

The Core Family

Welcome to the Core 6" fixed downlight where up to 4000 lumens are packaged in Specialty Lighting elegance. You will find a rich diversity of technical and aesthetic options including 2 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 a 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.



PROJECT:

TYPE:

SPECIFIER:

DATE:

Key Points (CR6D-RF)

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

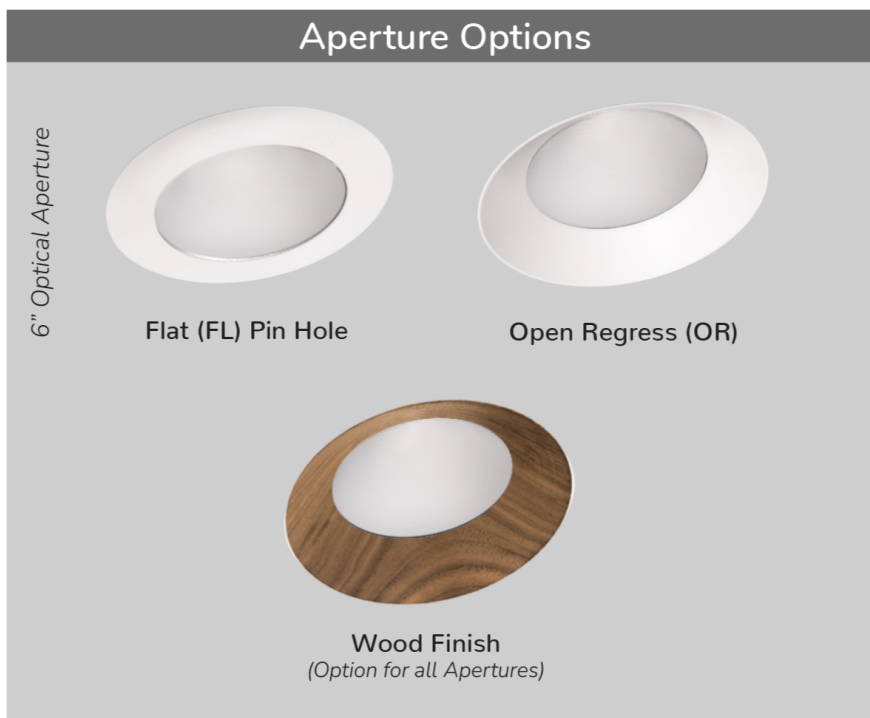
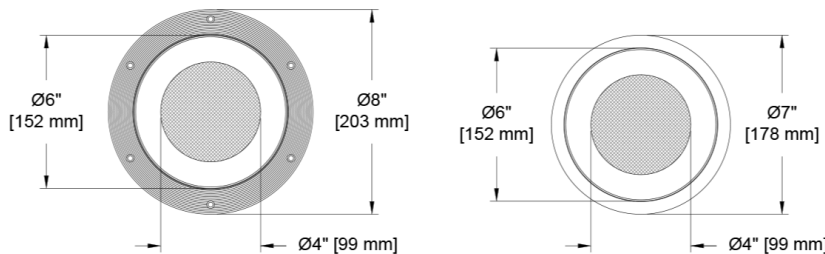
- Lifetime: L87B3>55,000 hours at 40°C Ambient
- 2400K, 2700K, 3000K, 3500K, 4000K
Ambient Dim, RGBW, Tunable White options
- 90 CRI, 60+ R9 Standard- 95 CRI 90+R9 Optional
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 4000 delivered lumens
- 3 beamspreads available- 20°, 38° and 65°

Housing

- **TITLE 24** Fixture supports CA Title 24 compliance to JA8 requirements with Airtight Housing
- **UL** 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

- Phase, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015 available
- Prewired and integral to housing
- Universal 120-277v



Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR6D-RF-OR-Z-AP-C23-35-38-E2-P14-91A-CP

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR6D-RF										
Core 6" Round Fixed Downlight	OR Open Regress	Flanged Trims	Flanged Housings	Citizen	24 2400K	20 Spot	C1 0-10 1.0%, UNV (120-277V) linear	W White Paint	Aperture Lens	CP Chicago Plenum
	FL Flat (Pin Hole)	F Flanged Trim	U Universal - Non-IC Housing	C11 13W 1608Lm** 90+CRI, 60+R9	27 2700K	38 Flood	C2 ELV/Triac 1.0%, (120-277V) linear	B Black Paint	91A Solite	EM Emergency Pack
		FS Flanged Shower Trim*	AU Universal IC/Airtight*	C16 19W 2235Lm** 90+CRI, 60+R9	30 3000K	65 Wide Flood	E1 0-10 0.1%, UNV (120-277V) log	D Wood*	93A Frosted	Controls
		(for mounting choose from Flanged Housings)	Flangeless Housings	C23 27W # 3100Lm** 90+CRI, 60+R9	35 3500K		E2 DALI-2 0.1%, UNV (120-277V) log	PXX Specialty Paint Color*	XXA Other Aperture Lens Treatments*	LR Lutron Wireless RF PowPak
		Flangeless Trims	P Plaster - Non-IC Housing	C34 38W *# 4008Lm** 90+CRI, 60+R9	40 4000K		E3 0-10 0.1%, UNV (120-277V) linear	D Wood*	1 piece of media per opening (aperture or reflector) can be selected.	ATH Lutron Athena Wireless Node Must be used with E2 driver
		Z Flangeless Trim	AP Plaster IC/Airtight*	Tunable	TW1840 1800-4000K Tunable White w/ E1, E2, E3, E4		E4^ DMX 0.1%, UNV (120-277V) Universal DMX Driver/Controller RGBW-DMX	P01-P15	*See Lens Accessory Guide	CA Casambi Wireless BLE to be paired with driver
		ZS Flangeless Shower Trim*	PM Panel Mount	T9 10W 90+CRI, 60+R9 Tunable White	TW2765 2700-6500K Tunable White w/ E1, E2, E3, E4		LD Digital Ecosystem 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1	C Custom/RAL Color**		
		(for mounting choose from Flangeless Housings)	APM Panel Mount Airtight/IC*	T15 15W 90+CRI, 60+R9 Tunable White	RG1280 1200-8000K RGBW Dynamic Color Changing *Requires E2 or E4		LP Digital Ecosystem* 0.1%, UNV (120-277V) ECO Premier Hi-Lume SoftOn/Fade-to-Black, PEQ0, 20W max			
		* Aperture Lens Required	Supports CA Title24 compliance	T20 21W 90+CRI, 60+R9 Tunable White	Ambient Dim™ 2722 * 2700-2200K *A14 Only		* Not compatible with C23, C34 and A34			
			*Cannot be used with C34 and A34 Source	RGBW 90+CRI, 60+R9	3019 3000-1900K					
				A14 15W 858Lm 95+CRI, 90+R9	3022 * 3000-2200K *A14 Only					
				A20 21W 858Lm 95+CRI, 90+R9						
				Supports CA Title 24 Compliance to JA8. * Requires Active Cooling and not compatible with IC/Airtight housing. Not compatible with L2 and LP drivers. # Not compatible with LP Driver. +LTT or EldoLED driver selection required and will be supplied with 2 channel version						

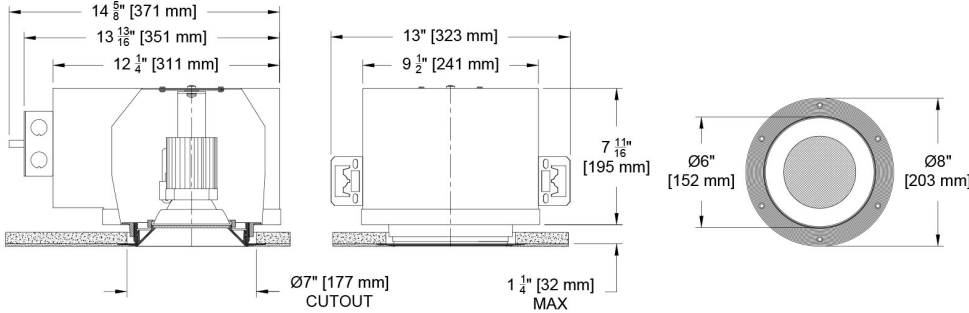
Ceiling Cutouts and Dimensions

Open Regress Shown - Flat similar

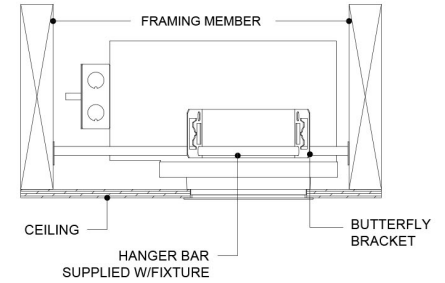
Round Flangeless Housing

Plaster Trim (P/AP)

(CR6D-RF-OR-Z-P/AP)



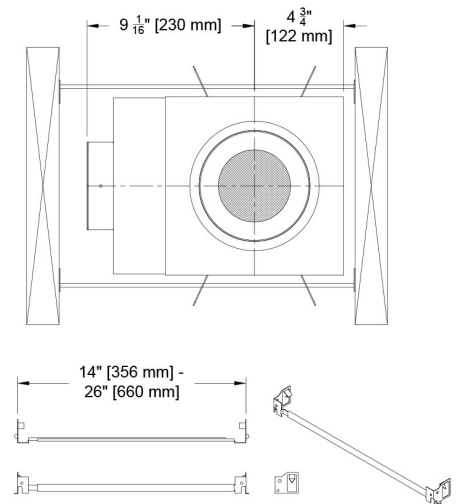
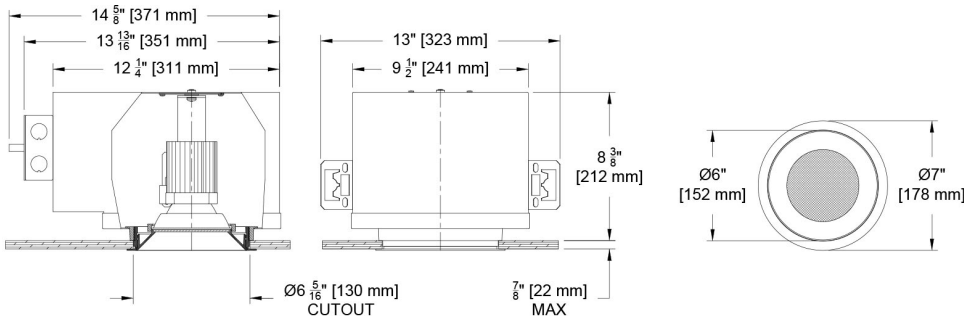
Hanger Bar Detail



Round Flanged Housing

Flanged Mount (U/AU)

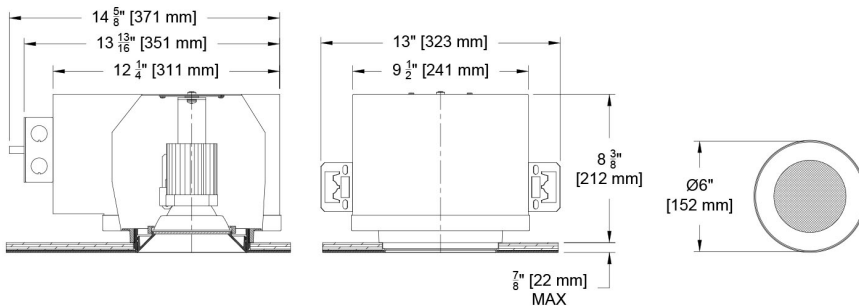
(CR6D-RF-OR-F-U/AU)



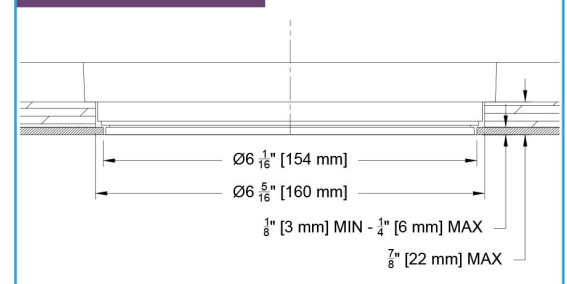
Round Flangeless Housing

Panel Mount (PM/APM)

(CR6D-RF-PM/APM-Z)

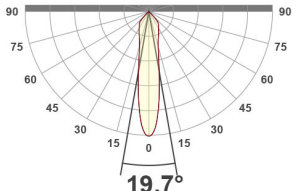
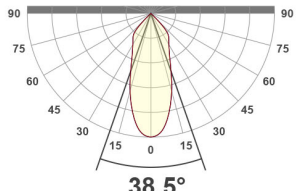
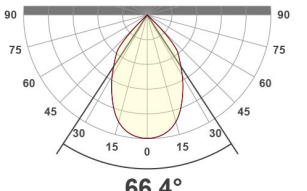


Panel Mount Detail



Photometric Table

All data is delivered lumens based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range. Measurements at 3000 CCT. Ambient Dim measured at full output.

ROUND Beamspreads			20°				38°				65°			
Source		System watts (W)	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
Open Regress	Citizen C11	13	1494	113	3945	84°	1478	112	2183	90°	1459	111	1340	93°
	Citizen C16	19	2126	112	5766	84°	2087	110	3066	90°	2080	109	1916	93°
	Citizen C23	27	2908	106	7845	84°	2874	105	4218	90°	2872	105	2650	93°
	Citizen C34*	38	3777	100	10203	84°	3747	100	5556	90°	3685	98	3395	93°
	Ambient Dim A34*	38	2625	70	6975	84°	2635	70	3739	90°	2633	70	2409	92°
Flat (Pin Hole)	Citizen C11	13	1608	122	4187	85°	1558	118	2220	93°	1558	118	1342	97°
	Citizen C16	19	2235	117	5632	86°	2223	116	3165	93°	2222	116	1918	97°
	Citizen C23	27	3100	113	8072	85°	3098	113	4404	93°	3074	112	2659	97°
	Citizen C34*	38	4008	107	10463	85°	3953	105	5616	93°	3945	105	3409	97°
	Ambient Dim A34*	38	2799	74	7162	85°	2798	74	3758	94°	2798	74	2379	98°
CCT Multiplier			Beam angle				Beam angle				Beam angle			
CCT	Citizen													
2700	0.94													
3000	1.00													
3500	1.02													
4000	1.04													
All measurements based on 3000 CCT. Ambient Dim based on full output.														

* Requires active cooling. ISO CD plot based on Open Regress with C23 source

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

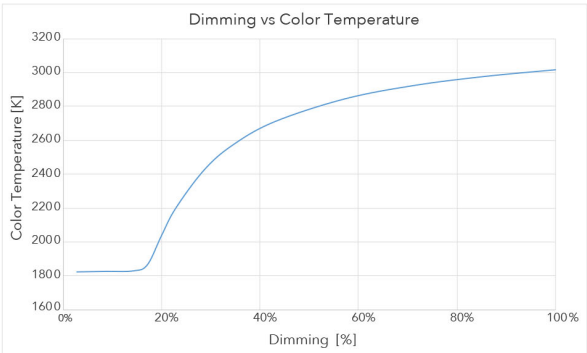
Citizen Sources - C11, C16, C23 and C34

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

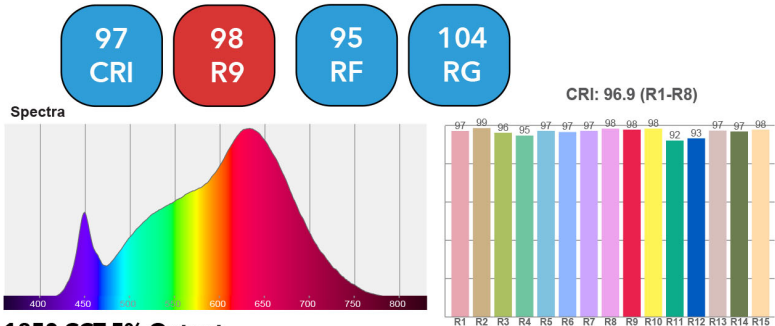


Ambient Dim A34 - 3000k to 1900k

- <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

