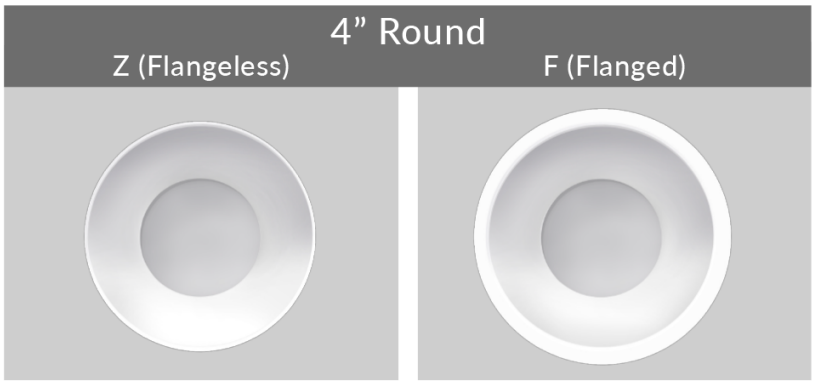
Core 4" Round Adjustable Downlight (102mm)

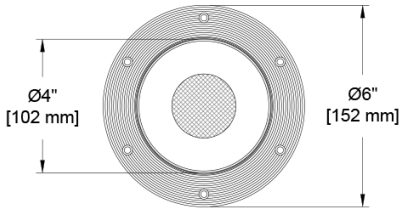
Adjustable Recessed Accent/Downlight

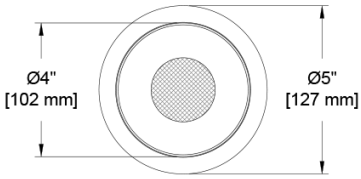
The Core Family

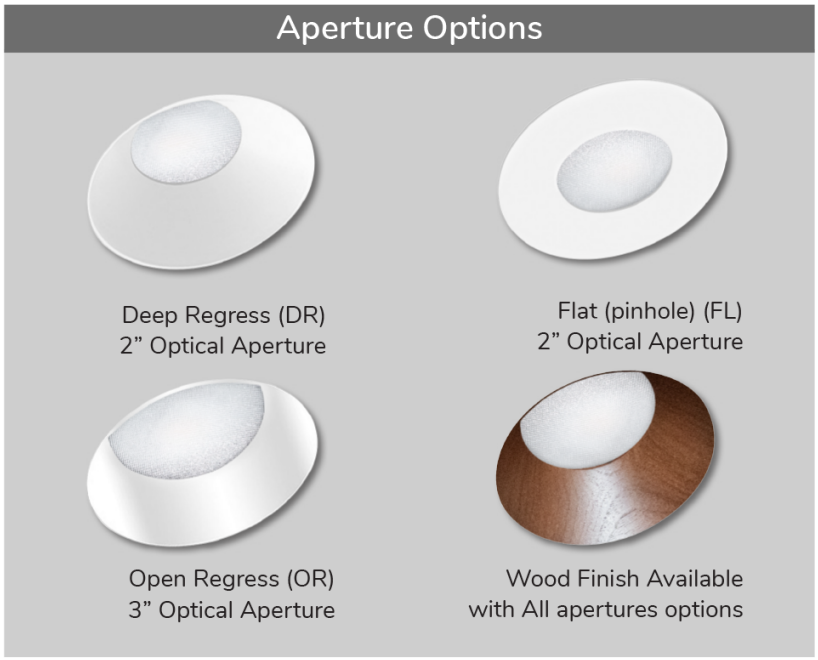
The Core family line offers a rich diversity of technical and aesthetic options. Our 4" round adjustable offers 14+ finishes & custom wood choices. A wide range of source/optic selections, 3 ranges of Ambient Dim™ (Warm Dim), 4beam spreads , and a plethora of driver/control options including TruPhase™ (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

- Adjusts to 45° tilt with 360° rotation
- Heavy gauge steel for new construction or remodel
- TITLE 24 Compliant to JA8 with Airtight Housing
- c SP us 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

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Core 4" Round Adjustable Downlight (102mm)

Adjustable Recessed Accent/Downlight

specialty lighting industries

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	LUMENS / 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 Title24 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 20W 2092Lm 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 BABA BABA Products CA Casambi Wireless BLE to be paired with driver **Controls** LR Lutron Wireless RF PowPak ATH Lutron Athena Wireless Node *Must be used with E2 driver*

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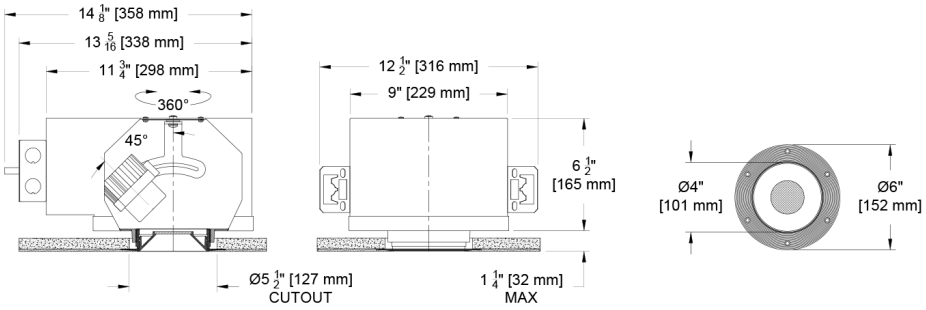
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Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

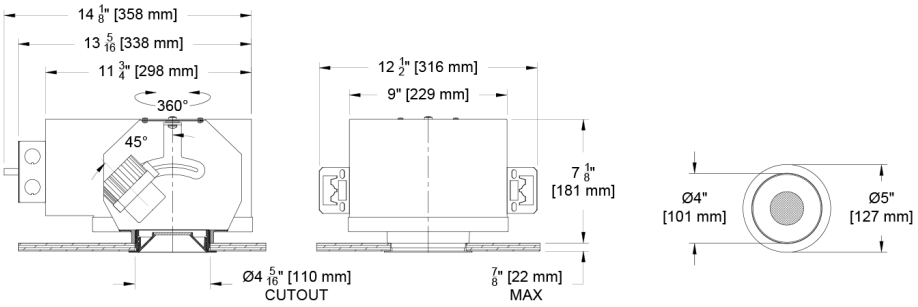
Round Flangeless Housing — Plaster Trim (P/AP)

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



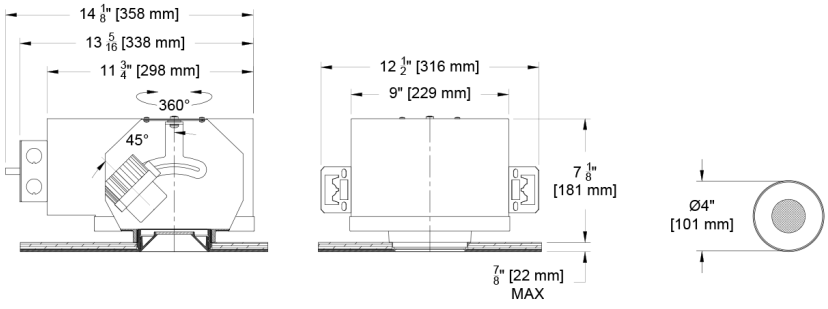
Round Flanged Housing — Universal Mount (U/AU)

CR4D-RA-DR-F-U/AU-

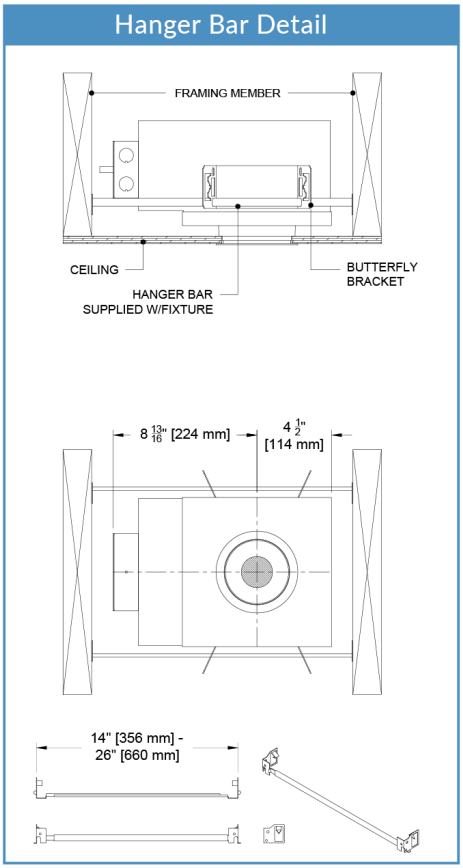


Round Flangeless Housing — Panel Mount (PM/APM)

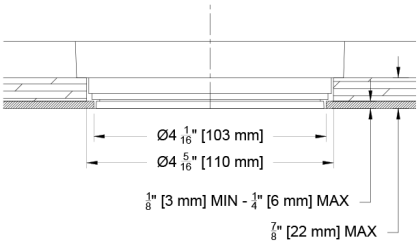
CR4D-RA-DR-Z-PM/APM-



Hanger Bar Detail



Panel Mount Detail



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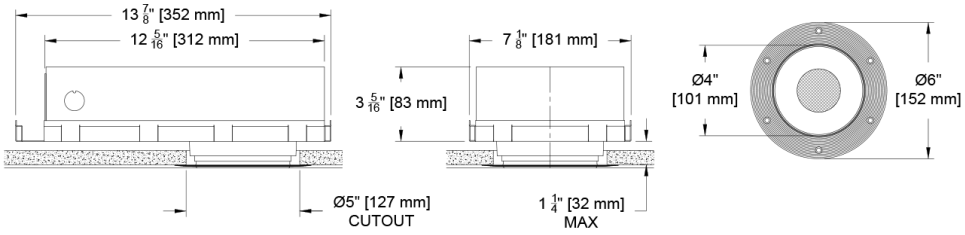
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Ceiling Cutouts and Dimensions

Deep Regress Shown - others similar

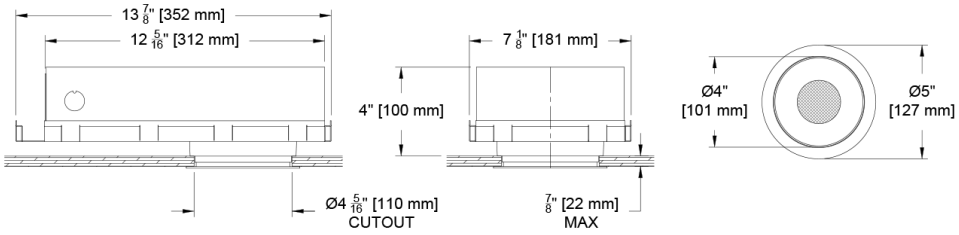
Round Flangeless Housing — Airtight Shallow Plaster (ASP)

CR4D-RA-DR-Z-ASP-



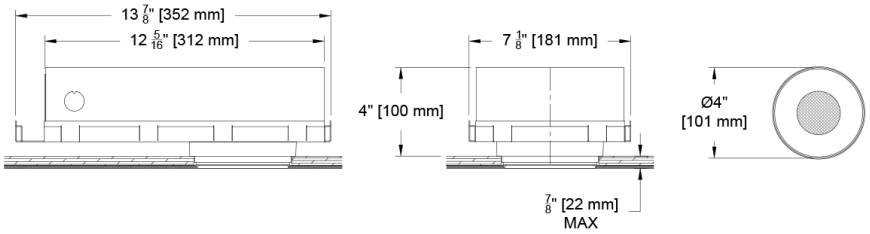
Round Flanged Housing — Airtight Shallow Universal (ASU)

CR4D-RA-DR-F-ASU-

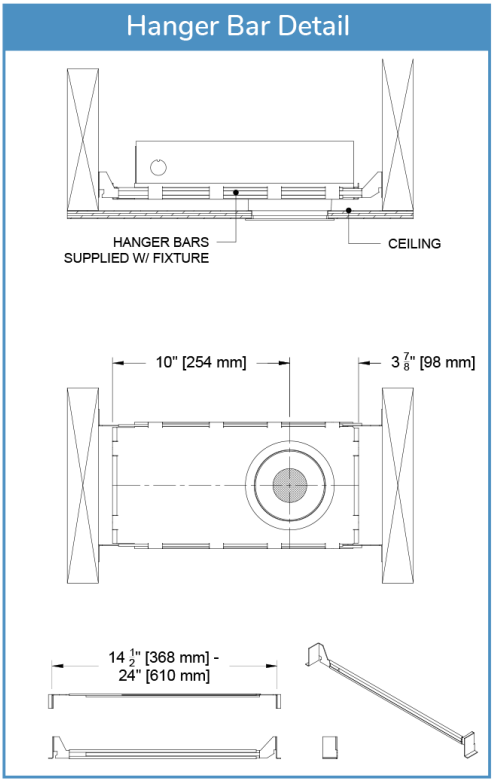


Round Flangeless Housing — Airtight Shallow Panel (ASPM)

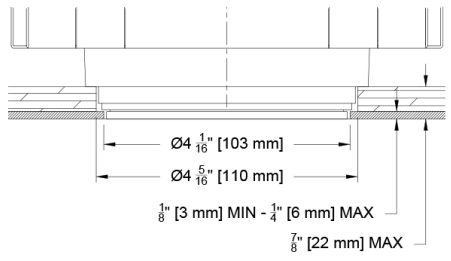
CR4D-RA-Z-ASPM-



Hanger Bar Detail



Panel Mount Detail



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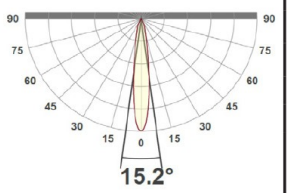
Shallow Housing Photometeric Table

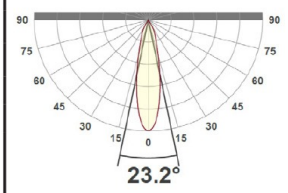
All data below is based from goniometer measurement of production representative product. All lumen values can vary +/-10% from LED manufacturer rated nominal flux.

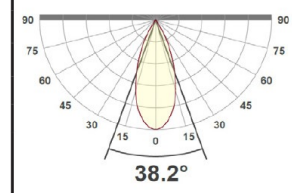
ROUND Beamspreads			15°				24°				40°				55°			
	Source	System watts (W)	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field
Deep Regress	Citizen C14	15	1149	77	7832	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																	

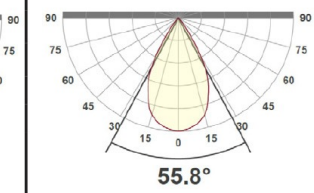
CCT Multiplier	
CCT	Citizen
2700	0.95
3000	1.00
3500	1.02
4000	1.03

All measurements based on 3000 CCT.
Ambient Dim based on full output.









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Photometric Table

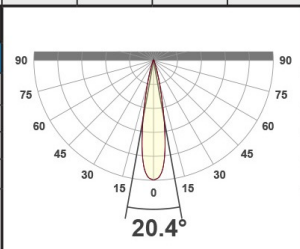
All data is based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range. Measurements at 3000 CCT

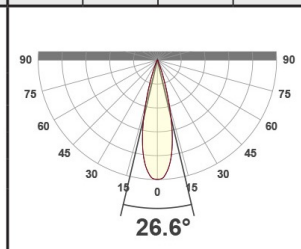
ROUND Beamspreads			15°				24°				40°				55°			
Source		System watts (W)	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del.Lumens (lm)	Lumen/ Watt	Peak CD	10% Field	Del. Lumens (lm)	Lumen/ Watt	Peak CD	10% Field
Deep Regress	Citizen C14	15	1470	99	9722	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°								

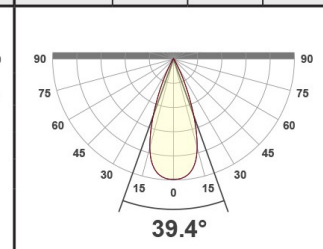
CCT Multiplier

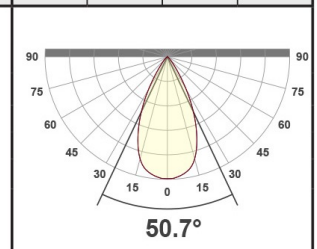
CCT	Citizen
2700	0.95
3000	1.00
3500	1.02
4000	1.03

All measurements based on 3000 CCT. Ambient Dim based on full output.









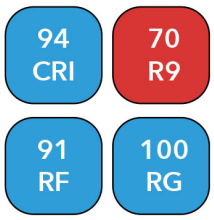
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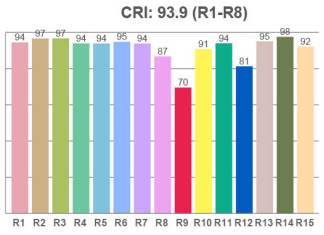
Color Data

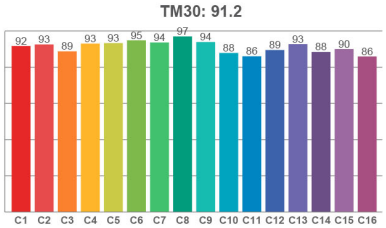
All data is based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

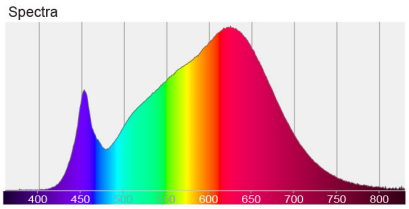
Citizen Sources - C14, C20 and C28

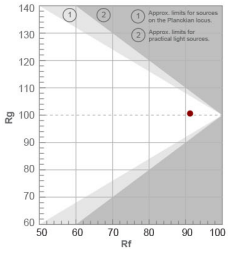
- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

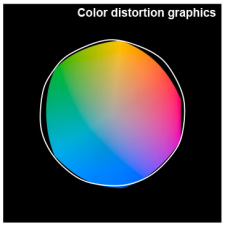


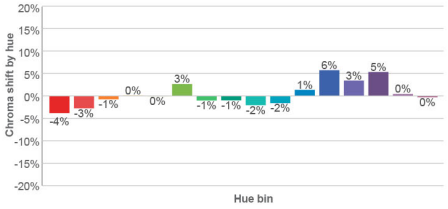






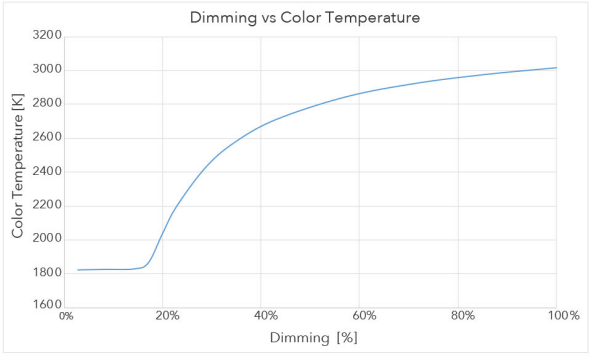






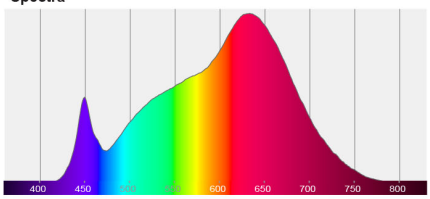
Ambient Dim - 3000k to 1900k

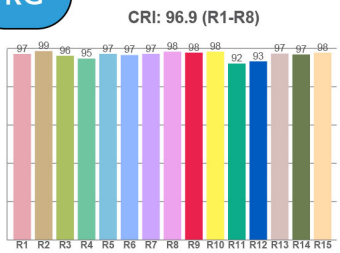
- <3 MacAdam Ellipse (<3 SDCM)
- 95+ CRI and RF
- 90+R9, Hue Bin 1
- Follows Black Body Locus through dimming range



3000 CCT Full Output

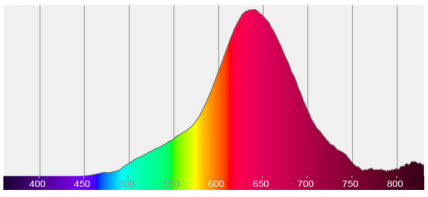


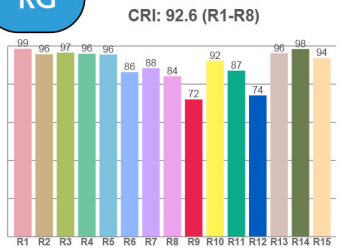




1850 CCT 5% Output







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