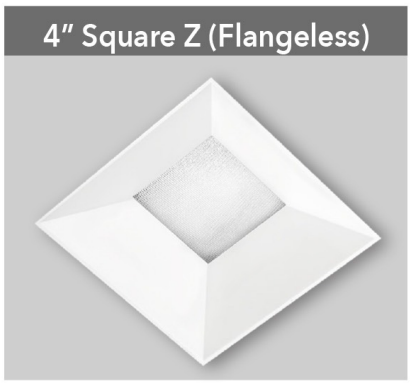
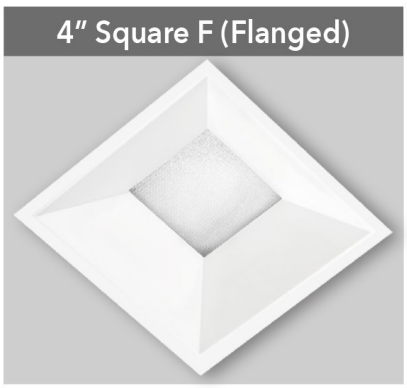
The Core Family

The Core family line offers a rich diversity of technical and aesthetic options. Our 4" square fixed offers 14+ finishes & custom wood choices. A wide range of source/optic selections, 3 ranges of Ambient Dim™ (Warm Dim), 5 beam spreads , and a multitude of driver/control options including TruPhase™ (phase dimming down to 0.1%). The Core product family is created on platform allowing for a high degree of modification.

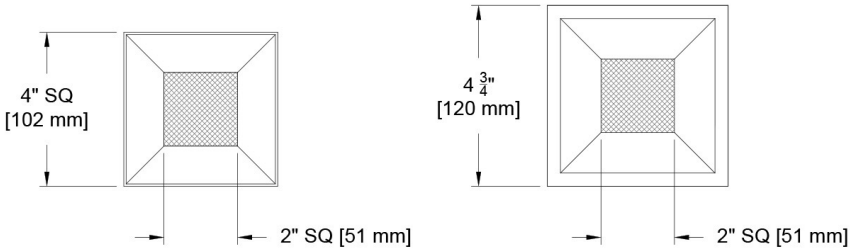
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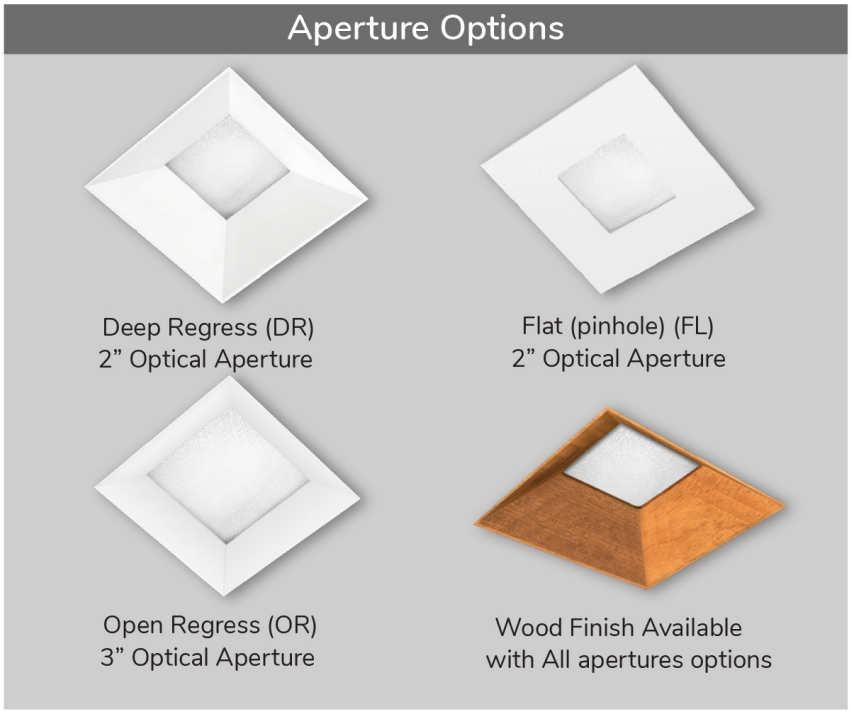
SPECIFIER: DATE:





Deep Regress Shown





Key Points (CR4D-SF)

Trim

- Flanged of 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
- AmbientDim™, RGBW & Tunable White options
- 90 CRI , 55+ R9 Standard- 95 CRI 90+R9
- <2 MacAdam Steps (<2SDCM) for fixed white
- Up to 2045 delivered lumens
- 4 beamspreads available - 15º, 24º, 40º, and 55º

Housing

- Heavy gauge steel for new construction or remodel
- TITLE 24 Compliant to JA8 with Airtight Housing
- c SA 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

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 to housing
- Universal 120-277v

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Ordering Codes

PROJECT: | SPECIFIER:

DATE: | TYPE: | QUANTITY:

Ordering Code Example: CR4D-SF-DR-Z-AU-C20-35-24-E2-P16-91A-91L-97L-CP

FIXTURE	APERTURE	TRIM	MOUNTING	LUMENS / WATTS	CCT	BEAM	DRIVER / CONTROL	TRIM FINISH	LENS ACCESSORIES	ACCESSORIES
CR4D-SF										
Core 4" Square Fixed Downlight	DR Deep Regress OR Open Regress FL Flat (Pin Hole)	**Flangeless Trims** Z Flangeless Trim ZS Flangeless Shower Trim* *(for mounting choose from Flangeless Housings)* **Flanged Trims** F Flanged Trim FS Flanged Shower Trim* *(for mounting choose from Flanged Housings)* * Aperture Lens Required	**Flangeless Housings** PM Panel Mount P Plaster - Non IC AP Airtight Plaster *IC-Rated* APM Airtight Panel Mount *IC-Rated* AP * Airtight Plaster *IC-Rated* **Flanged Housings** U Universal - Non IC Housing AU Airtight Universal *IC-Rated* **Shallow Housing** ASPM * Airtight Shallow Panel *IC-Rated* ASP * Airtight Shallow Plaster *IC-Rated* ASU * Airtight Shallow Universal *IC-Rated* Supports California Title 24 compliance to JA8 Requirements *Cannot be used with C28 Source	**Citizen** C14 15W 995Lm** 90+CRI, 60+R9 C20 21W 1326Lm** 90+CRI, 60+R9 C28 30W*† 1857Lm** 90+CRI, 60+R9 **Tunable** T9 10W 90+CRI, 60+R9 *Tunable White* T15 15W 90+CRI, 60+R9 *Tunable White* T20 21W 90+CRI, 60+R9 *Tunable White* RGBW 90+CRI, 60+R9 **Ambient Dim™** A14 15W 656Lm 95+CRI, 90+R9 A20 21W 858Lm 95+CRI, 90+R9 California Title 24 Compliant to JA8 †Flat Aperture does not meet Title 24 +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*	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* 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 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 **See Specialty 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 *Refer to Lens Accessory Guide LENS ACCESSORY VISUAL GUIDE LINK	CP Chicago Plenum EM Emergency Pack* **Remote Required* 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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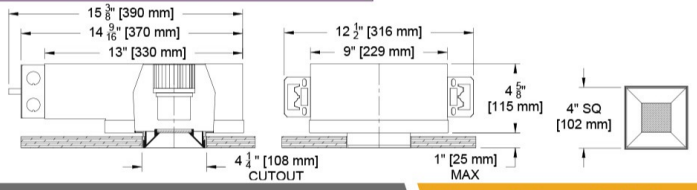
Ceiling Cutouts and Dimensions

Deep Regress shown - other apertures are similar

Square Flangeless Housing — Panel Mount (PM/APM)

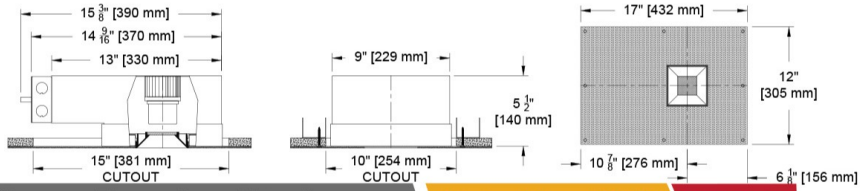
CR4D-SF-DR-Z-PM/APM-

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



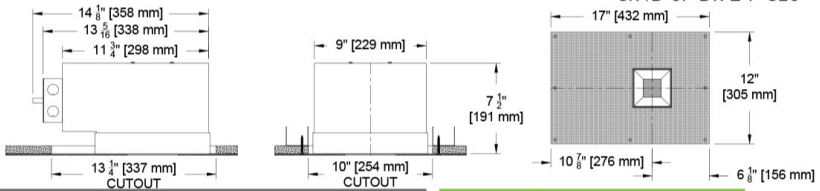
Square Flangeless Housing — Plaster Mount (P/AP)

CR4D-SF-DR-Z-P/AP-



Square Flangeless Housing — Plaster Mount (P/AP) C28 Only*

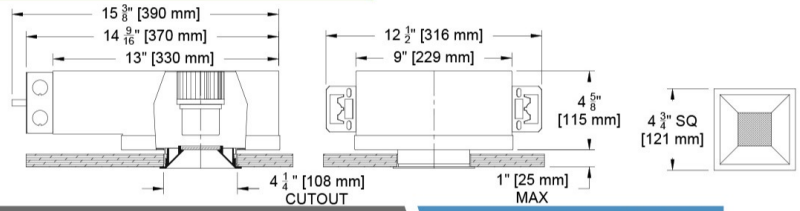
CR4D-SF-DR-Z-P-C28-



Sqaure Flangeless Housing — Universal Mount (Z/U/AU)

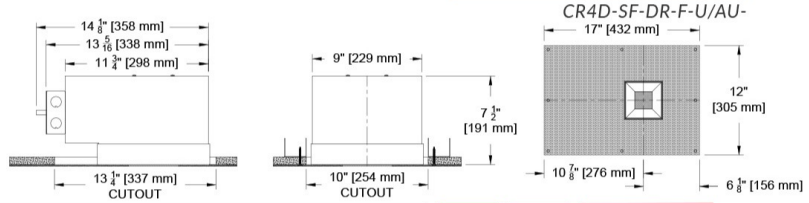
CR4D-SF-DR-Z-U/AU-

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



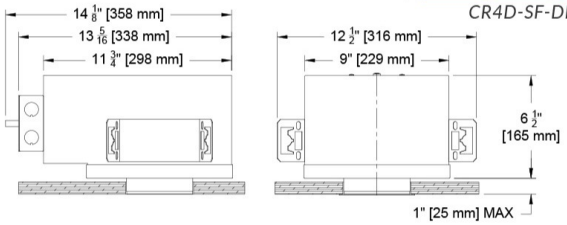
Sqaure Flanged Housing — Universal Mount (F/U/AU)

CR4D-SF-DR-F-U/AU-

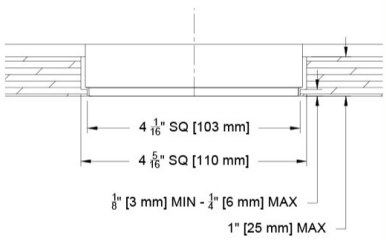


Sqaure Universal Housing — (U) (PM) C28 Only*

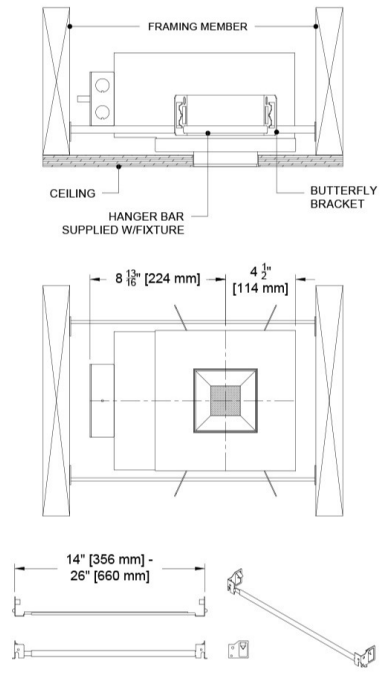
CR4D-SF-DR-F/Z-U/PM-C28-



Panel Mount Detail



Hanger Bar Detail



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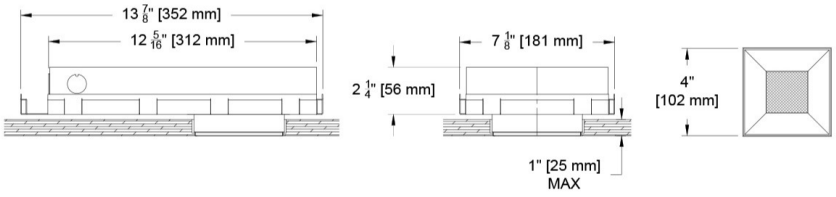
Ceiling Cutouts and Dimensions

Deep Regress shown - other apertures are similar

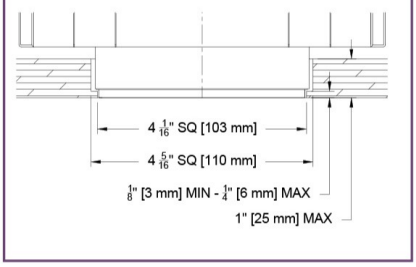
Square Flangeless Housing — Airtight Shallow Panel (Z/ASPM)

CR4D-SF-DR-Z-ASPM-

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

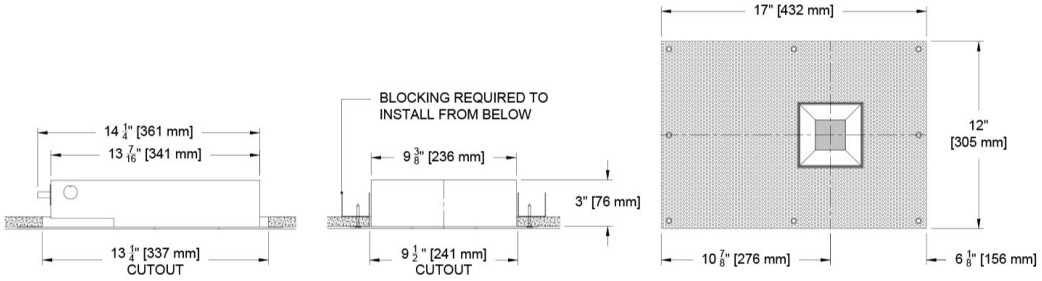


Panel Mount Detail



Square Flangeless Housing — Airight Shallow Plaster (Z/ASP)

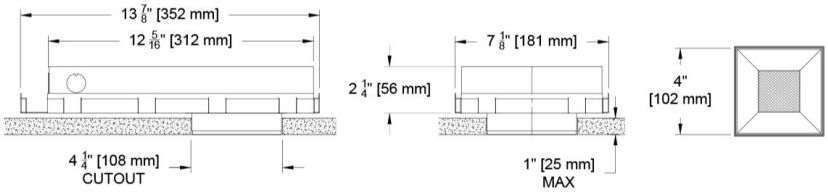
CR4D-SF-DR-Z-ASP-



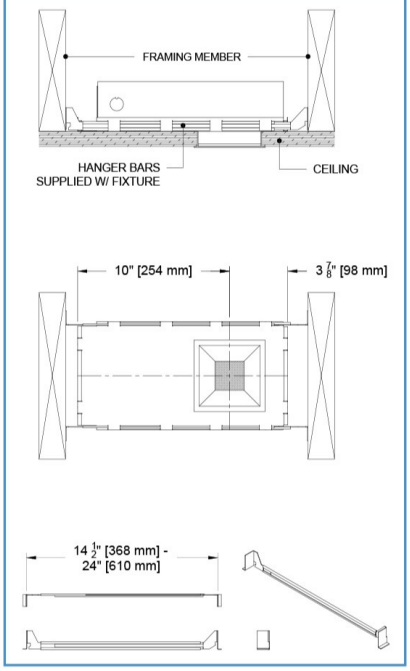
Sqaure Flangeless Housing — Airtight Shallow Universal (Z/ASU)

CR4D-SF-DR-Z-ASU-

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

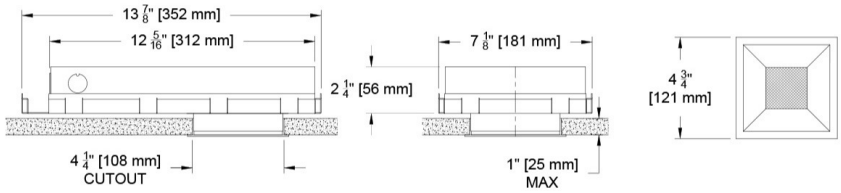


Hanger Bar Detail



Sqaure Flanged Housing — Airtight Shallow Universal (F/ASU)

CR4D-SF-DR-F-ASU-



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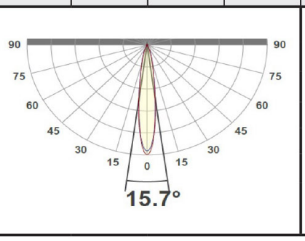
Photometric Table

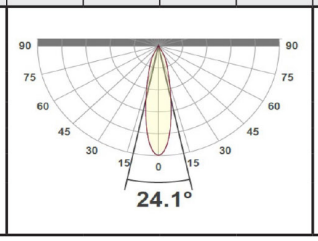
All data is based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range. Measurements at 3000 CCT

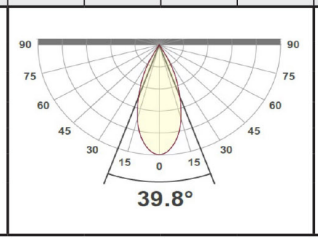
SQUARE Beamspreads			15°				24°				40°				55°			
	Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lms/ Watt	Peak CD	10% Field
Deep Regress	Citizen 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°
Flat (Pin Hole)	Citizen C14	15	829	55	7740	37°	737	49	1436	46°	719	48	2379	51°	661	44	1357	64°
	Citizen C20	21	1105	53	10321	35°	982	47	5513	42°	958	46	3169	49°	881	42	1808	62°
	Citizen CZ8*	30	1525	51	14258	32°	1355	45	7604	44°	1322	44	4375	53°	1216	41	2496	59°
	Ambient Dim A14	15	539	36	4828	36°	479	32	2326	42°	467	31	1301	50°	429	29	689	63°

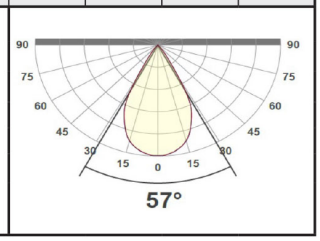
CCT Multiplier	
CCT	Citizen
2700	0.95
3000	1.00
3500	1.02
4000	1.03

All measurements based on 3000 CCT.









All Measurements delivered or derived delivered lumens based on 3000K. 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.

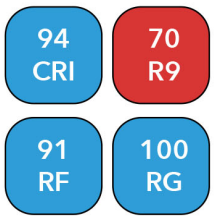
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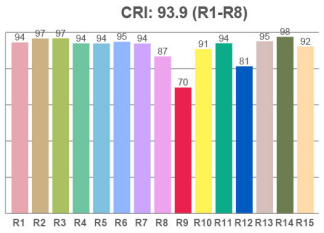
Color Data

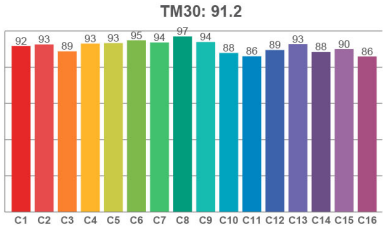
All data is based from goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range. Measurements at 3000 CCT

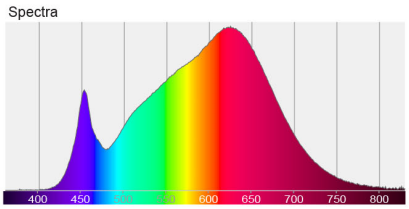
Citizen Sources - C14, C20 and C28

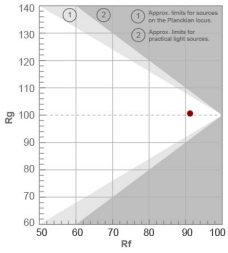
- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

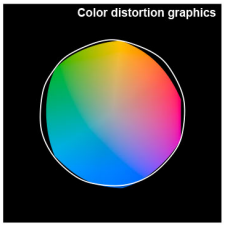


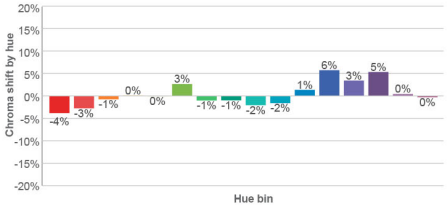






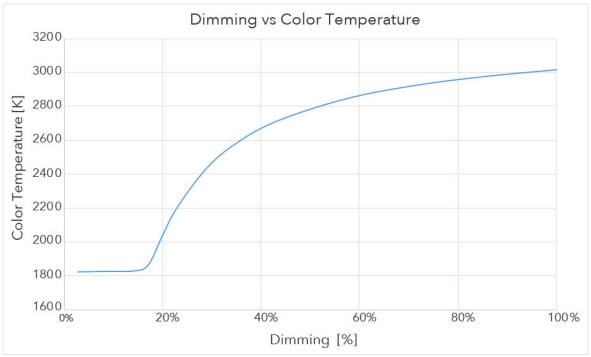






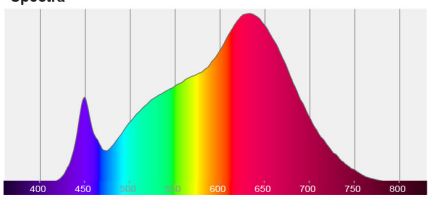
Ambient Dim - 3000k to 1900k

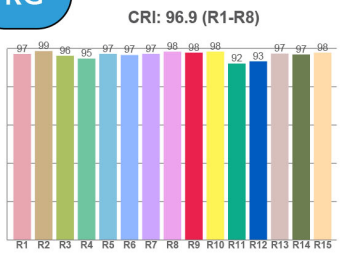
- <3 MacAdam Ellipse (<3 SDCM)
- 95+ CRI and RF
- 90+R9, Hue Bin 1
- Follows Black Body Locus through dimming range



3000 CCT Full Output

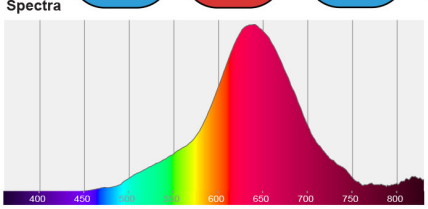


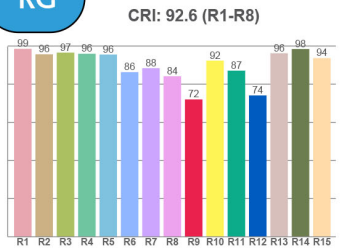




1850 CCT 5% Output







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