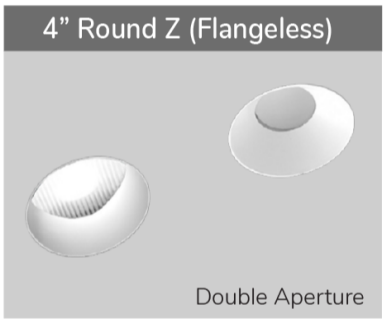
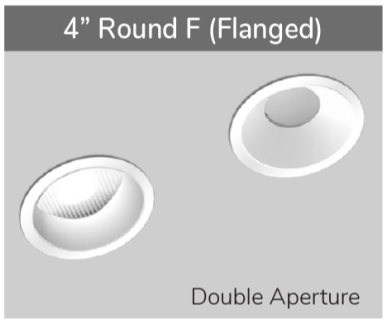
# Core 4" Round Double Adjustable Downlight/Wall Wash

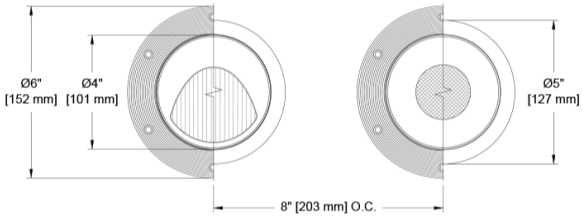
Recessed Adjustable Multiple Aperture

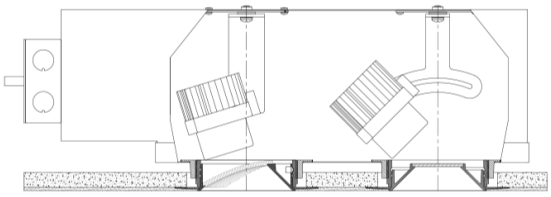
## The Core Family

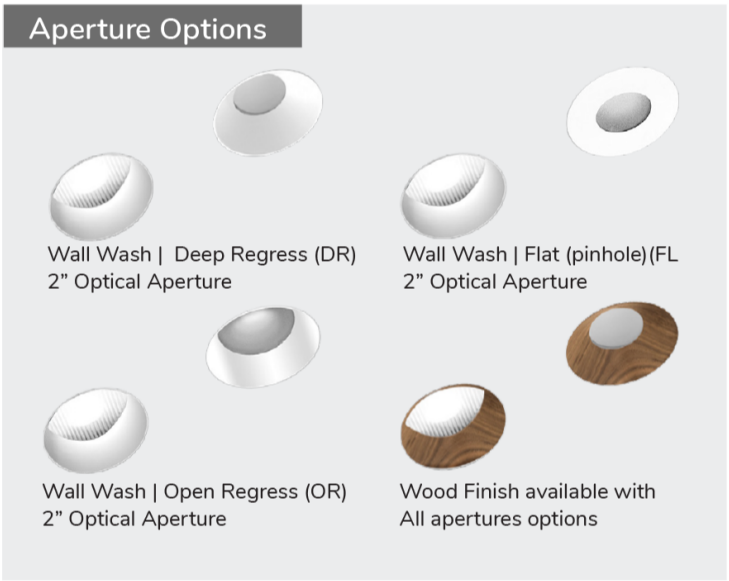
When wall washing and accent/downlighting are needed in the same ceiling space, this 8" on center dual aperture fixture delivers a rich diversity of technical and aesthetic options including field configurable wall wash, adjustable accent light, over 14 finishes including custom wood trims, flux and source selections featuring 90+ CRI fixed white and our world class Ambient Dim (Warm Dim), and a plethora of driver and control choices. The Core Downlight/Wall Wash is created on a platform allowing a high degree of modification, so if you don't see what you are looking for, just ask for it.






PROJECT: TYPE:

SPECIFIER: DATE:

### Key Points (CR4MDW-RMDL)

#### Trim

- Wall Wash trim and light engine can be field oriented to wash adjacent or oppsite walls
- Individual die cast aluminum or machined wood
- 14 color options + custom RAL or wood available
- Plaster Mount has plaster flange and lip

#### Source / Optics

- Wall wash achieves a uniform 3.7:1 ratio from top to bottom of 10' wall
- Over 2300 lumens delivered in downlight and 1600 lm in wall wash with and C28 source selection
- <2 MacAdam Steps (<2SDCM) for fixed white
- 90 CRI , 60+ R9 Standard- 95 CRI 90+R9 Optional
- 2400K, 2700K, 3000K, 3500K, 4000K
  Ambient Dim, RGBW & Tunable White options

#### Housing

- Adjusts to 45° tilt with 360° rotation
- 3 types of flangeless mounting options
- Heavy gauge aluminum for new construction or remodel
- IC Rated / Airtight Housing approved for use in direct contact with insulation – Chicago Plenum Available
- Approved for 8 (4-in / 4-out) #12 AWG conductors rated for 90°C through wiring
- c SP us Listed – Damp or wet with shower trim
- TITLE 24 Compliant to JA8 with Airtight/IC Housing

#### Driver

- 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, DMX, Ecosystem or Wireless Control
- Universal 120-277v


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# Core 4" Round Double Adjustable Downlight/Wall Wash

Recessed Adjustable Multiple Aperture

specialty lighting industries

# Ordering Codes

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

*Ordering Code Example: CR4MDW-RMDL-FL-Z-AU-AWL-C20-35-15-LD-2C-P14-LR*

| FIXTURE | APERTURE | TRIM | MOUNTING | CONFIGURATION | LUMENS / WATTS | CCT | BEAM | DRIVER / CONTROL | CIRCUITS | TRIM FINISH | LENS ACCESSORIES | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR4MDW-RMDL | | | | | | | | | | | | |
| Core 4" Round Double Adjustable Downlight/Wall Wash | DR<br>WW/DL-Deep Regress<br><br>OR<br>WW/DL-Open Regress<br><br>FL<br>WW/DL-Flat (Pin Hole)<br><br>Note: Select for accent light aperture type | **Flanged Trims**<br>F<br>Flanged Trim<br><br>FS<br>Flanged Shower Trim*<br><br>*(for mounting choose from Flanged Housings)*<br><br>**Flangeless Trims**<br><br>Z<br>Flangeless Trim<br><br>ZS<br>Flangeless Shower Trim*<br><br>*(for mounting choose from Flangeless Housings)* | **Flanged Housings**<br>U<br>Universal - Non IC<br><br>AU<br>Airtight Universal<br>*IC-Rated*<br><br>**Flangeless Housings**<br><br>P<br>Plaster - Non IC<br><br>AP<br>Airtight Plaster<br>*IC-Rated*<br><br>PM<br>Panel Mount - Non IC<br><br>APM<br>Airtight Panel Mount<br>*IC-Rated*<br><br>California Title 24 Compliant<br><br>*Cannot be used with C28 source | AWL<br>Accent/Wall Wash Left<br><br>WAL<br>Wall Wash Left/Accent<br><br>Wall Wash can be oriented in the field<br><br>Thumbnails shown as RCP | **Citizen**<br>C14<br>15W<br>1149Lm*<br>90+CRI, 60+R9<br><br>C20<br>21W<br>1531Lm*<br>90+CRI, 60+R9<br><br>C28<br>30W†<br>2046Lm*<br>90+CRI, 60+R9<br><br>**Tunable**<br><br>T9<br>90+CRI, 60+R9<br>*Tunable White*<br><br>T15<br>15W<br>90+CRI, 60+R9<br>*Tunable White*<br><br>T20<br>21W<br>90+CRI, 60+R9<br>*Tunable White*<br><br>RGBW<br>90+CRI, 60+R9<br><br>**Ambient Dim™**<br><br>A14<br>15W<br>882Lm*<br>95+CRI, 90+R9<br><br>A20<br>21W<br>858Lm<br>95+CRI, 90+R9<br><br>California Title 24 Compliant to JA8 for most downlight cells.<br><br>† Requires Active Cooling and not compatible with IC/Airtight housing. Not compatible with L2 and LP drivers.<br><br>*Based on single downlight DR cell & 15° beam. | 24<br>2400K<br><br>27<br>2700K<br><br>30<br>3000K<br><br>35<br>3500K<br><br>40<br>4000K<br><br>**Tunable**<br><br>TW1840<br>1800-4000K<br>Tunable White<br>*w/ E1, E2, E3, E4*<br><br>TW2765<br>2700-6500K<br>Tunable White<br>*w/ E1, E2, E3, E4*<br><br>RG1280<br>1200-8000K<br>RGBW Dynamic Color Changing<br>**Requires E2 or E4*<br><br>**Ambient Dim™**<br><br>2722<br>2700-2200K<br>**A14 Only*<br><br>3019<br>3000-1900K<br><br>3022<br>3000-2200K<br>**A14 Only* | 15<br>Spot<br><br>24<br>Narrow Flood<br><br>40<br>Flood<br><br>55<br>Wide Flood<br><br>Note: Select for accent light aperture only | C1<br>0-10<br>1.0%, UNV<br>(120-277V) linear<br><br>C2<br>ELV/Triac<br>1.0%, (120V) linear<br><br>E1<br>0-10<br>0.1%, UNV<br>(120-277V) log<br><br>E2<br>DALI-2<br>0.1%, UNV<br>(120-277V) log<br><br>E3<br>0-10<br>0.1%, UNV<br>(120-277V) linear<br><br>E4^<br>DMX<br>0.1%, UNV<br>(120-277V)<br>Universal DMX Driver/Controller<br>*RGBW-DMX*<br>*^ INCLUDES DMX/RDM COMPATIBLE DRIVER WITH BUILT-IN DECODER - CONTROLLER BY OTHERS*<br><br>LD<br>Digital Ecosystem<br>1.0%, UNV<br>(120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1<br><br>TR2<br>TruPhase™<br>0.1%, (120-120V) log<br>Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only<br><br>* Not compatible with C28 | 1C<br>1 Circuit<br><br>2C<br>2 Circuit | W<br>White Paint<br><br>B<br>Black Paint<br><br>D<br>Wood*<br><br>PXX<br>Specialty Paint Color*<br>P01-P15<br><br>C<br>Custom/RAL Color**<br><br>*Refer to Wood Trim Guide<br>** Refer to Finish Guide<br><br>FINISH GUIDE LINK<br><br>WOOD TRIM GUIDE | **Aperture Lens**<br>91A<br>Solite<br><br>93A<br>Frosted<br><br>XXA<br>Other Aperture Lens Treatments*<br><br>**Reflector (lamp) Media**<br><br>93L<br>Frosted<br><br>91L<br>Solite<br><br>97L<br>Black Hexcel Louver<br><br>XXL<br>Other reflector (lamp) media*<br><br>Selections for accent light only<br>1 piece of Media per opening (aperture or reflector) can be selected<br>*Refer to Lens Guide<br><br>LENS ACCESSORY VISUAL GUIDE LINK | CP<br>Chicago Plenum<br><br>EM<br>Emergency Pack*<br>**Remote Required*<br><br>CA<br>Casambi Wireless BLE to be paired with driver<br><br>BABA<br>BABA Products<br><br>**Controls**<br><br>LR<br>Lutron Wireless RF PowPak<br><br>ATH<br>Lutron Athena Wireless Node<br>*Must be used with E2 driver* |


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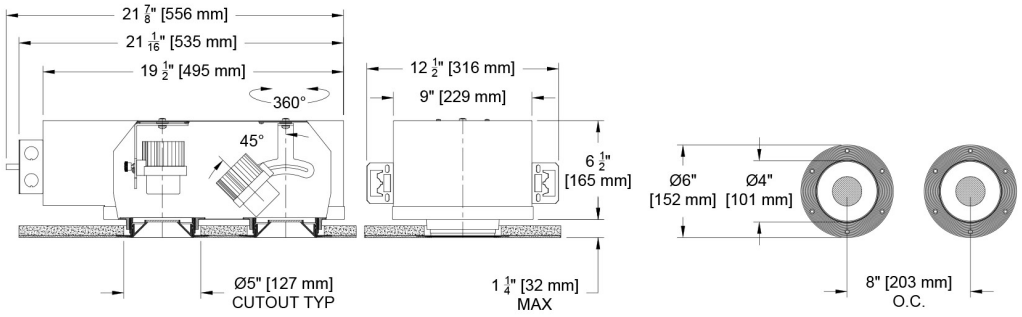
# Ceiling Cutouts and Dimensions

Downlight Deep Regress shown, other apertures similar

Wall Wash trim and light engine can be oriented, in the field, to wash adjacent or opposite walls.

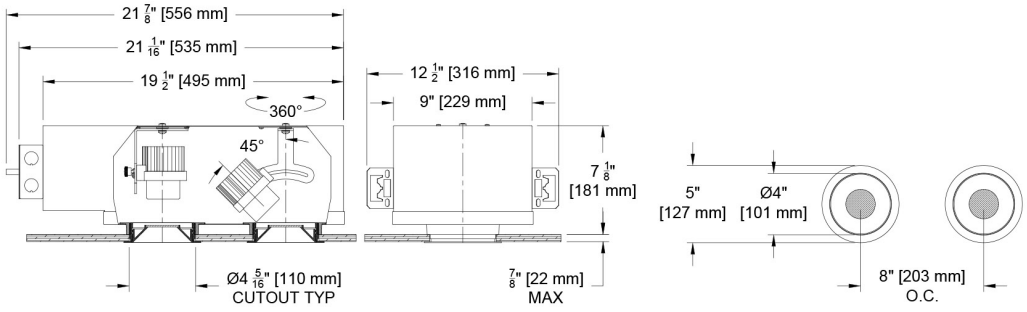
## 4" Round Flangeless Housing — Plaster Mount (P/AP)

(CR4MD-RMDL-DR-Z-P/AP)




## 4" Round Flangeless Housing — Flanged Mount (U/AU)

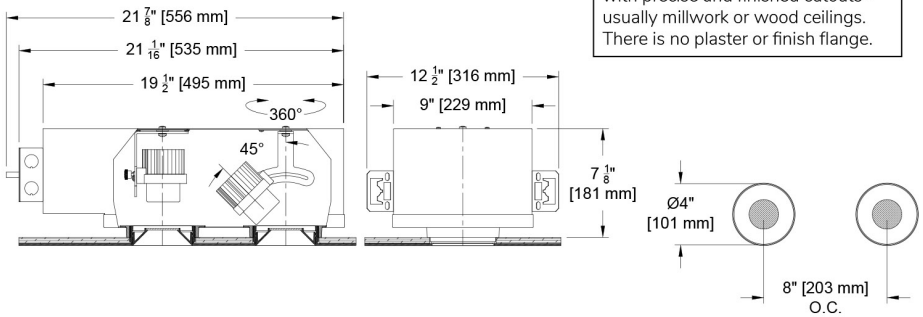
(CR4MD-RMDL-DR-F-U/AU)



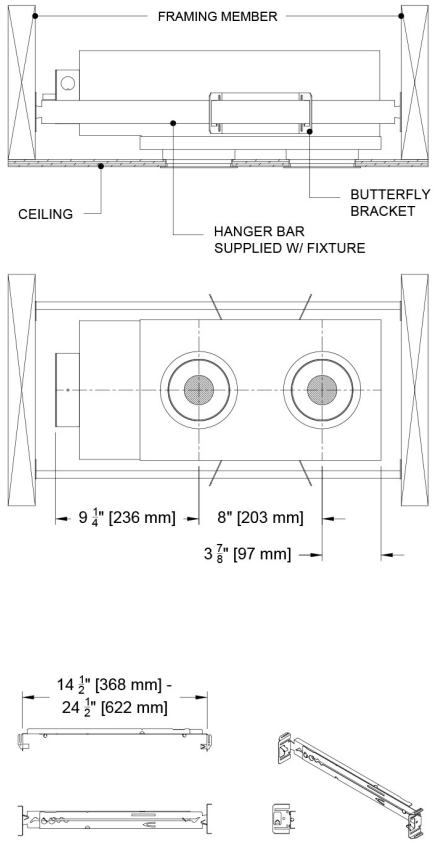

## 4" Round Panel Mount Housing — Panel Mount (PM/APM)

(CR4MD-RMDL-DR-Z-PM/APM)

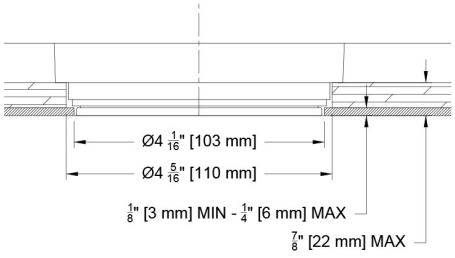
NOTE: This option is intended for use with precise and finished cutouts - usually millwork or wood ceilings. There is no plaster or finish flange.




## Hanger Bar Detail




## Panel Trim Detail





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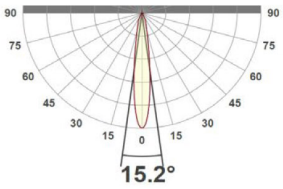
# Photometric Table

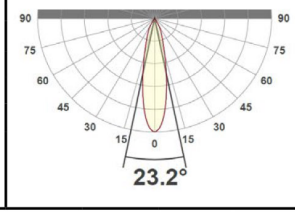
Values are based on single aperture fixtures. Calculations will require placing both downlight and wall wash elements (IES files) 8" on center in the desired orientation and configuration. All Measurements are delivered or derived delivered lumens at 3000k. Ambient dim at full output. All values can very +/-10% from source manufacturer rated flux range.

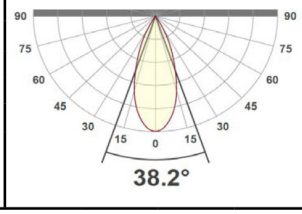
| ROUND Beamspreads | | | 15° | | | | 24° | | | | 40° | | | | 55° | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Source | System watts (W) | Delivered Lumens (lm) | Lumens/ Watt | Peak cd | 10% Field | Delivered Lumens (lm) | Lumens/ Watt | Peak cd | 10% Field | Delivered Lumens (lm) | Lumens/ Watt | Peak cd | 10% Field | Del. Lumens (lm) | Lms/ 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 | 1531 | 73 | 11189 | 43° | 1422 | 68 | 6491 | 52° | 1490 | 71 | 4096 | 56° | 1464 | 70 | 2208 | 72° |
| | Citizen C28* | 30 | 2046 | 68 | 16106 | 41° | 2006 | 67 | 9871 | 47° | 2069 | 69 | 5688 | 54° | 2020 | 67 | 3155 | 69° |
| | Ambient Dim A14 | 15 | 882 | 59 | 7188 | 38° | 858 | 57 | 4167 | 44° | 801 | 53 | 2027 | 57° | 844 | 56 | 1286 | 70° |
| 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° |
| | Ambient Dim A14 | 15 | 1001 | 67 | 7323 | 39° | 987 | 66 | 4067 | 53° | 991 | 66 | 2235 | 60° | 969 | 65 | 1281 | 72° |
| Flat (Pin Hole) | Citizen C14 | 15 | 824 | 55 | 7851 | 37° | 716 | 48 | 4844 | 46° | 700 | 47 | 2801 | 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 CZ8* | 30 | 1517 | 51 | 16982 | 32° | 1334 | 44 | 8389 | 44° | 1288 | 43 | 5154 | 53° | 1145 | 38 | 2962 | 59° |
| | Ambient Dim A14 | 15 | 747 | 50 | 7305 | 36° | 702 | 47 | 4077 | 42° | 678 | 45 | 2247 | 50° | 622 | 41 | 1076 | 63° |

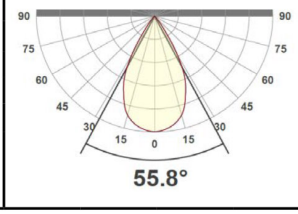
| CCT Multiplier | |
|---|---|
| CCT | Citizen |
| 2700 | 0.95 |
| 3000 | 1.00 |
| 3500 | 1.02 |
| 4000 | 1.03 |

All measurements based on 3000 CCT.




ISO CD Plot based on Open Regress.


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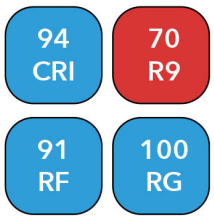
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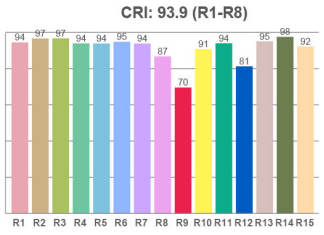
# Color Data

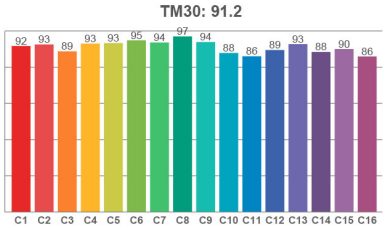
All data is based from goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated nominal flux. Measurements at 3000 CCT

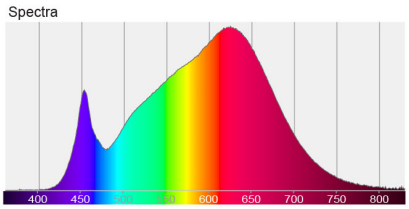
## Citizen Sources for C14, 20 and C28

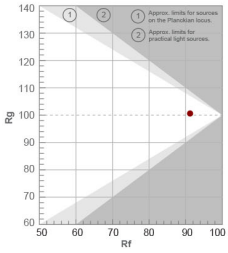
- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

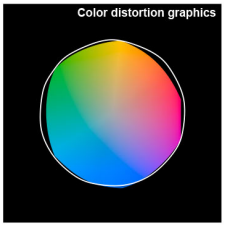


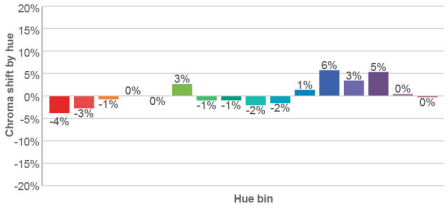



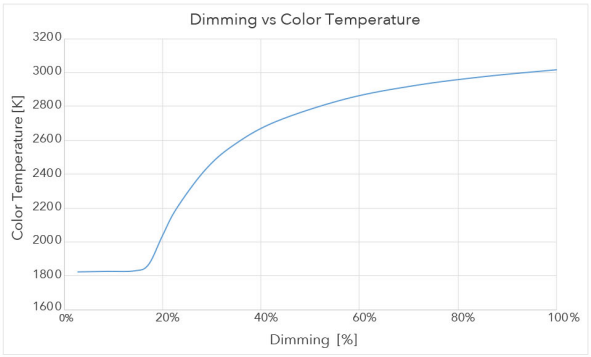



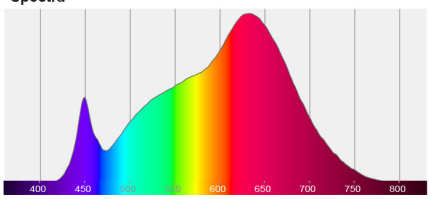

## Ambient Dim 3000k to 1900k

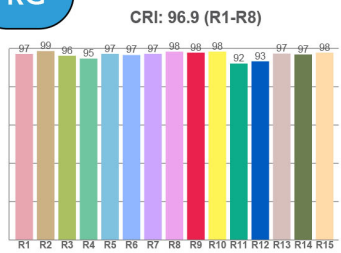
- <3 MacAdam Ellipse (<3 SDCM)
- 95+ CRI and RF
- 90+R9, Hue Bin 1
- Follows Black Body Locus through dimming range




**3000 CCT Full Output**

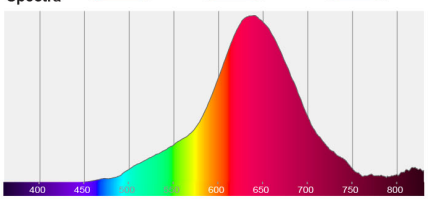


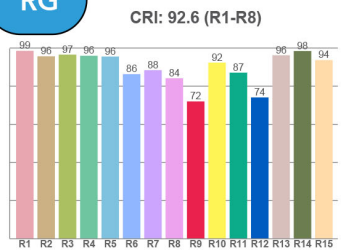




**1850 CCT 5% Output**





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