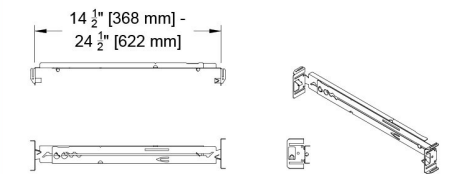
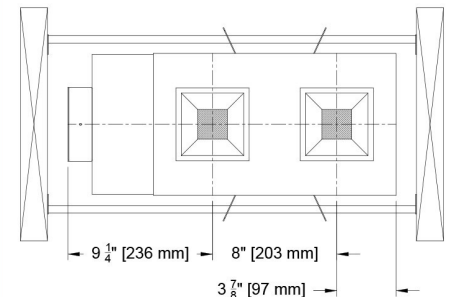
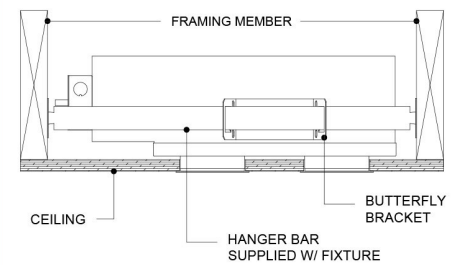
## 4" Square Flangeless Housing

### Panel Mount (PM/APM)

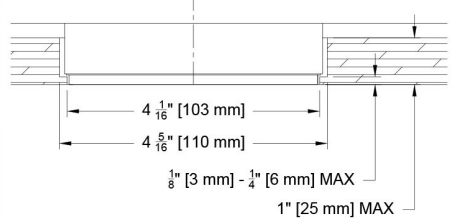
CR4MD-SMDL-DR-Z-PM/APM



## Hanger Bar Detail

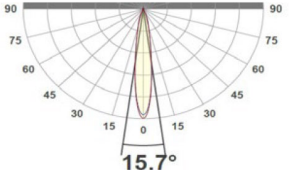
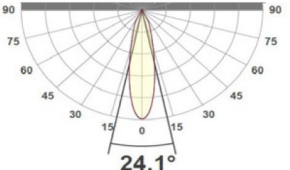
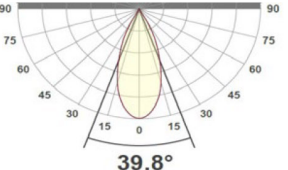
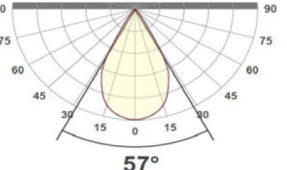


## Panel Trim Detail



Photometric Table

Values are based on a single aperture CR4D-SA. Calculations will require placing the second head (file) 8" on center from the first placed IES file. All Measurements are delivered or derived delivered lumens based on 3000k. Ambient dim at full output. C28 source requires active cooling and must be used with NIC housing for required airflow. Flat (Pin Hole) aperture wide beams experience significant beam clipping - refer to PDF report for exact FWHM beam angle. All values can vary +/-10% from source manufacturer rated flux range.

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 are delivered or derived delivered lumens based at 3000k. Values are based on a single downlight. Multiple downlights will deliver more light. For calculations, place 2 downlights 8" on center for each fixture location.

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

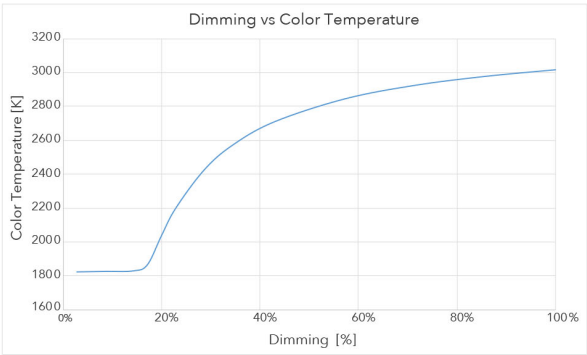
Citizen Source C14, C20 and C28

- <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



3000 CCT Full Output



1850 CCT 5% Output

