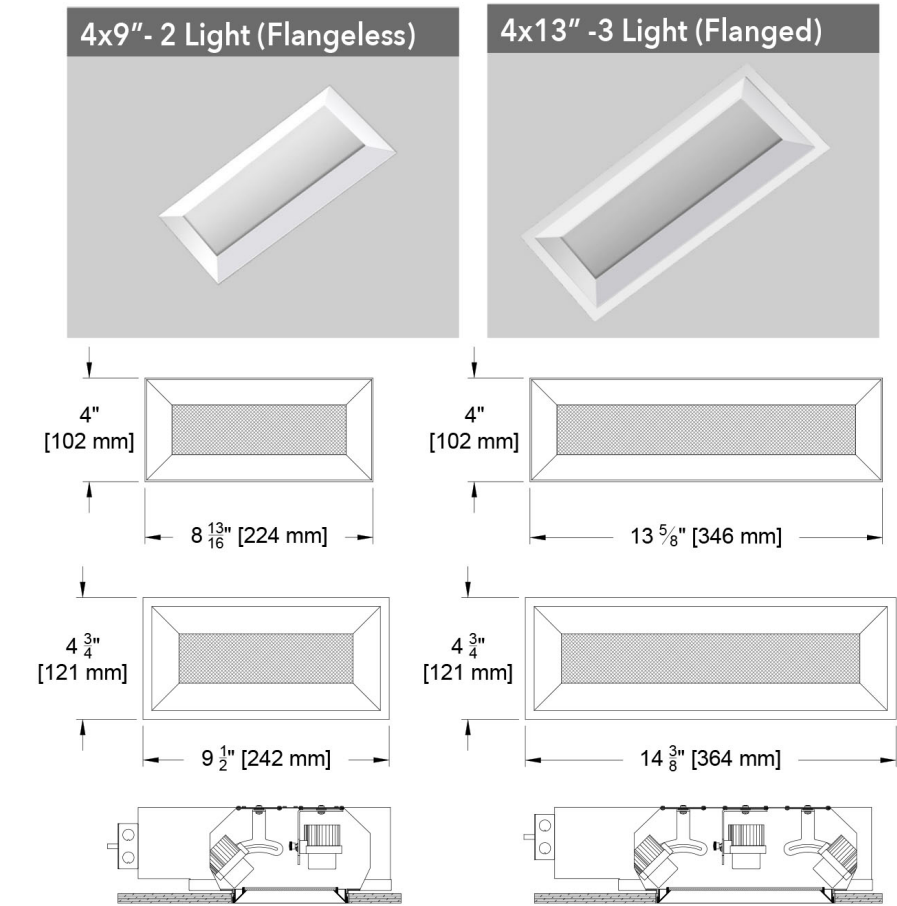


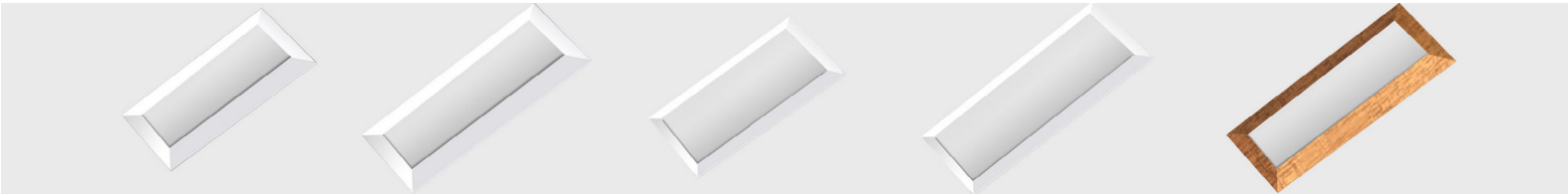
The Core Family

Welcome to the Core line of fixtures. The family is filled with a rich diversity of options while keeping classic forms. This highly modifiable family lineage features multiple heads in a single aperture with a wide selection of options including wood trims and up to 6000 lumens in a 3 head selection.

PROJECT: TYPE:
SPECIFIER: DATE:



Aperture Options



Deep Regress (DR) 2 Heads Formerly known as 1009-2
Deep Regress (DR) 3 Heads Formerly known as 1009-3
Open Regress (OR) 2 Heads Formerly known as 1017-2
Open Regress (OR) 3 Heads Formerly known as 1017-3
Wood Finish (DR) 3 Heads shown (2 Heads Available) Formerly known as 1009-3

Table with 18 columns: Beamspreads, 15°, 24°, 40°, 55°. Each beamspread column contains sub-columns for Source, System watts (W), Delivered Lumens (lm), Lumens/Watt, Peak CD, and 10% Field. Rows include Citizen C14, Citizen C20, Citizen C28*, and Ambient Dim A14.

For Open Regress and all notes please see full photometrics. All data based on single light single aperture fixture (CR4D-SA) Multiply by number of heads for total flux. *C28 source requires active cooling and must be used with NIC (U) housing.

Key Points (CR4MD-TMHA)

- Trim
• Flange of Flangeless
• Flangeless includes mud-in flange with plaster 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
• <2 MacAdam Steps (<2SDCM) for fixed white
• Over 6000 lumens delivered in 3 head open regress fixture with a C28 source selection
• Adjustable to 45° with 358° of rotation
• 4 beamspreads available- 15°, 24°, 40°, and 55°
Housing
• Compliant to with Airtight Housing
• cULus 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™ Dimming to 0.1% available
• Prewired and integral to housing
• Flicker free to IEEE 1789-2015 available with EldoLED and TruPhase™ selections
• TruPhase™, 0-10, DALI-2, Ecosystem or Wireless Control
• Universal 120-277v

Core 4" Rectangular Multiple Adjustable Downlight - 2 & 3 Head

Formerly known as 1009-2, 1009-3, 1017-2, 1017-3
Recessed Adjustable Single Aperture



Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR4MD-TMHA-DR3-F-AU-C20-35-24-E2-3C-P14-97L-CP

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	CIRCUITS	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4MD-TMHA											
Core 4" Rectangular Multiple Adjustable Downlight - 2 and 3 Head	Two Head	F Flanged Trim	U Universal - Non IC	Citizen	27 2700K	15 Spot	C1 0-10 1.0%, UNV (120-277V) linear	1C 1 Circuit	W White Paint	Aperture Lens	EM Emergency Pack
	DR2 2 Head - Deep Regress	Z Flangeless Trim	AU Universal IC/Airtight	C14 15W 1173Lm** 90+CRI, 60+R9	30 3000K	24 Narrow Flood	LD Digital Ecosystem 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1	2C 2 Circuit		91A Solite	CP Chicago Plenum
	OR2 2 Head - Open Regress	FS Flanged Shower Trim*	P Plaster - Non IC	C20 21W 1564Lm** 90+CRI, 60+R9	35 3500K	40 Flood			B Black Paint	92A Supertex (Spreader Lens)	Controls
	Three Head	ZS Flangeless Shower Trim*	AP Plaster IC/Airtight	C28 30W* 2158Lm** 90+CRI, 60+R9	40 4000K	55 Wide Flood	TR2 TruPhase™ 0.1%, (100-277V) Up to 20W Forward and Reverse compatible Phase Dimming 2 Dimming Curves: Linear/Logarithmic Static White & Ambient Dim only		D Wood*	93A Frosted	LR Lutron Wireless RF PowPak
	DR3 3 Head - Deep Regress	* Aperture Lens Required	PM Panel Mount - Non IC	Ambient Dim™	AD 1900-3000K				PXX Specialty Paint Color*	XXA Other Aperture Lens Treatments*	ATH Lutron Athena Wireless Node <i>Must be used with E2 driver</i>
	OR3 3 Head - Open Regress		APM Panel Mount Airtight/IC	A14 15W 810Lm 95+CRI, 90+R9 3000 to 1900K			C2 ELV/Triac 1.0%, (120V) linear		P01-P15	Reflector (lamp) Media	CA Casambi Wireless BLE to be paired with driver
	Note: Photometrics for single head only		California Title 24 Compliant	Ink™			EldoLED		C Custom/RAL Color**	91L Solite	
				Tunable White 90+CRI, 70+R9 1800-4000K or 2700-6500K^			E1 0-10 0.1%, UNV (120-277V) log			97L Black Hexcel Louver	
				RGBW 90+CRI, 60+R9 ^			E2 DALI-2 0.1%, UNV (120-277V) log		* Wood "D" selection to be used with Z trim and PM mounting - Refer to Wood Trim Guide ** Refer to Finish Guide	XXL Other reflector (lamp) media*	1 piece of media per opening (aperture or reflector) can be selected *Refer to Lens Guide
				* Requires Active Cooling and not compatible with IC/Airtight housing. Not compatible with L2 and LP drivers.			E3 0-10 0.1%, UNV (120-277V) linear				
				** Based on Open Regress 15° beam, single head			* Not compatible with C28				
				^ Available upon request. Contact your regional sales manager							

Core 4" Rectangular Multiple Adjustable Downlight - 2 & 3 Head

Formerly known as 1009-2, 1009-3, 1017-2, 1017-3

Recessed Adjustable Single Aperture

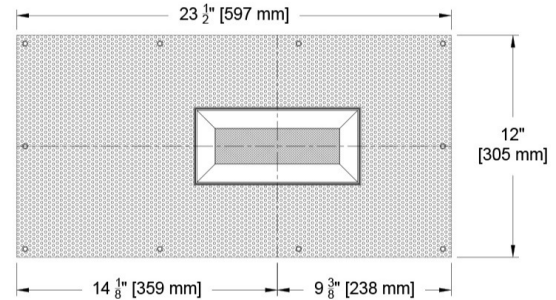
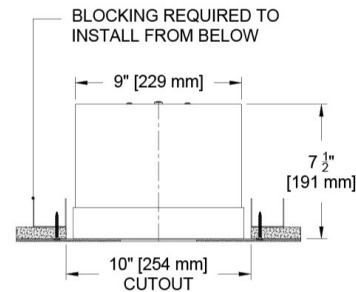
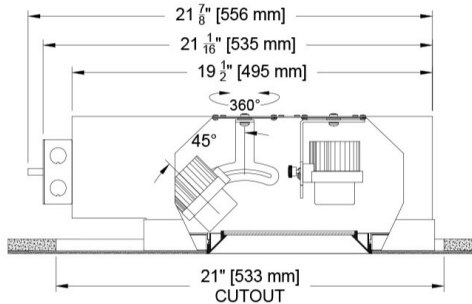
Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

2 Head Flangeless Housing

Plaster Mount (P/AP)

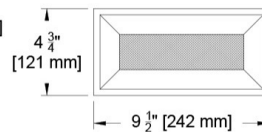
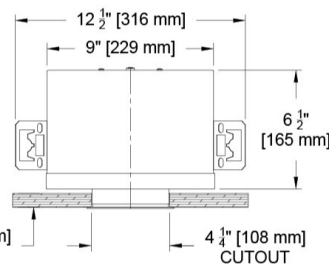
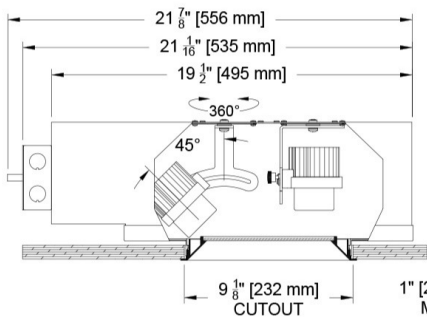
(CR4MD-TMHA-DR2-Z-P/AP)



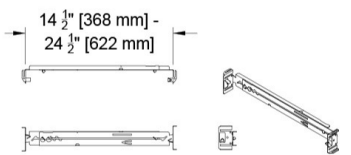
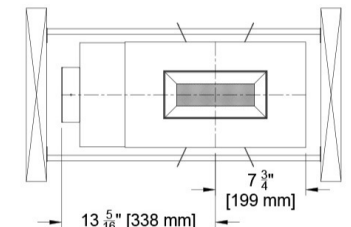
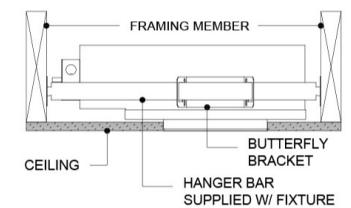
2 Head Flanged Housing

Flanged Mount (U/AU)

(CR4MD-TMHA-DR2-Z-F-U/AU)



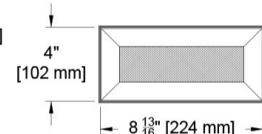
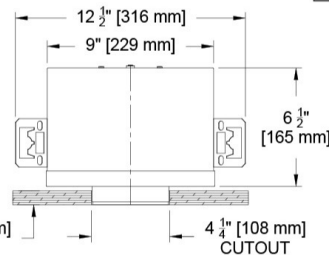
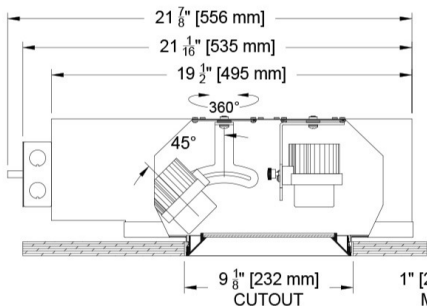
Hanger Bar Detail



2 Head Flangeless Housing

Flangeless Mount (U/AU)

(CR4MD-TMHA-DR2-Z-U/AU)

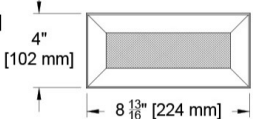
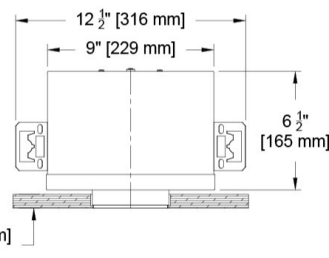
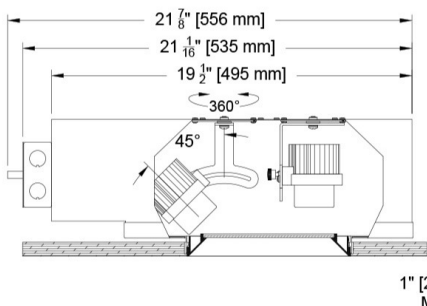


NOTE: This option is intended for use with precise and finished cutouts. There is no plaster or finish flange.

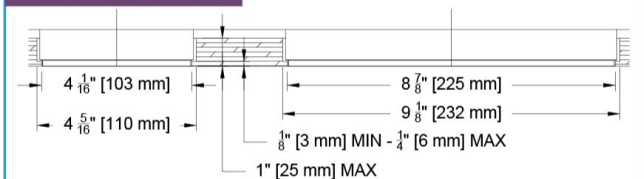
2 Head Flangeless Housing

Panel Mount (PM/APM)

CR4MD-TMHA-DR2-Z-PM/APM)



Panel Mount Detail



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

Core 4" Rectangular Multiple Adjustable Downlight - 2 & 3 Head

Formerly known as 1009-2, 1009-3, 1017-2, 1017-3

Recessed Adjustable Single Aperture

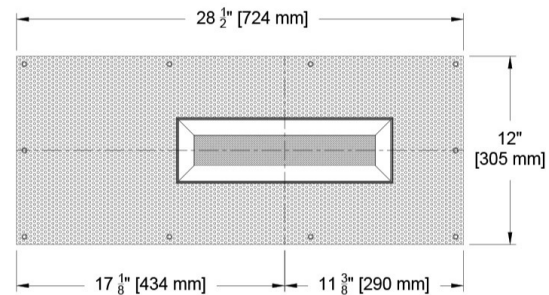
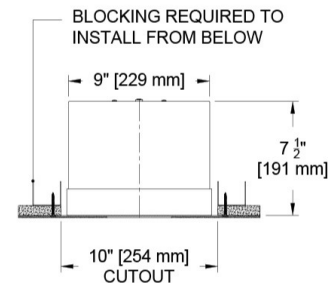
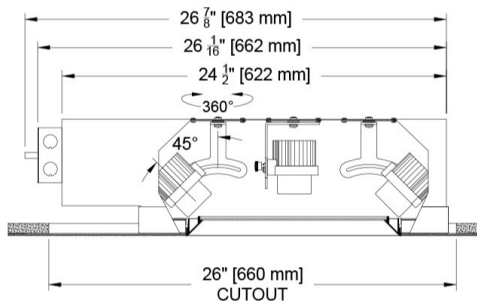
Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

3 Head Flangeless Housing

Plaster Mount (P/AP)

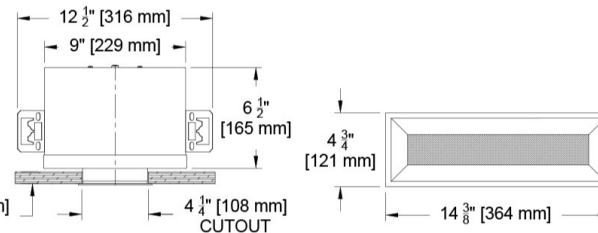
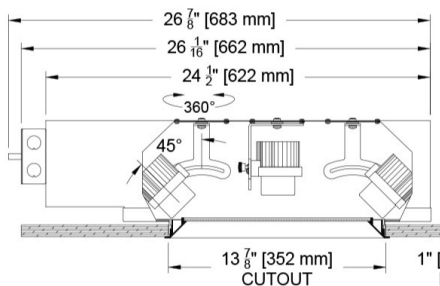
(CR4MD-TMHA-DR3-Z-P/AP)



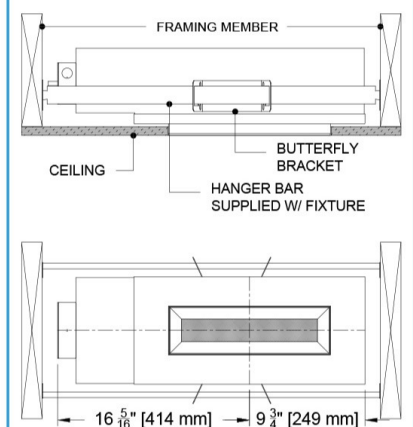
3 Head Flanged Housing

Flanged Mount (U/AU)

(CR4MD-TMHA-DR3-F-U/AU)



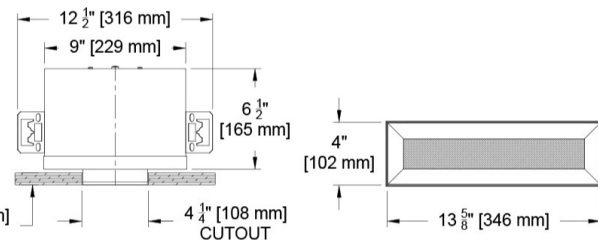
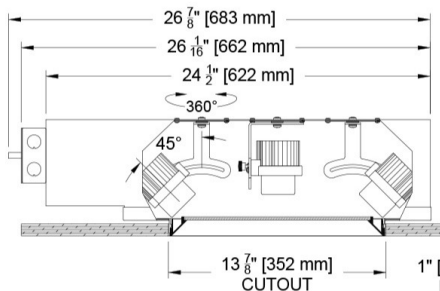
Hanger Bar Detail



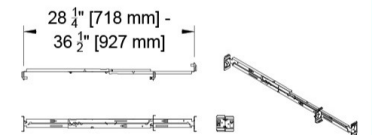
3 Head Flangeless Housing

Flangeless Mount (U/AU)

(CR4MD-TMHA-DR3-Z-U/AU)



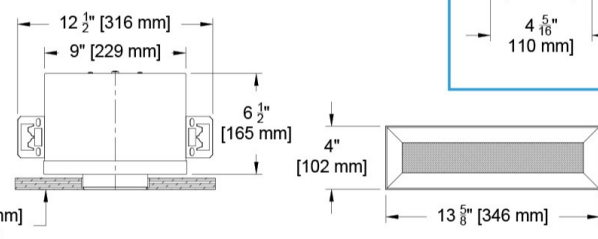
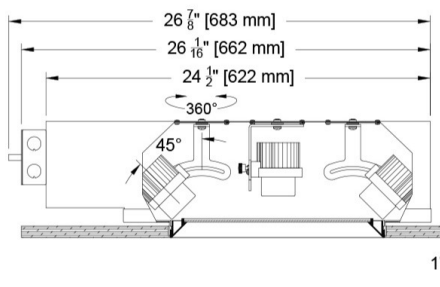
NOTE: This option is intended for use with precise and finished cutouts. There is no plaster or finish flange.



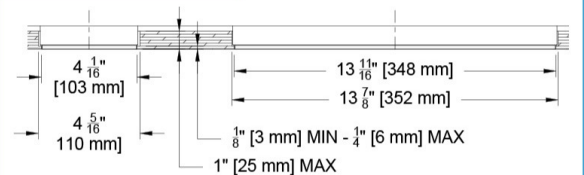
3 Head Flangeless Housing

Panel Mount (PM/APM)

(CR4MD-TMHA-DR3-Z-PM/APM)



Panel Mount Detail



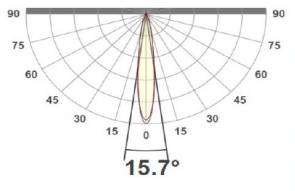
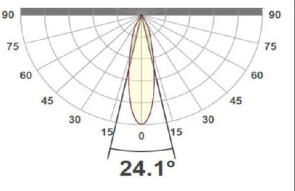
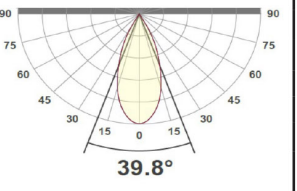
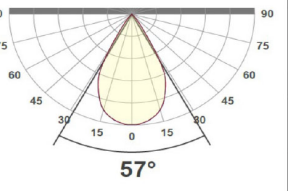
NOTE: This option is intended for use with precise and finished cutouts - usually millwork or wood ceilings. There is no plaster or finish flange.

Core 4" Rectangular Multiple Adjustable Downlight - 2 & 3 Head

Formerly known as 1009-2, 1009-3, 1017-2, 1017-3
Recessed Adjustable Single Aperture



Photometric Table All data is based on goniometer measurements of production representative product for a single head. Multiple heads will deliver additional light and will need to be accounted for individually in calculations. All lumen values can vary +/- 10% from LED manufacturer rated flux range. Measurements at 3000 CCT.

SQUARE Beamsreads		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°			
CCT Multiplier																					
CCT	Citizen																				
2700	0.95																				
3000	1.00																				
3500	1.02																				
4000	1.03																				
All measurements based on 3000 CCT.																					
																					

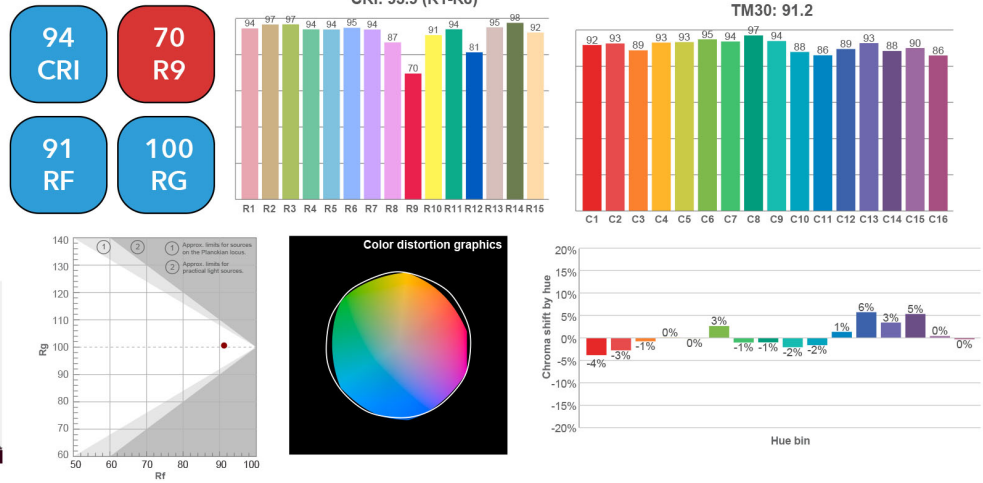
All Measurements delivered or derived delivered lumens based on a single head in the CR4D-SA at 3000K. Values are based on a single head aimed at 0° in the Core 4" square down light (CR4D-SA). Multiple heads will deliver additional light and will need to be accounted for individually in calculations. 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.

Color Data

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

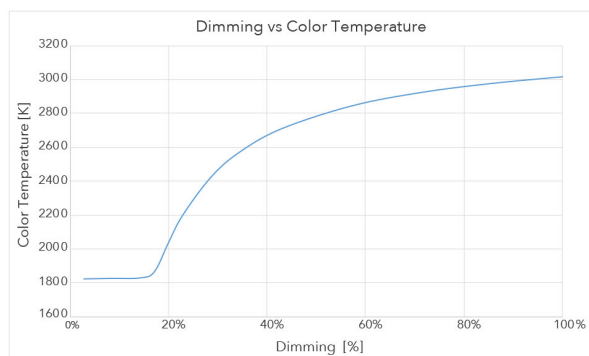
Citizen Sources for C14, 20 and C28

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

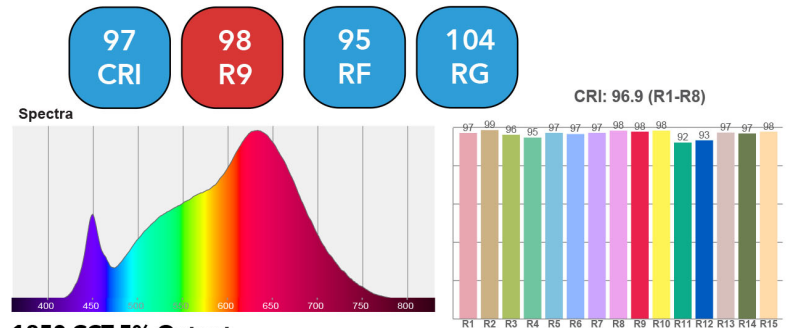


Ambient Dim 3000k to 1900k

- <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

