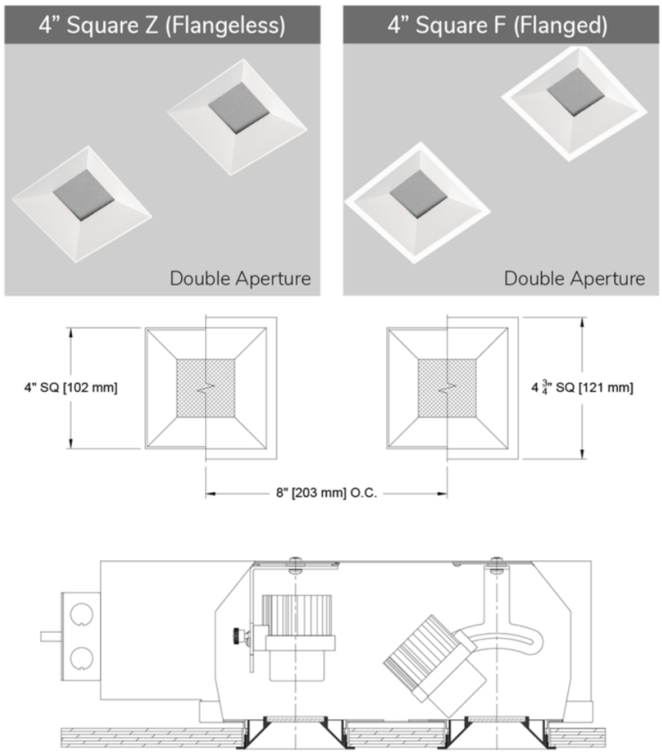
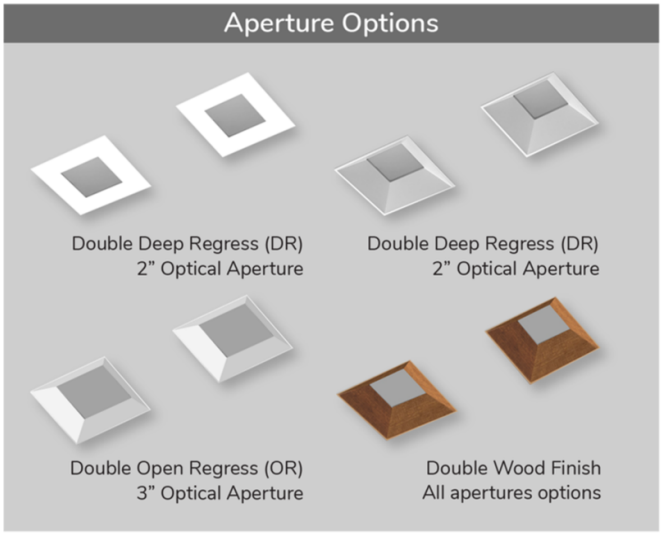
Core 4" Square Double Adjustable Downlight (102mm - 8" on center)

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

- 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 45º with 358º of rotation
- 4 beamspreads available- 15º, 24º, 40º, and 55º

Housing

- Heavy gauge aluminum for new construction or remodel
- TITLE 24 Compliant to JA8 with Airtight Housing
- c SP 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

Driver

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

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2 Aperture Adjustable Recessed Accent/Downlight

specialty lighting industries

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	LUMENS / WATTS	CCT	BEAM	DRIVER / CONTROL	CIRCUITS	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4MD-SMDL											
Core 4" Square Double Adjustable Downlight	DR Double Deep Regress OR Double Open Regress FL Double 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 Airtight Universal *IC-Rated* AP Airtight Plaster *IC-Rated* **Flangeless Housings** P Plaster - Non-IC Housing PM Panel Mount APM Airtight Panel Mount *IC-Rated* California Title Compliant *Cannot be used with C28 Source	**Citizen** C14 15W 995Lm** 90+CRI, 60+R9 C20 21W 1326Lm** 90+CRI, 60+R9 C28 30W*† 1857Lm** 90+CRI, 60+R9 **Tunable** T9 90+CRI, 60+R9 *Tunable White* T20 21W 90+CRI, 60+R9 *Tunable White* RGBW 90+CRI, 60+R9 **Ambient Dim™** A14 15W 656Lm 95+CRI, 90+R9 A20 21W 95+CRI, 90+R9 California Title 24 Compliant to JA8. * Requires Active Cooling and not compatible with IC/Airtight housing. Not compatible with L2 and LP drivers. †Does not Meet CA Title 24 with Flat aperture.	24 2400K 30 3000K 35 3500K 40 4000K 27 2700K **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* LD Digital Ecosystem 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1 TR2 TruPhase™ 0.1%, (120-120V) log Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only * Not compatible with C28 Source	1C 1 Circuit 2C 2 Circuit	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 **See Specialty 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	CP Chicago Plenum EM Emergency Pack* **Remote Required* CA Casambi Wireless BLE to be paired with driver BABA BABA Products **Controls** LR Lutron Wireless RF PowPak ATH Lutron Athena Wireless Node *Must be used with E2 driver*

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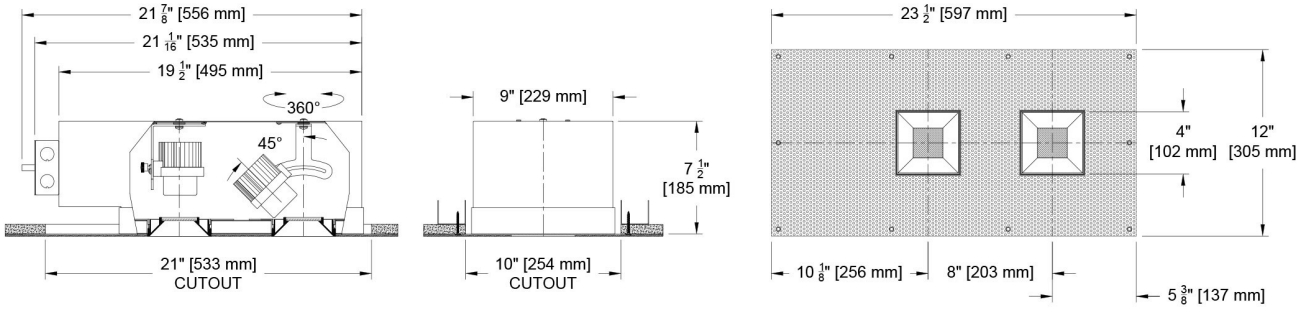
Ceiling Cutouts and Dimensions

Deep Regress Shown - other apertures similar

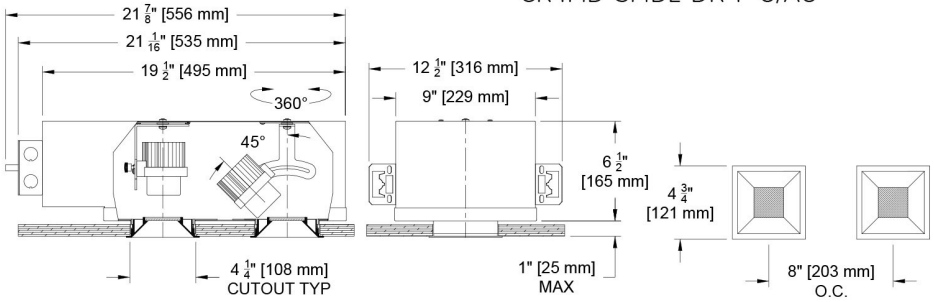
4" Square Flangeless Housing — Plaster Mount (P/AP)

CR4MD-SMDL-DR-Z-P/AP



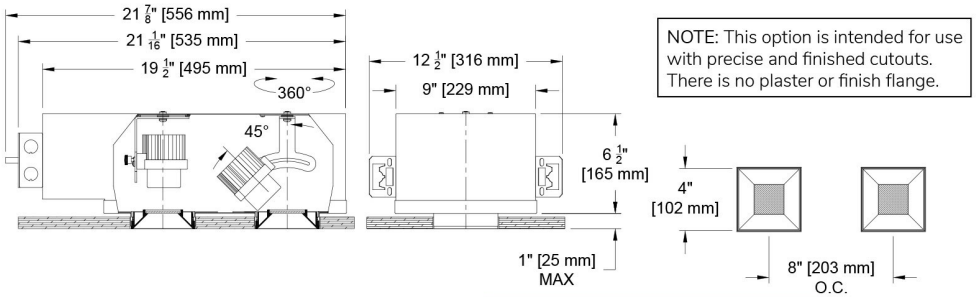
4" Square Flanged Housing — Flanged Mount (U/AU)

CR4MD-SMDL-DR-F-U/AU



4" Square Flangeless Housing — Flangeless Mount (U/AU)

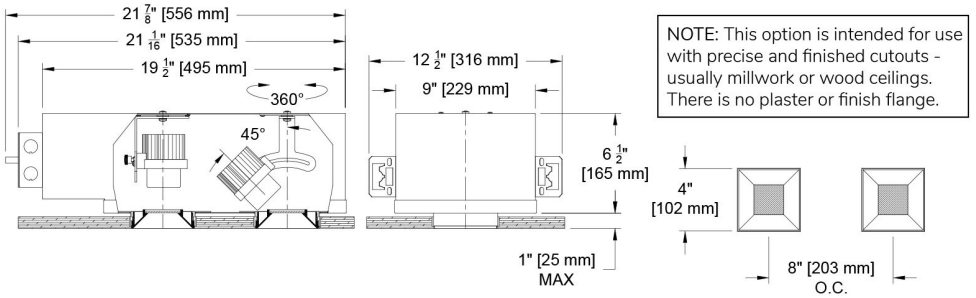
CR4MD-SMDL-DR-Z-U/AU



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

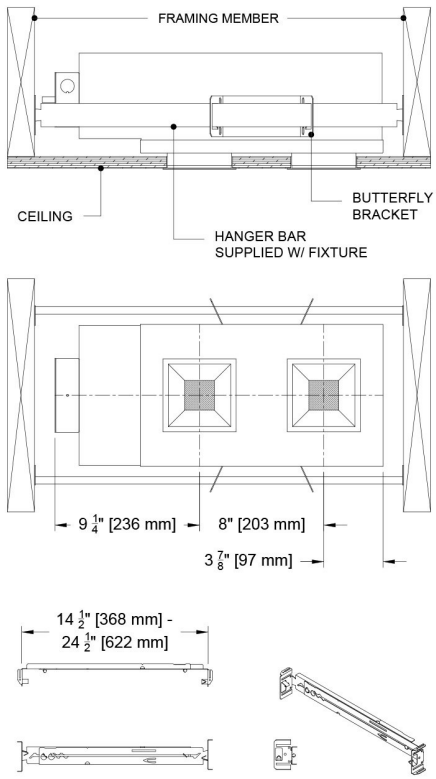
4" Square Flangeless Housing — Panel Mount (PM/APM)

CR4MD-SMDL-DR-Z-PM/APM

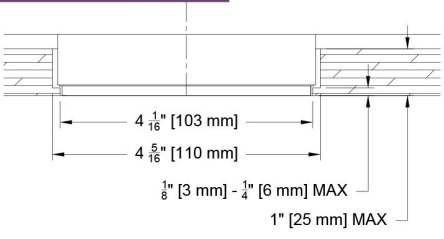


NOTE: This option is intended for use with precise and finished cutouts - usually millwork or wood ceilings. There is no plaster or finish flange.

Hanger Bar Detail



Panel Trim Detail



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

2 Aperture Adjustable Recessed Accent/Downlight

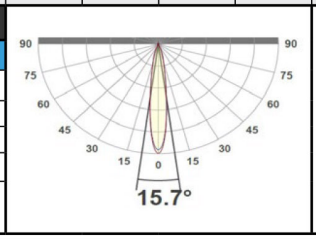
Photometric Table

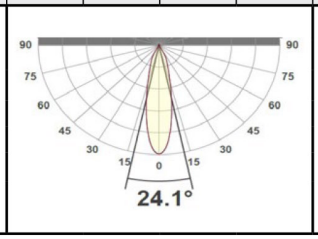
Values are based on a single aperture CR4D-SA. Calculations will require placing the second head (file) 8" on center from the first placed IES file. All Measurements are delivered or derived delivered lumens based on 3000k. Ambient dim at full output. C28 source requires active cooling and must be used 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 very +/-10% from source manufacturer rated flux range.

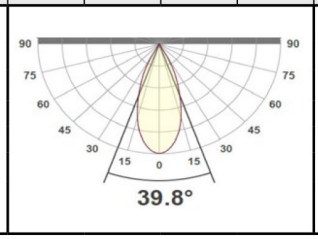
SQUARE Beamspreads			15°				24°				40°				55°			
	Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt	Peak cd	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak cd	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak cd	10% Field	Delivered Lumens (lm)	Lms/ Watt	Peak cd	10% Field
Deep Regress	Citizen 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°

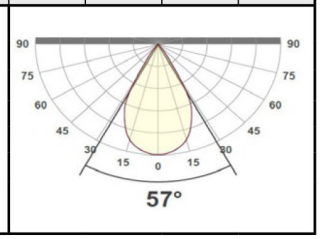
CCT Multiplier	
CCT	Citizen
2700	0.95
3000	1.00
3500	1.02
4000	1.03

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.

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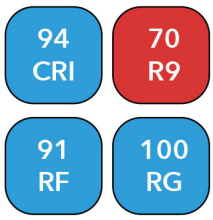
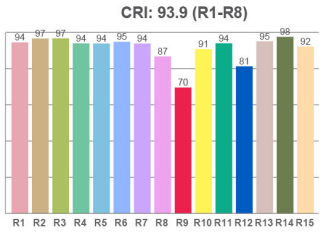
Color Data

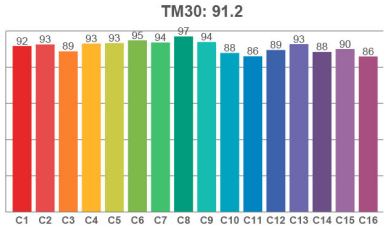
All data is based from goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

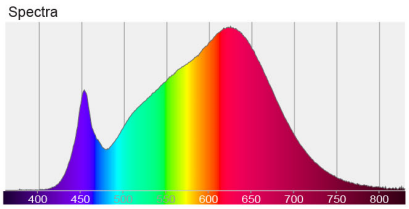
Citizen Source C14, C20 and C28

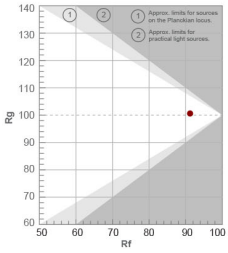
- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

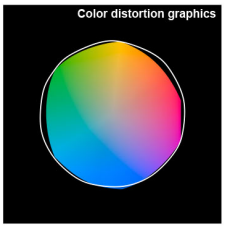


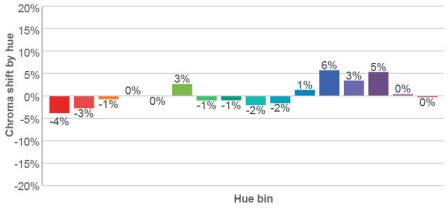






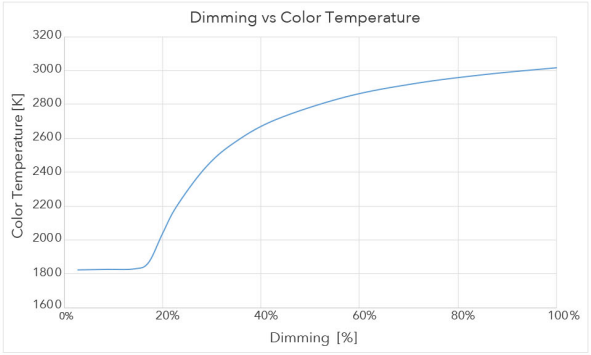




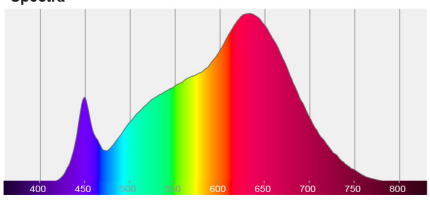


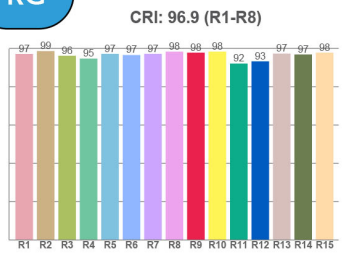
Ambient Dim 3000k to 1900k

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

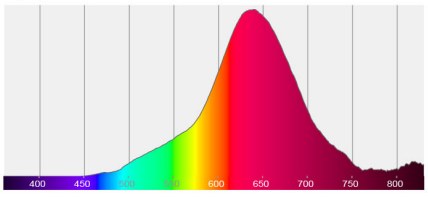


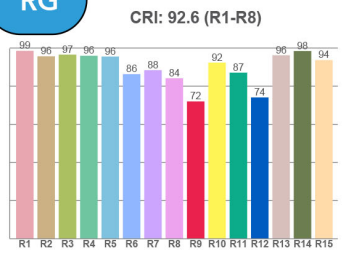
3000 CCT Full Output





1850 CCT 5% Output





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