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

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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.
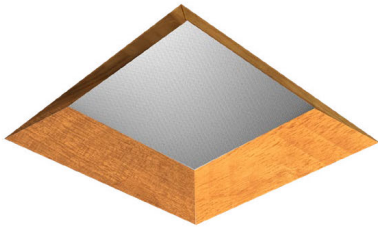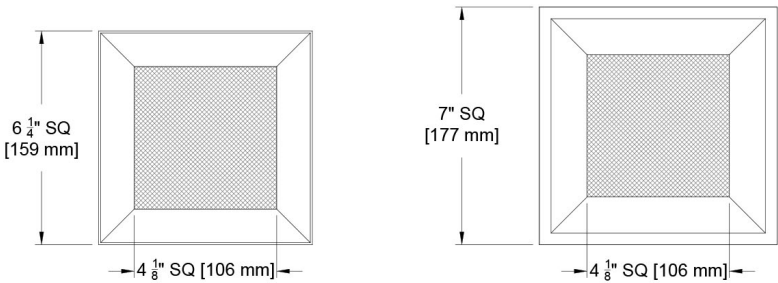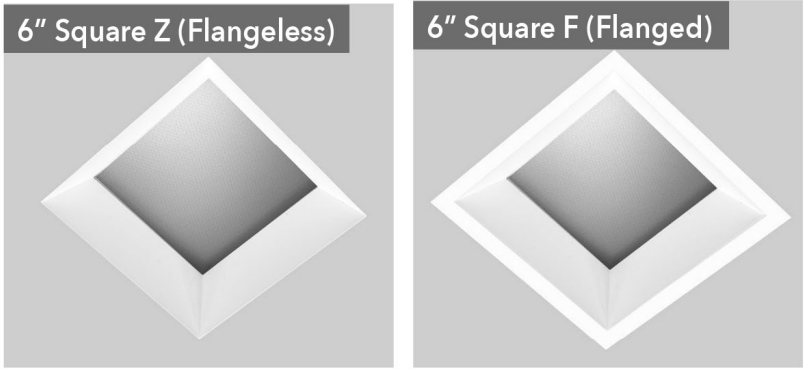
PROJECT: TYPE:

SPECIFIER: DATE:

Key Points (CR6D-SA)

<u>Trim</u>
- 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

<u>Source / Optics</u>
- Lifetime: L87B3>55,000 hours at 40ºC 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 3300 delivered lumens
- Adjustable to 35º with 358º of rotation
- 3 beamspreads available- 20º, 26º and 40º

<u>Housing</u>
- TITLE 24 Fixture supports compliance to requirements with Airtight Housing JA8
- 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

<u>Driver</u>
- Phase, 0-10, DALI, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015 available
- Prewired and integral to housing
- Universal 120-277v

6" Square Z (Flangeless)

6" Square F (Flanged)

6 1/4" SQ [159 mm]

4 1/8" SQ [106 mm]

7" SQ [177 mm]

4 1/8" SQ [106 mm]

Wood Trim Available

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Ordering Codes

PROJECT: SPECIFIER:
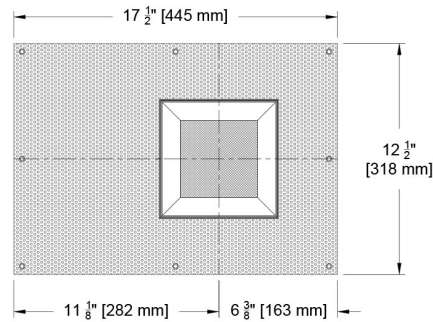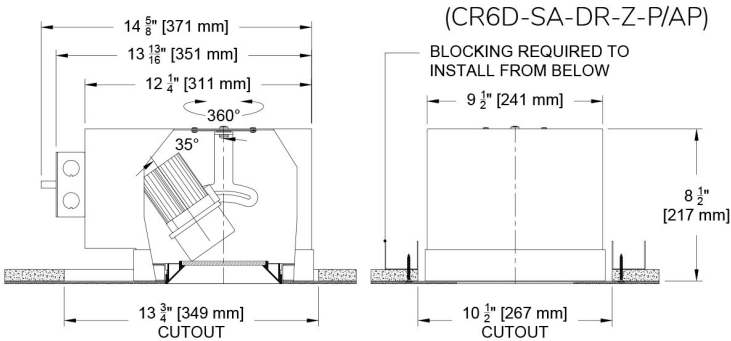
DATE: TYPE: QUANTITY:

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 Universal IC/Airtight* **Flangeless Housings** P Plaster - Non-IC Housing AP Plaster IC/Airtight* PM Panel Mount APM Panel Mount Airtight/IC* ● ● 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* T12 ● ● 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* **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, PEQ0, 20W max * 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 $\frac{5}{8}$" [371 mm]
13 $\frac{13}{16}$" [351 mm]
12 $\frac{1}{4}$" [311 mm]
360°
35°

BLOCKING REQUIRED TO INSTALL FROM BELOW
9 $\frac{1}{2}$" [241 mm]
8 $\frac{1}{2}$" [217 mm]

13 $\frac{3}{4}$" [349 mm] CUTOUT
10 $\frac{1}{2}$" [267 mm] CUTOUT

17 $\frac{1}{2}$" [445 mm]
12 $\frac{1}{2}$" [318 mm]
11 $\frac{1}{8}$" [282 mm]
6 $\frac{3}{8}$" [163 mm]

Square Flanged Housing — Flanged Mount (U/AU)

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

14 $\frac{5}{8}$" [371 mm]
13 $\frac{13}{16}$" [351 mm]
12 $\frac{1}{4}$" [311 mm]
360°
35°

13" [329 mm]
9 $\frac{1}{2}$" [241 mm]
7 $\frac{3}{4}$" [195 mm]
7" [177 mm]

6 $\frac{1}{2}$" [165 mm] CUTOUT
1" [25 mm] MAX
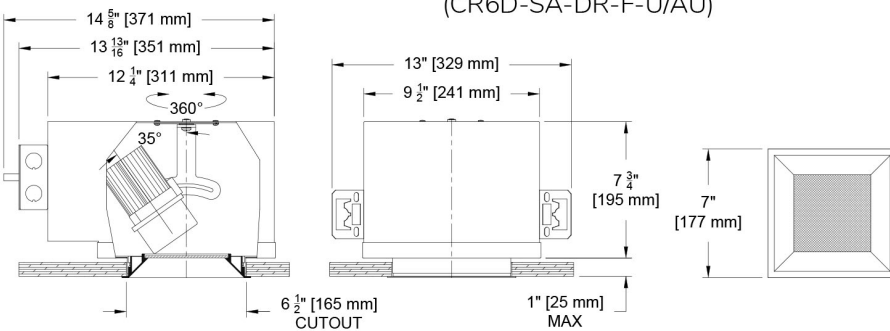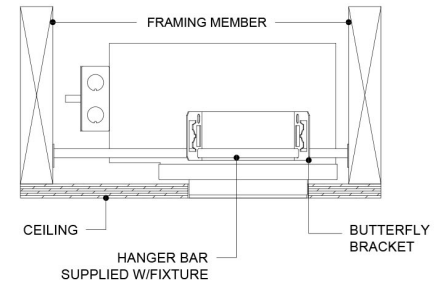
Square Flanged Housing — Flangeless Mount (U/AU)

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

14 $\frac{5}{8}$" [371 mm]
13 $\frac{13}{16}$" [351 mm]
12 $\frac{1}{4}$" [311 mm]
360°
35°

13" [329 mm]
9 $\frac{1}{2}$" [241 mm]
7 $\frac{3}{4}$" [195 mm]
6 $\frac{1}{4}$" [159 mm]

6 $\frac{1}{2}$" [165 mm] CUTOUT
1" [25 mm] MAX

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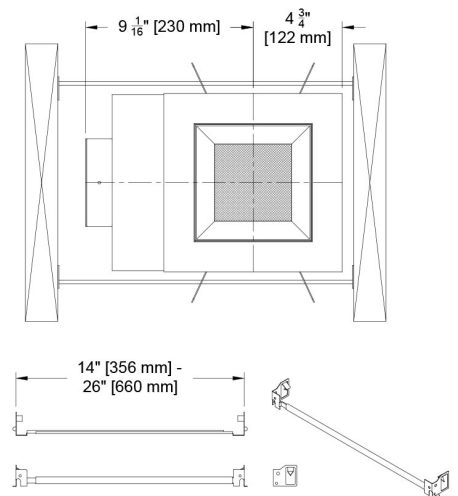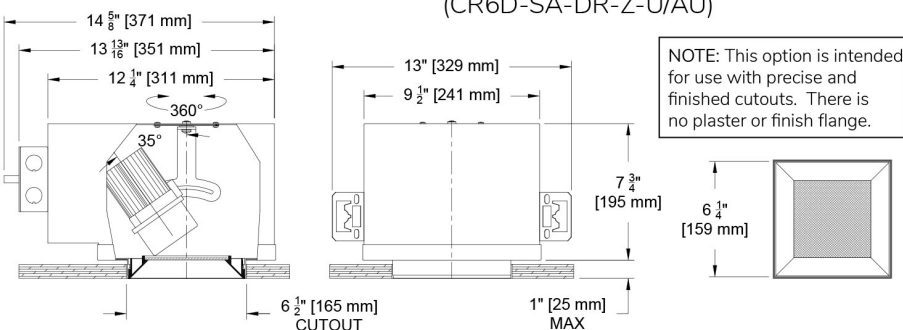
Square Flangeless Housing — Panel Mount (PM/APM)

(CR6D-SA-PM/APM-Z)

14 $\frac{5}{8}$" [371 mm]
13 $\frac{13}{16}$" [351 mm]
12 $\frac{1}{4}$" [311 mm]
360°
35°

13" [329 mm]
9 $\frac{1}{2}$" [241 mm]
7 $\frac{3}{4}$" [195 mm]
6 $\frac{1}{4}$" [159 mm]

1" [25 mm] MAX

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
BUTTERFLY BRACKET
HANGER BAR SUPPLIED W/FIXTURE

9 $\frac{1}{16}$" [230 mm]
4 $\frac{3}{4}$" [122 mm]

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

Panel Mount Detail

6 $\frac{5}{16}$" SQ [160 mm]
6 $\frac{9}{16}$" SQ [167 mm]
$\frac{1}{8}$" [3 mm] MAX
$\frac{7}{8}$" [22 mm] MAX

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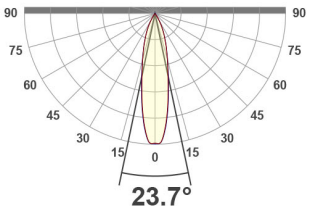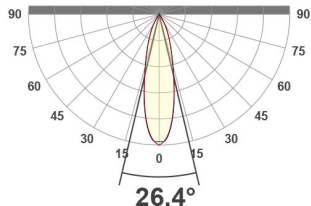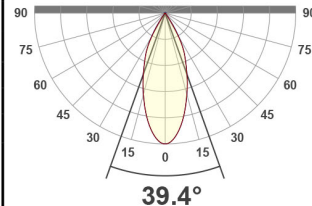Tel. 732.517.0800 | Fax 732.517.0971

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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
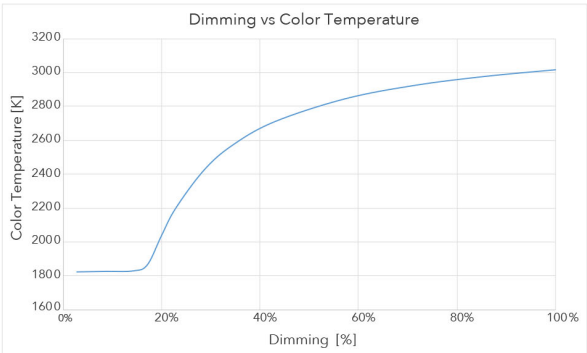
Citizen Sources - C11, C16, C23 and C34

- <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
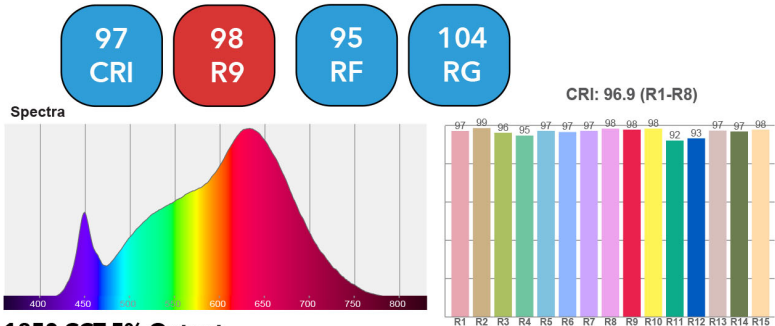

Spectra

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

Dimming vs Color Temperature

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)

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