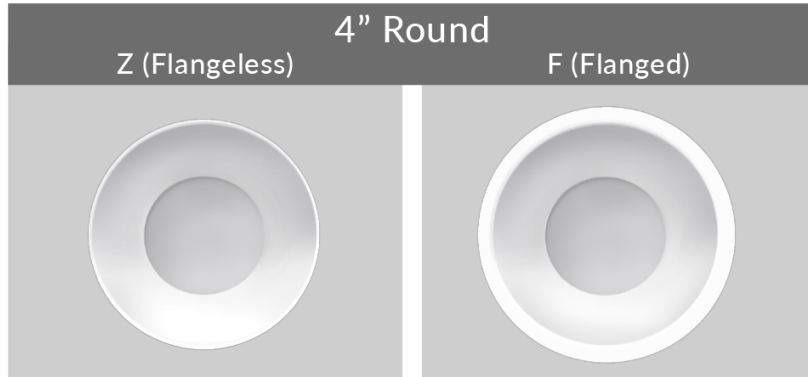
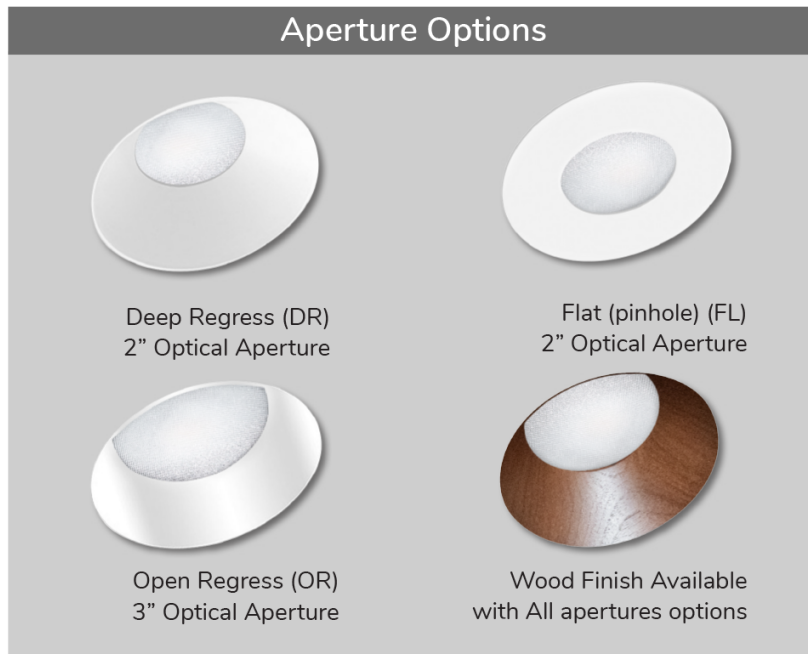
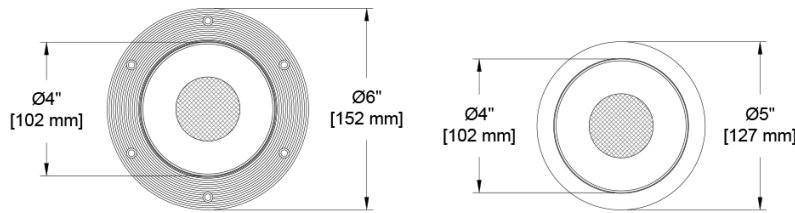


The Core Family

The Core family line offers a rich diversity of technical and aesthetic options. Our 4" round adjustable offers 14+ finishes & custom wood choices. A wide range of source/optic selections, 3 ranges of Ambient Dim™ (Warm Dim), 4beam spreads, and a plethora of driver/control options including TruPhase™ (phase dimming down to 0.1%). Our Core product family is created on platform allowing for a high degree of modification



Deep Regress shown



PROJECT:

TYPE:

SPECIFIER:

DATE:

Key Points (CR4D-RA)

Trim

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

Source / Optics

- 2400K, 2700K, 3000K, 3500K, 4000K
- **AmbientDim™**, RGBW, & Tunable White options
- 90 CRI, 55+ R9 Standard | 95 CRI 90+ R9 Optional
- Up to 2177 delivered lumens
- 4 beams spreads available - 15°, 24°, 40°, and 55°

Housing

- Heavy gauge steel for new construction or remodel
- **ETL** 24 Compliant to **JAB** 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
- Airtight Shallow Housing available

Driver

- **TruPhase™** - Dimming down to 0.1% - 120V only
- 0-10, DALI-2, DMX, Lutron or Casambi
- Flicker Free to IEEE 1789-2015
- Prewired and integral housing
- Universal 120-277v available

Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR4D-RA-DR-Z-AU-C20-35-24-E2-P14-92A-91L-97L-CP

FIXTURE	APERTURE	TRIM	MOUNTING	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4D-RA										
Core 4" Round Adjustable Downlight	DR Deep Regress OR Open Regress FL Flat (Pin Hole)	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 Shallow Housing ASU Airtight Shallow Universal IC-Rated ASP Airtight Shallow Plaster IC-Rated ASPM Airtight Shallow Panel IC-Rated ●●● Supports CA Title 24 compliance * Not compatible with C28	C14 ●●● 15W 1149Lm 90+CRI, 60+R9 C20 ●●● 21W 1422Lm** 90+CRI, 60+R9 C28* 30W** 2006Lm** 90+CRI, 60+R9 Tunable T9 ●●● 10W 645Lm 87+CRI, 60+R9 Tunable White T15 ●●● 15W 975Lm 90+CRI, 60+R9 Tunable White T20 ●●● 21W 90+CRI, 60+R9 Tunable White RGBW 95+CRI, 90+R9 Ambient Dim™ A14 ●●● 15W 882Lm 95+CRI, 90+R9 A20 ●●● 1522Lm 95+CRI, 90+R9 ●●● Supports CA Title 24 Compliance to JA8 except in flat aperture ** Based on Deep Regress 24" beam View Photometry Table	24 2400K 27 2700K 30 3000K 35 3500K 40 4000K 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	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 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 TR2 TruPhase™ 0.1%, (120-120V) log Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only LD Digital Ecosystem* 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1 * Not compatible with C28	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 - 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	EM Emergency Pack* *Remote Required 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

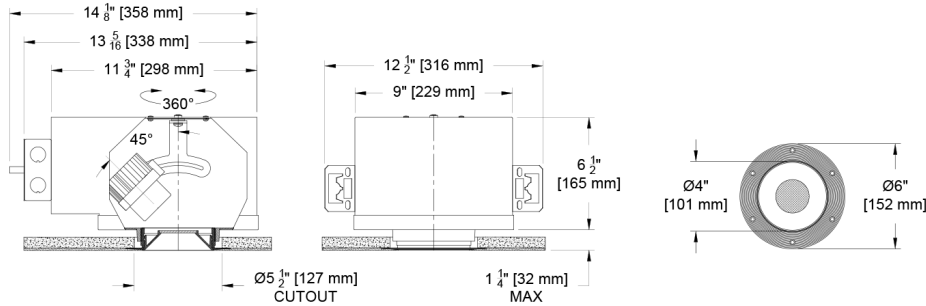
Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

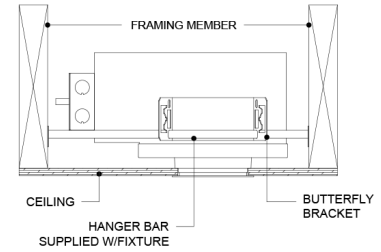
Round Flangeless Housing

Plaster Trim (P/AP)

CR4D-RA-DR-Z-P/AP-



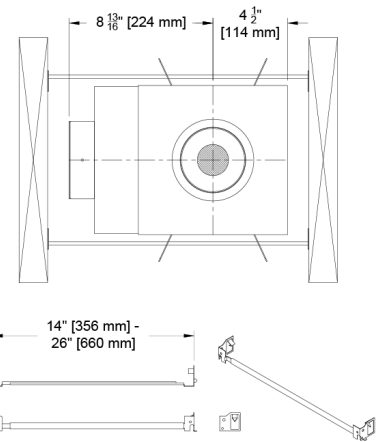
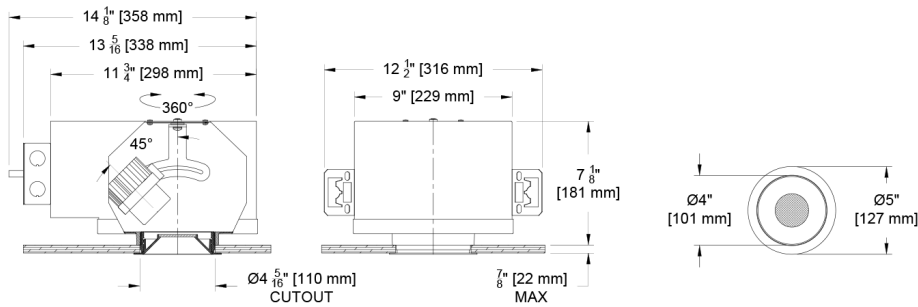
Hanger Bar Detail



Round Flanged Housing

Universal Mount (U/AU)

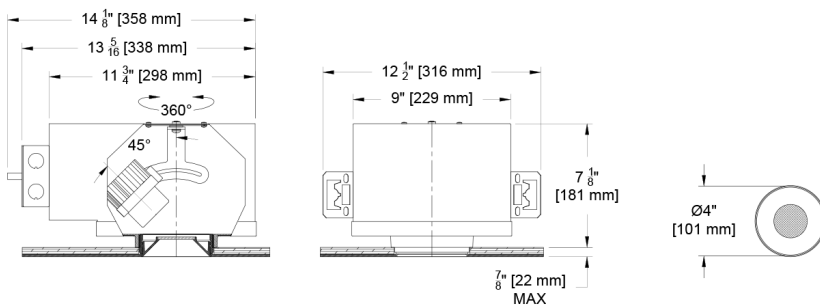
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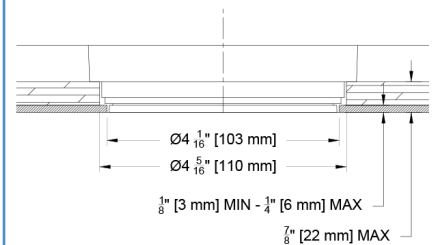
Round Flangeless Housing

Panel Mount (PM/APM)

CR4D-RA-DR-Z-PM/APM-



Panel Mount Detail



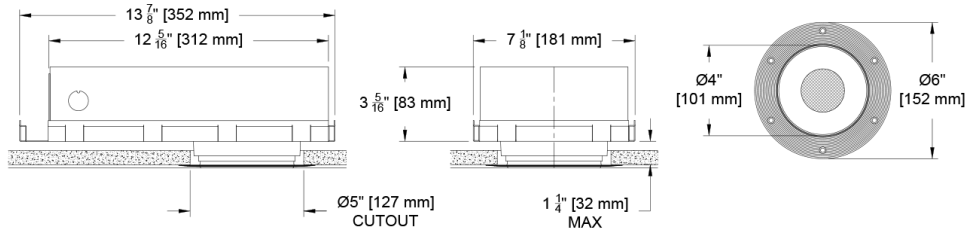
Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

Round Flangeless Housing

Airtight Shallow Plaster (ASP)

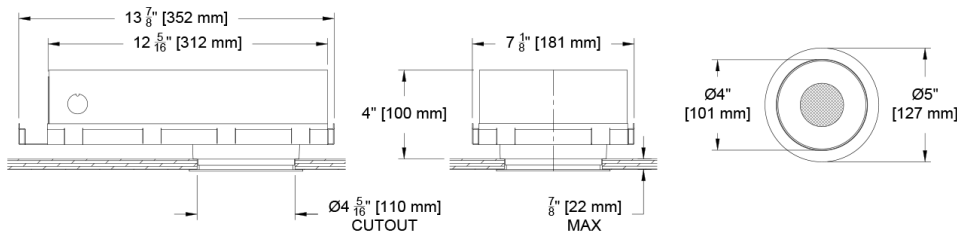
CR4D-RA-DR-Z-ASP-



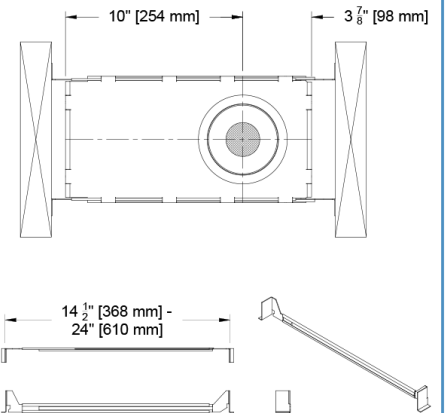
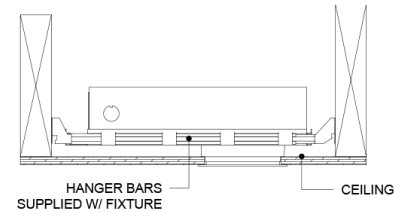
Round Flanged Housing

Airtight Shallow Universal (ASU)

CR4D-RA-DR-F-ASU-



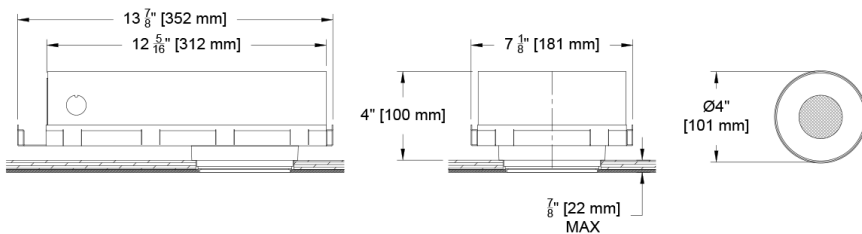
Hanger Bar Detail



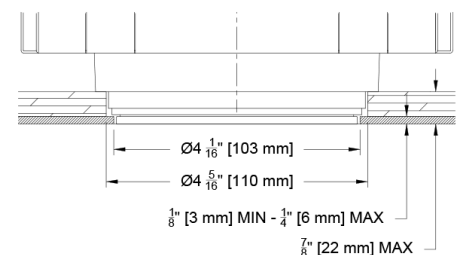
Round Flangeless Housing

Airtight Shallow Panel (ASPM)

CR4D-RA-Z-ASPM-



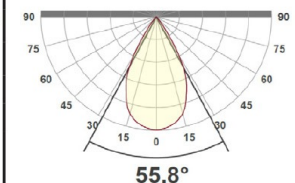
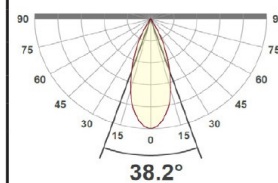
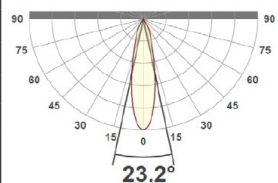
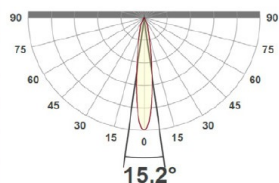
Panel Mount Detail



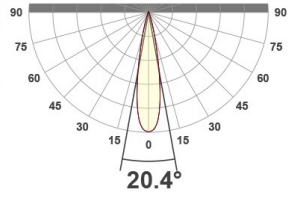
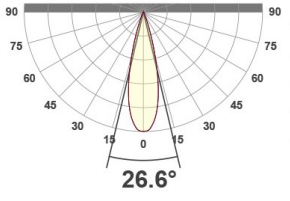
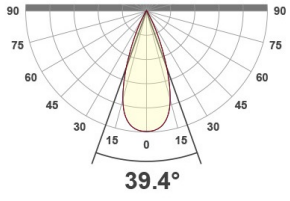
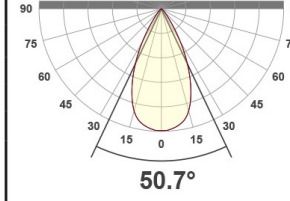
Shallow Housing Photometric Table

All data below is based from goniometer measurement of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated nominal flux.

ROUND Beamspreads		15°					24°				40°				55°			
Source		System watts (W)	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field
Deep Regress	Citizen C14	15	1149	77	7832	42°	1074	72	4247	46°	1117	74	2867	51°	1098	73	1416	71°
	Citizen C20	21	1609	71	12541	33°	1457	64	8949	38°	1565	69	4239	58°	1093	48	1691	77°
	Citizen C28	30	2046	68	16106	41°	2006	67	9871	47°	2069	69	5688	54°	2020	67	3155	69°
	Tunable White T9	10	630	65	4192	37°	626	65	3047	43°	645	66	1835	54°	498	51	727	78°
	Tunable White T15	14	957	69	6214	37°	959	69	4671	43°	975	70	2847	54°	752	54	1106	78°
	Tunable White T20	20	1372	68	8908	37°												
	Ambient Dim A14	15	882	59	7188	38°	858	57	4167	44°	801	53	2027	57°	844	56	1286	70°
	Ambient Dim A20	22	-	-	-	-	1522	69	6304	52°								
Open Regress	Citizen C14	15	1267	84	7877	42°	1179	79	4203	52°	1183	79	2421	66°	1199	80	1533	75°
	Citizen C20	21	1689	80	12229	41°	1571	75	6562	57°	1578	75	3459	63°	1536	73	1965	76°
	Citizen C28	30	2331	78	16883	44°	2169	72	9060	55°	2177	73	5140	67°	2163	72	2939	75°
	Tunable White T9	10	783	80	4275	42°	764	78	3041	47°	760	77	1878	59°	610	62	744	81°
	Tunable White 15	16	1335	80	7145	42°	1310	78	5213	49°	1298	77	3216	59°	1052	62	1283	81°
	Tunable White T20																	
	Ambient Dim A14	15	861	57	6189	39°	801	53	4708	53°	991	66	2238	60°	773	52	1080	72°
	Ambient Dim A20																	
Flat (Pin Hole)	Citizen C14	15	824	55	7851	37°	716	48	4844	46°	700	52	2399	51°	623	42	1370	64°
	Citizen C20	21	1099	52	11216	35°	967	46	6544	42°	933	44	3732	49°	830	40	1957	62°
	Citizen C28	30	1517	51	16982	32°	1334	44	8389	44°	1288	43	5154	53°	1145	38	2926	59°
	Tunable White T9	10	504	51	52	32°	449	46	2726	38°	544	55	1832	50°	334	34	726	62°
	Tunable White T15	16	874	52	7256	33°	784	48	4755	38°	947	57	3184	50°	582	35	1259	62°
	Tunable White T20																	
	Ambient Dim A14	15	747	50	7305	36°	702	47	4077	42°	678	45	2247	50°	622	41	1076	63°
	Ambient Dim A20																	
CCT Multiplier																		
CCT	Citizen																	
2700	0.95																	
3000	1.00																	
3500	1.02																	
4000	1.03																	
All measurements based on 3000 CCT. Ambient Dim based on full output.																		



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

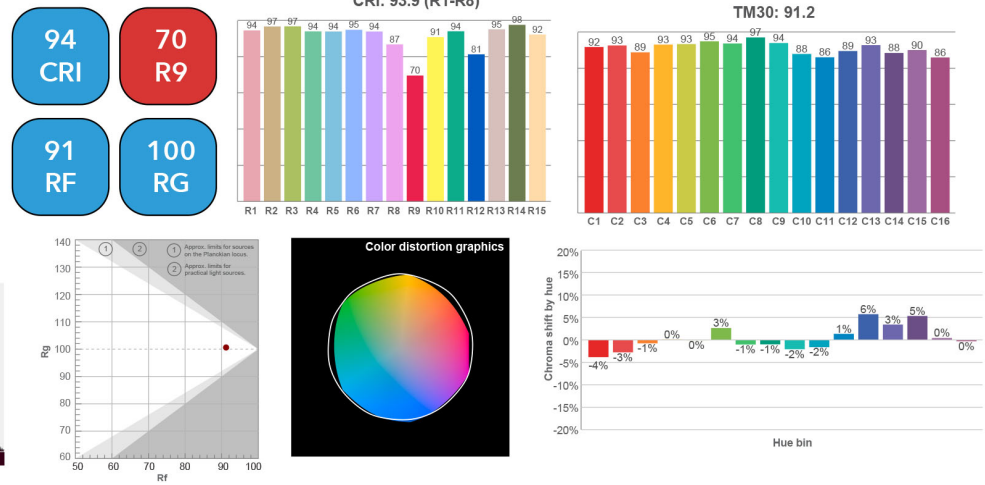
ROUND Beamspreads			15°				24°				40°				55°						
Source		System watts (W)	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del.Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field			
Deep Regress	Citizen C14	15	1470	99	9722	36°	1598	108	7339	42°	1658	112	3857	58°	1518	102	2170	74°			
	Citizen C20						2185	102	10054	42°											
Open Regress	Citizen C14	15	1548	104	9734	36°	1639	111	7306	42°	1688	114	3870	58°	1586	107	2203	76°			
	Citizen C20						2234	104	10205	42°											
Flat (Pin Hole)	Citizen C14	15	1271	86	9583	34°	1446	98	7379	40°	1552	105	3848	56°	1366	92	2167	71°			
	Citizen C20						1983	92	10151	40°											
CCT Multiplier																					
CCT	Citizen																				
2700	0.95																				
3000	1.00																				
3500	1.02																				
4000	1.03																				
All measurements based on 3000 CCT. Ambient Dim based on full output.																					
																					

Color Data

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

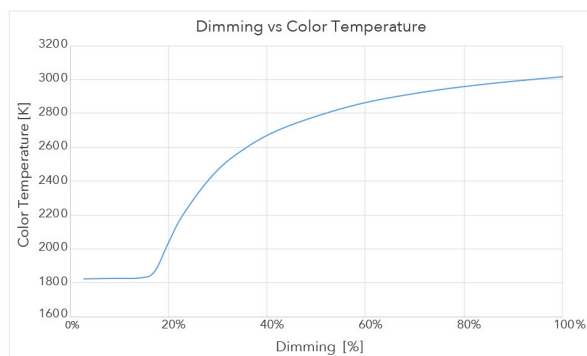
Citizen Sources - C14, C20 and C28

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

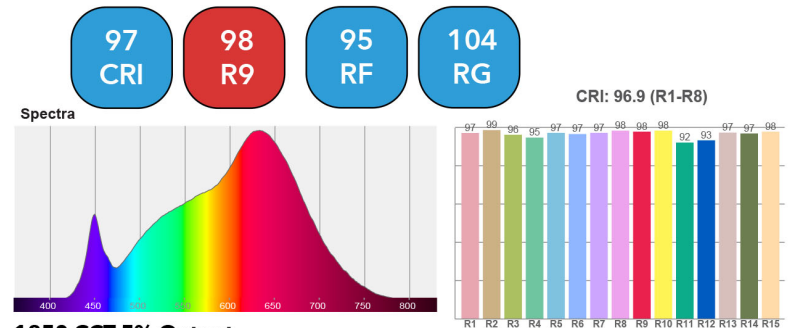


Ambient Dim - 3000k to 1900k

- <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

