**specialty** lighting industries

The Core Family

Welcome to the Core 6" adjustable downlight where up to 3300 lumens are packaged in Specialty Lighting elegance. You will find a rich diversity of technical and aesthetic options: 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.
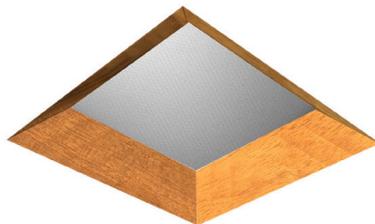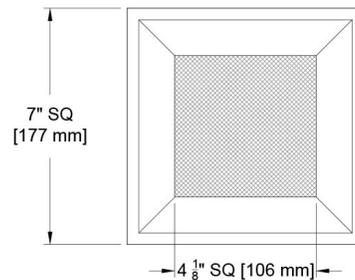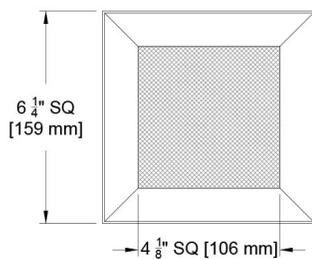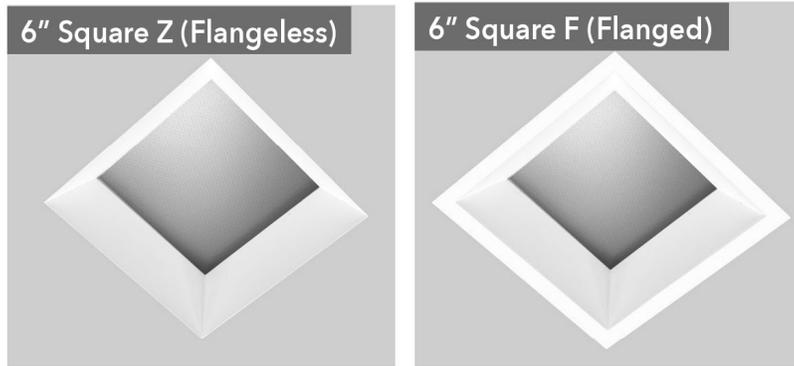
Key Points (CR6D-SA)

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

- 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 3300 delivered lumens

- Adjustable to 35º with 358º of rotation

- 3 beamspreads available- 20º, 26º and 40º

Housing

- TITLE 24 Fixture supports compliance to JA8 requirements with Airtight Housing

- cCSAus 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

- TruPhase™, 0-10, DALI-2, Ecosystem or Wireless Control

- Flicker free to IEEE 1789-2015 available with EldoLED and TruPhase™ selections

- Prewired and integral to housing

- Universal 120-277v

6" Square Z (Flangeless)

6 1/4" SQ [159 mm]

4 1/8" SQ [106 mm]

6" Square F (Flanged)

7" SQ [177 mm]

4 1/8" SQ [106 mm]

Wood Trim Available

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Ordering Codes

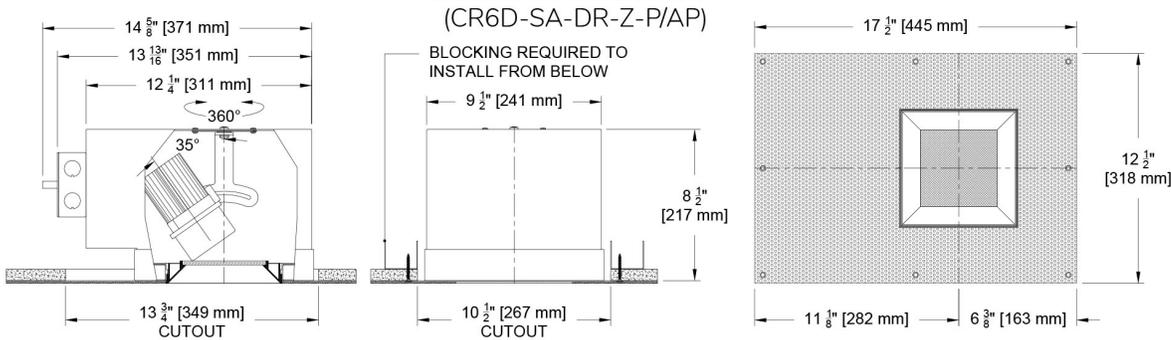PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: CR6D-SA-Z-AP-C23-35-26-E2-P14-91A-CP

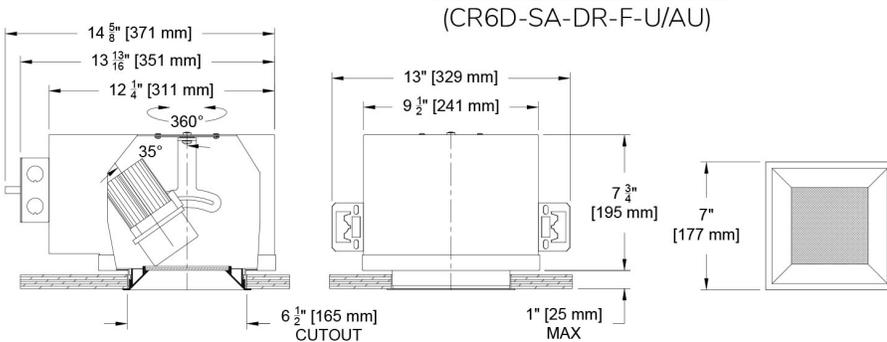| FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR6D-SA										
Core 6" Square Adjustable Downlight	OR Open Regress	**Flanged Trims** F Flanged Trim FS Flanged Shower Trim* *(for mounting choose from Flanged Housings)* **Flangeless 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 **Flangeless Housings** P Plaster - Non-IC Housing AP Airtight Plaster IC-Rated PM Panel Mount APM Airtight Panel Mount IC-Rated ● Supports CA Title24 compliance *Cannot be used with C34 and A34 Source	**Citizen** C11 ●● 13W 1344Lm** 90+CRI, 60+R9 C16 ●● 19W 1905Lm** 90+CRI, 60+R9 C23 ●● 27W # 2655Lm** 90+CRI, 60+R9 C34 38W *# 3354Lm** 90+CRI, 60+R9 **Tunable** T9 90+CRI, 60+R9 *Tunable White* T14 ●● 13W 90+CRI, 70+R9 *Tunable White* T20 ●● 21W 90+CRI, 60+R9 *Tunable White* RGBW 90+CRI, 60+R9 **Ambient Dim™** A14 ●● 15W 95+CRI, 90+R9 A20 ●● 21W 95+CRI, 90+R9 A34 38W *# 2381Lm** 90+CRI, 60+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	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*	20 Spot 26 Narrow Flood 40 Flood	C1 0-10 1.0%, UNV (120-277V) linear C2 ELV/Triac 1.0%, (120-277V) 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 C23, C34 and A34	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/APM mounting - Refer to Wood Trim Guide ** Refer to 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 **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

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Ceiling Cutouts and Dimensions

Square Flangeless Housing — Plaster Trim (P/AP)

(CR6D-SA-DR-Z-P/AP)

14 5/8" [371 mm]
13 13/16" [351 mm]
12 1/4" [311 mm]
360°
35°
13 3/4" [349 mm] CUTOUT

BLOCKING REQUIRED TO INSTALL FROM BELOW
9 1/2" [241 mm]
8 1/2" [217 mm]
10 1/2" [267 mm] CUTOUT

17 1/2" [445 mm]
12 1/2" [318 mm]
11 1/8" [282 mm]
6 3/8" [163 mm]

Square Flanged Housing — Flanged Mount (U/AU)

(CR6D-SA-DR-F-U/AU)

14 5/8" [371 mm]
13 13/16" [351 mm]
12 1/4" [311 mm]
360°
35°
6 1/2" [165 mm] CUTOUT

13" [329 mm]
9 1/2" [241 mm]
7 3/4" [195 mm]
1" [25 mm] MAX

7" [177 mm]
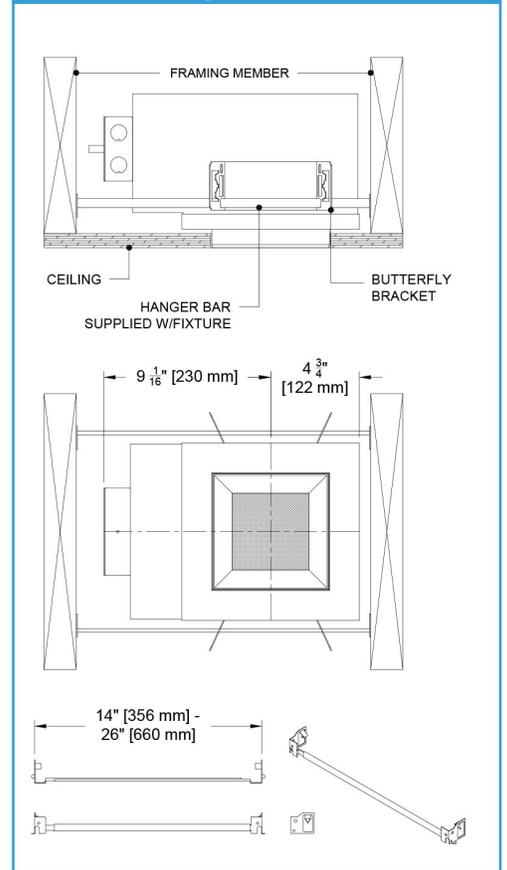
Square Flanged Housing — Flangeless Mount (U/AU)

(CR6D-SA-DR-Z-U/AU)

14 5/8" [371 mm]
13 13/16" [351 mm]
12 1/4" [311 mm]
360°
35°
6 1/2" [165 mm] CUTOUT

13" [329 mm]
9 1/2" [241 mm]
7 3/4" [195 mm]
1" [25 mm] MAX

6 1/4" [159 mm]

NOTE: This option is intended for use with precise and finished cutouts. There is no plaster or finish flange.
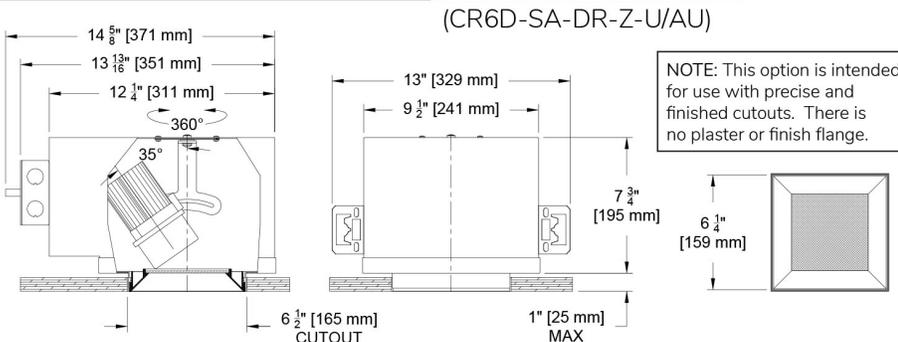
Square Flangeless Housing — Panel Mount (PM/APM)

(CR6D-SA-PM/APM-Z)

14 5/8" [371 mm]
13 13/16" [351 mm]
12 1/4" [311 mm]
360°
35°

13" [329 mm]
9 1/2" [241 mm]
7 3/4" [195 mm]
1" [25 mm] MAX

6 1/4" [159 mm]

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

FRAMING MEMBER
CEILING
HANGER BAR SUPPLIED W/FIXTURE
BUTTERFLY BRACKET

9 1/16" [230 mm]
4 3/4" [122 mm]

14" [356 mm] - 26" [660 mm]

Panel Mount Detail

6 5/16" SQ [160 mm]
6 9/16" SQ [167 mm]
1/8" [3 mm] MAX
7/8" [22 mm] MAX

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Core 6" Square Adjustable Downlight (159mm)
Adjustable Recessed Accent/Downlight

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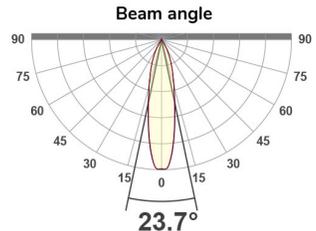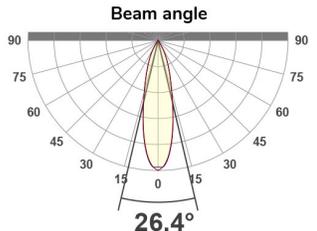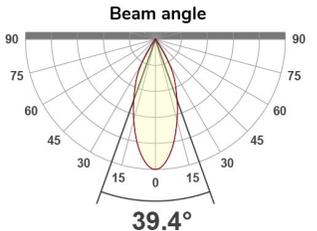
Photometric Table

All data are delivered lumens based on 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.

SQUARE Beamspreads			20°				26°				40°			
	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	1344	102	5304	56°	1347	102	4639	58°	1338	101	2753	68°
	Citizen C16	19	1905	100	7546	56°	1910	101	6777	57°	1900	100	3911	68°
	Citizen C23	27	2655	97	9991	56°	2624	96	9279	57°	2610	95	5379	67°
	Citizen C34*	38	3354	89	13315	56°	3383	90	11884	57°	3314	88	6860	67°
	Ambient Dim A34*	38	2355	63	9375	55°	2381	63	8262	57°	2371	63	4830	68°

CCT Multiplier	
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.

Beam angle

23.7°

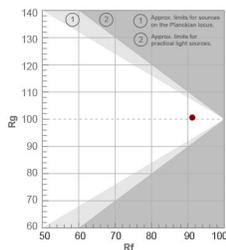**Beam angle**

26.4°

Beam angle

39.4°

* Requires active cooling. ISO CD plot based on Open Regress with A34 source

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Color Data

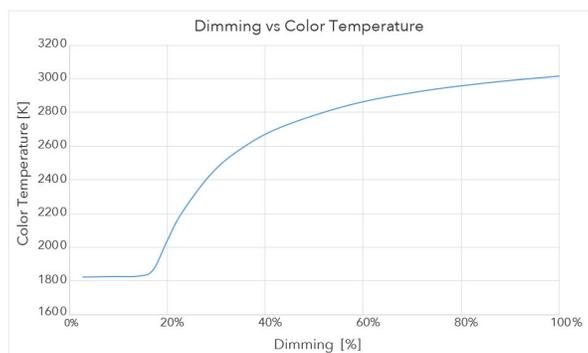All data is based from goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

Citizen Sources - C11, C16, C23 and C34

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

| 94 CRI | 70 R9 |
| 91 RF | 100 RG |

CRI: 93.9 (R1-R8)

TM30: 91.2

Spectra

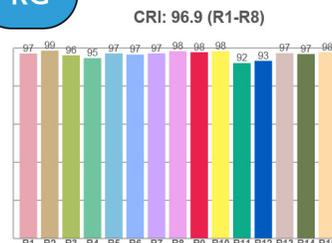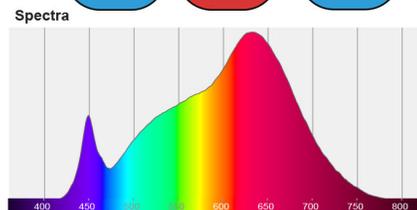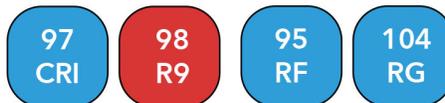

Color distortion graphics
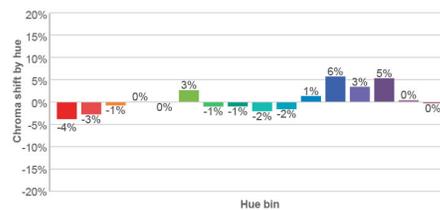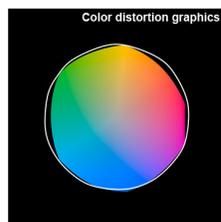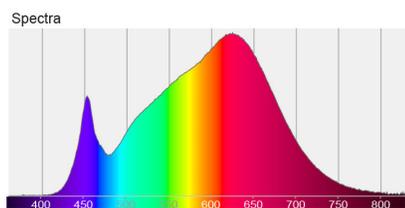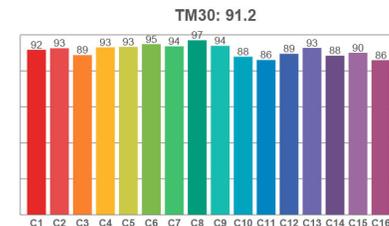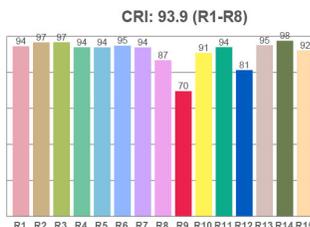
Ambient Dim A34 - 3000k to 1900k

- <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

| 97 CRI | 98 R9 | 95 RF | 104 RG |

Spectra

CRI: 96.9 (R1-R8)

1850 CCT 5% Output

| 93 CRI | 72 R9 | 83 RF | 110 RG |

Spectra

CRI: 92.6 (R1-R8)

Dimming vs Color Temperature

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