Formerly known as 1009, 1012 and 1017 Adjustable Recessed Accent Light

specialty lighting industries

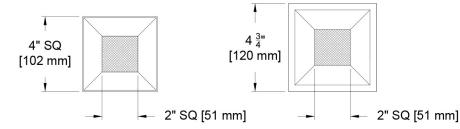
The Core Family

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



TYPE: PROJECT:

SPECIFIER: DATE:

Key Points (CR4D-SA)

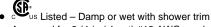
- Flanged or Flangeless
- Flangeless includes plaster flange with lip
- 14 color options + custom RAL or wood available
- One-piece die cast aluminum or machined wood trim

Source / Optics

- Lifetime: L87B3>55,000 hours at 40°C Ambient
- 2700, 3000, 3500, 4000K, Ambient Dim standard. Tunable White and RGBW upon request
- 90 CRI, 60+ R9 Standard- 95 CRI 90+R9 Optional with Ambient
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 2100 delivered lumens
- Adjustable to 45° with 358° of rotation
- 4 beamspreads available- 15°, 24°, 40°, and 55°

Compliant to With Airtight Housing

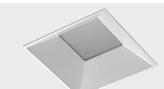


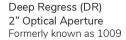


- Approved for 8 (4-in / 4-out) #12 AWG conductors rated for 90°C through wiring
- IC Rated / Airtight Housing approved for use in direct contact with insulation - Chicago Plenum Available
- Heavy gauge aluminum for new construction or remodel

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

Aperture Options







FL- Flat (Pin Hole) 2" Optical Aperture Formerly known as 1012



Open Regress (OR) 3" Optical Aperture Formerly known as 1017



Wood Finish All apertures options

SQUARE Beamspreads			1	5°		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
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°

All Measurements delivered or derived delivered lumens based on 3000k with Deep Regress. Ambient dim at full output. C28 source requires active cooling and must be used with NIC housing.

Core 4" Square Downlight (102mm)

Formerly known as 1009, 1012 and 1017 Adjustable Recessed Accent Light



Ordering Codes

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

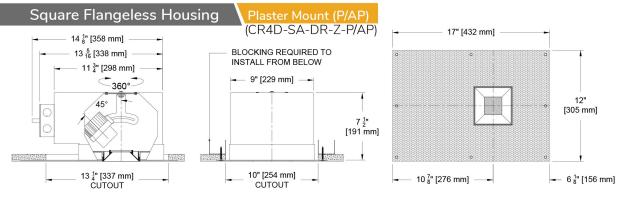
Ordering Code Example: CR4D-SA-DR-Z-AU-C20-35-24-E2-P16-91A-91L-97L-CP-LR

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	сст	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4D-SA										
Core 4" Square Adjustable Downlight	DR Deep Regress OR Open Regress FL Flat (Pin Hole)	F Flanged Trim Z Flangeless Trim FS Flanged Shower Trim* ZS Flangeless Shower Trim* * Aperture Lens Required	Flanged Housings U Universal - Non IC Housing AU Universal IC/Airtight* Flangeless Housings P Plaster IC/Airtight* PM Panel Mount APM Panel Mount Airtight/IC* Supports CA Title 24 compliace to JA8 requirements *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 Ambient Dim A14 15W 656Lm 95+CRI, 90+R9 3000 to 1900K Tunable White 90+CRI, 70+R9 1800-4000K or 2700-6500K*+ RGBW 90+CRI, 60+R9 A Supports CA Title 24 compliance to JA8 requirements. * Requires Active Cooling, must be used with NIC housing. Not compatible with L2 and LP drivers. †Does not Meet CA Title 24 with Flat aperture. ** Based on Deep Regress 24° beam. ^ Contact factory for photometrics +EldoLED driver selection required and will be supplied with 2 channel version	27 2700K 30 3000K 35 3500K 40 4000K AD 3000-1900K	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 EldoLED 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 Lutron LD Digital Ecosystem 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1 LP Digital Ecosystem* 0.1%, UNV (120-277V) ECO Premier Hi-Lume SoftOn/Fade-to-Black PEQO, 20W max * Not compatible with C28 Source	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 FINSH 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 LNS ACCESSORY ACCESSORY LINK	EM Emergency Pack EMP Emergency Pack with phase cut control system utilizing C1 driver 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

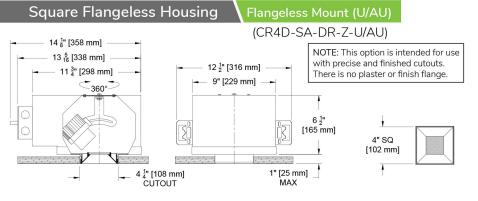


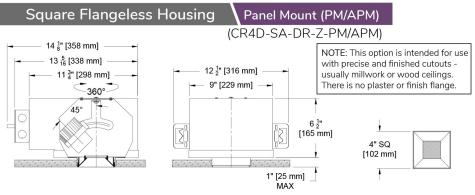
Ceiling Cutouts and Dimensions

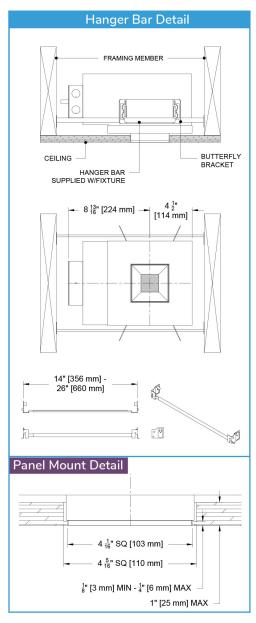
Deep Regress Shown - other apertures similar



Square Flanged Housing Flanged Mount (U/AU) (CR4D-SA-DR-F-U/AU) 14 ½" [358 mm] 13 ⁵/₁₆ [338 mm] 12 ½" [316 mm] 11 3" [298 mm] 9" [229 mm] ⊂360° 6 1/2" [165 mm] [121 mm] 1" [25 mm] 4 ¹/₄" [108 mm] CUTOUT MAX







Core 4" Square Downlight (102mm)

Formerly known as 1009, 1012 and 1017 Adjustable Recessed Accent Light



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			1	5°		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
SS	Citizen C14	15	1068	71	7642	42°	995	66	4174	46°	1037	69	3429	51°	996	66	1402	71°
Regress	Citizen C20	21	1424	68	10190	40°	1326	63	5562	39°	1382	66	4570	55°	1328	63	1870	73°
Re	Citizen C28*	30	1848	62	13223	44°	1857	62	7791	47°	1916	64	6336	54°	1816	61	2556	69°
Deep	Ambient Dim A14	15	694	46	6220	43°	656	44	3189	44°	656	44	1827	53°	643	43	1028	70°
ς,	Citizen C14	15	1173	78	7776	42°	1091	73	4167	52°	1112	74	2422	66°	1058	71	1357	74°
Regress	Citizen C20	21	1564	74	10369	41°	1455	69	5559	57°	1482	71	3199	63°	1411	67	1810	76°
Rec	Citizen C28*	30	2158	72	14306	44°	2008	67	7669	55°	2045	68	4455	67°	1947	65	2496	72°
Open	Ambient Dim A14	15	810	54	5857	39°	779	52	3270	56°	779	52	1829	60°	764	51	1058	72°
le)	Citizen C14	15	829	55	7740	37°	737	49	1436	46°	719	48	2379	51°	661	44	1357	64°
ĬĔ	Citizen C20	21	1105	53	10321	35°	982	47	5513	42°	958	46	3169	49°	881	42	1808	62°
Flat (Pin Hole)	Citizen CZ8*	30	1525	51	14258	32°	1355	45	7604	44°	1322	44	4375	53°	1216	41	2496	59°
Flat	Ambient Dim A14	15	539	36	4828	36°	479	32	2326	42°	467	31	1301	50°	429	29	689	63°
	CCT Multiplier		90				90				90				90			
	CCT Citizen 2700 0.95		75				75				75				75			
30	3000 1.00		60	X	HXX	60	60				60 60				60			
-	3500 1.02		1000	45 30 45 30			45 30 15 30			30 30			45 30 15 0 15					
\vdash	4000 1.03				4													
All measurements based on 3000 CCT.			15	5.7°			24.1°			39.8°				57°				

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.

Formerly known as 1009, 1012 and 1017 Adjustable Recessed Accent Light

specialty lighting industries

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

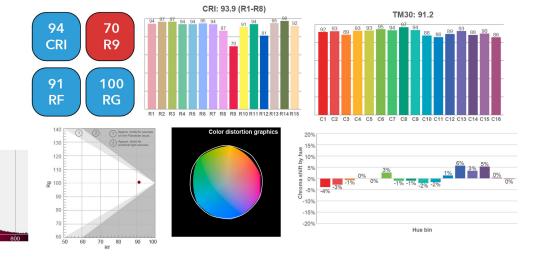
Citizen Source C14, C20 and C28



• 90+ CRI and RF

Spectra

• 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

