

# Core 4" Rectangular Multiple Adjustable Downlight/Wall Wash - 2 Cell

Formerly known as 1240AW

Recessed Adjustable Multiple Aperture (Cell)

## 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 member of the family allows multiple combinations of Accent/Downlight and wall wash orientations in the same fixture. If 3 cells are needed in a specific combination, just ask. We can most likely make the modification. With many source, driver, control and finish options, including wood, this wall wash delivers a 3.7:1 uniformity from top to bottom of the wall along with 4 beam spreads in the adjustable downlight.

PROJECT:

TYPE:

SPECIFIER:

DATE:

### Key Points (CR4MDW-TMCA)

#### Trim

- 14 color options + custom RAL or wood available
- Plaster Mount allows installation from below with large plaster flange and lip
- Individual die cast aluminum or machined wood trim assembled to look as one contiguous multi cell fixture

#### Source / Optics

- Wall wash achieves a uniform 3.7:1 ratio from top to bottom of 10' wall
- Downlight/Accent adjustable with 45° tilt and 360° rotation
- Over 1900 lumens delivered in downlight and 1000 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, Tunable White & RGBW options

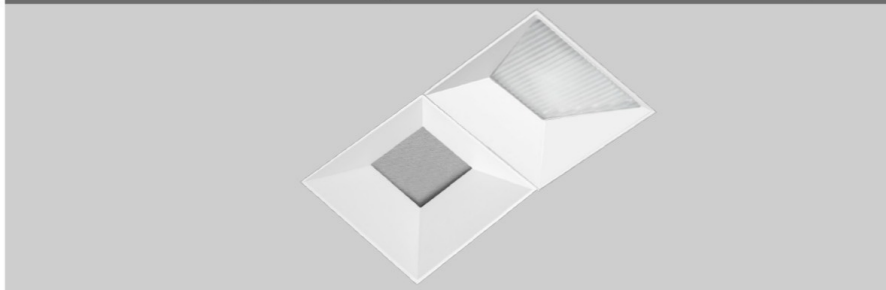
#### Housing

- 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
-  cULus Listed – Damp
-  Compliant to  with Airtight/IC Housing

#### Driver

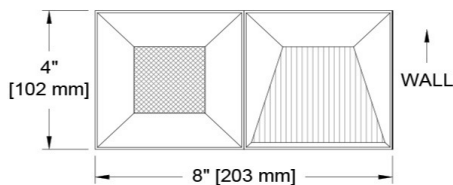
- Dimming to 0.1% available
- Prewired and integral to housing
- Flicker free to IEEE 1789-2015
- Phase, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Universal 120-277v

### 4"x8"- 2 Cell Adjustable (AWS -Accent/Wall Wash Side)

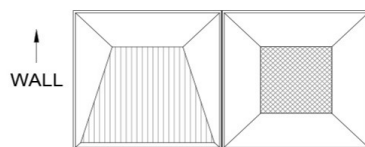


\*See below for all 6 possible configurations/orientations

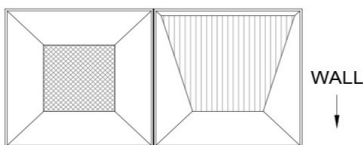
AWL - ACCENT/WALL WASH LEFT  
REFLECTED PLAN VIEW



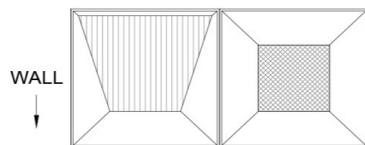
WAL - WALL WASH/ACCENT LEFT  
REFLECTED PLAN VIEW



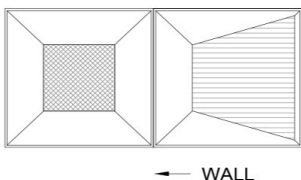
AWR - ACCENT/WALL WASH RIGHT  
REFLECTED PLAN VIEW



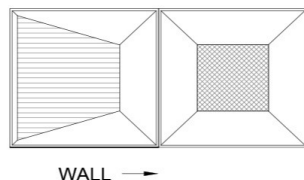
WAR - WALL WASH/ACCENT RIGHT  
REFLECTED PLAN VIEW



AWS - ACCENT/WALL WASH SIDE  
REFLECTED PLAN VIEW



WAS - WALL WASH/ACCENT SIDE  
REFLECTED PLAN VIEW



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Ordering Codes

PROJECT:

SPECIFIER:

DATE:

TYPE:

QUANTITY:

Ordering Code Example: CR4MDW-TMCA-Z-AU-AWL-C20-35-24-LD-2C-P14-91A

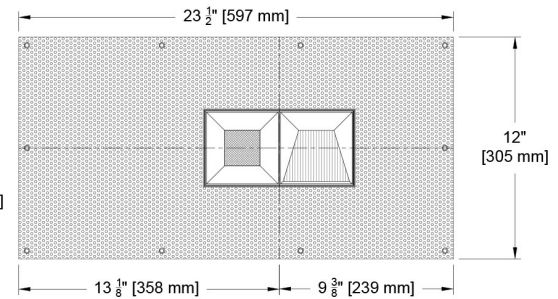
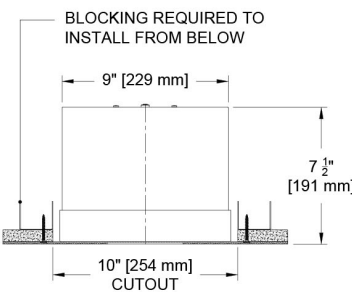
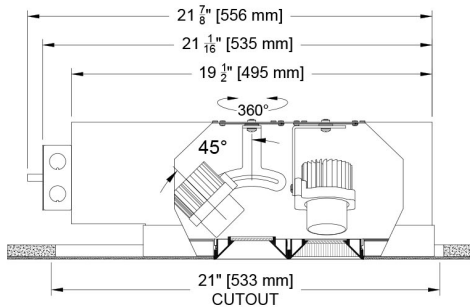
| FIXTURE                                                              | TRIM                                                                                                                 | MOUNTING                                                                                                                                                                                                                                                                    | CONFIGURATION                                                                                                                                                                                                                                           | SOURCE / WATTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BEAM                                                                                                                        | DRIVER / CONTROL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CIRCUITS                               | TRIM FINISH                                                                                                                                                                                                                                            | LENS ACCESSORIES                                                                                                                                                                                                                                                                                                                                                                     | ACCESSORIES                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CR4MDW-TMCA                                                          |                                                                                                                      |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                             |
| Core 4" Rectangular Multiple Adjustable Downlight/Wall Wash - 2 Cell | Z<br>Flangeless Trim<br><br>Note: Open Regress and Flat aperture trims for downlight cell are available upon request | U<br>Universal - Non IC<br><br>AU<br>Universal IC/Airtight*<br><br>P<br>Plaster - Non IC<br><br>AP<br>Plaster IC/Airtight*<br><br>PM<br>Panel Mount - Non IC<br><br>APM<br>Panel Mount Airtight/IC*<br><br>California Title 24 Compliant<br>*Cannot be used with C28 source | AWL<br>Accent/Wall Wash Left<br><br>AWR<br>Accent/Wall Wash Right<br><br>AWS<br>Accent/Wall Wash Side<br><br>WAL<br>Wall Wash Left/Accent<br><br>WAR<br>Wall Wash Right/Accent<br><br>WAS<br>Wall Wash Side/Accent<br><br>Note: Thumbnails are RCP view | Citizen<br><br>C14<br>15W<br>1068Lm*<br>90+CRI, 60+R9<br><br>C20<br>21W<br>1424Lm*<br>90+CRI, 60+R9<br><br>C28<br>30†<br>1848Lm*<br>90+CRI, 60+R9<br><br>Ambient Dim™<br><br>A14<br>15W<br>694Lm*<br>95+CRI, 90+R9<br><br>A20<br>21W<br>858Lm<br>95+CRI, 90+R9<br><br>Tunable<br><br>T14<br>90+CRI, 60+R9<br>Tunable White<br><br>T20<br>21W<br>1490Lm^<br>90+CRI, 60+R9<br>Tunable White<br><br>RGBW<br>90+CRI, 60+R9<br><br>California Title 24 Compliant to JA8.<br><br>† Requires Active Cooling and not compatible with IC/Airtight housing. Not compatible with L2 and LP drivers.<br><br>*Based on single cell downlight & 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>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<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 | 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 downlight cell only | C1<br>0-10<br>1.0%, UNV (120-277V) linear<br><br>C2<br>ELV/Triac<br>1.0%, (120V) linear<br><br>E1<br>0-10<br>0.1%, UNV (120-277V) log<br><br>E2<br>DALI-2<br>0.1%, UNV (120-277V) log<br><br>E3<br>0-10<br>0.1%, UNV (120-277V) linear<br><br>E4 ^<br>DMX<br>0.1%, UNV (120-277V) Universal DMX Driver/Controller<br>RGBW-DMX ^ INCLUDES DMX/RDM<br>COMPATIBLE DRIVER WITH BUILT-IN DECODER - CONTROLLER BY OTHERS<br><br>Lutron<br><br>LD<br>Digital Ecosystem<br>1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1<br><br>LP<br>Digital Ecosystem*<br>0.1%, UNV (120-277V) ECO Premier Hi-Lume SoftOn/Fade-to-Black, PEQ0, 20W max<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><br>91A Solite<br><br>93A Frosted<br><br>XXA Other Aperture Lens Treatments*<br><br>Reflector (lamp) Media<br><br>93L Frosted<br><br>91L Solite<br><br>97L Black Hexcel Louver<br><br>XXL Other reflector (lamp) media*<br><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 | EM<br>Emergency Pack<br><br>CP<br>Chicago Plenum<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<br><br>CA<br>Casambi Wireless BLE to be paired with driver |

## Ceiling Cutouts and Dimensions

### 2 Cell Flangeless Housing

### Plaster Mount (P/AP)

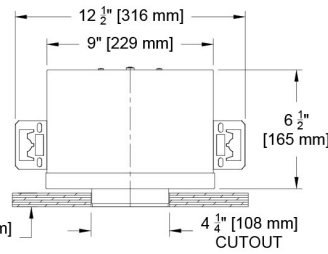
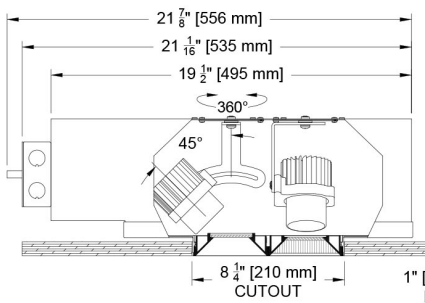
(CR4MDW-TMCA-2-Z-P/AP)



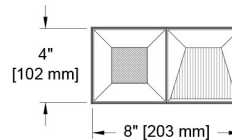
### 2 Cell Flangeless Housing

### Flangeless Mount (U/AU)

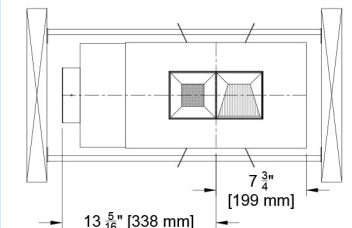
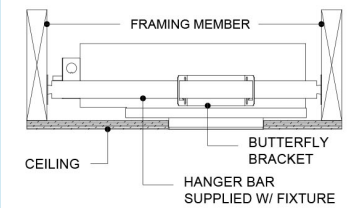
(CR4MDW-TMCA-2-Z-U/AU)



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



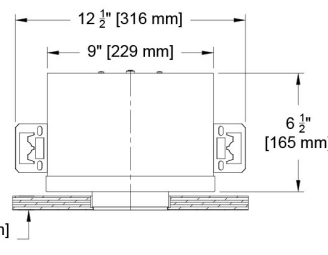
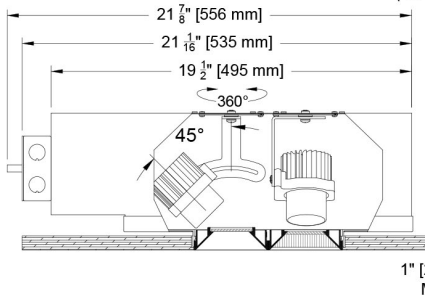
### Hanger Bar Detail



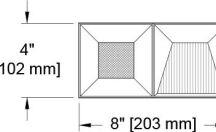
### 2 Cell Flangeless Housing

### Panel Mount (PM/APM)

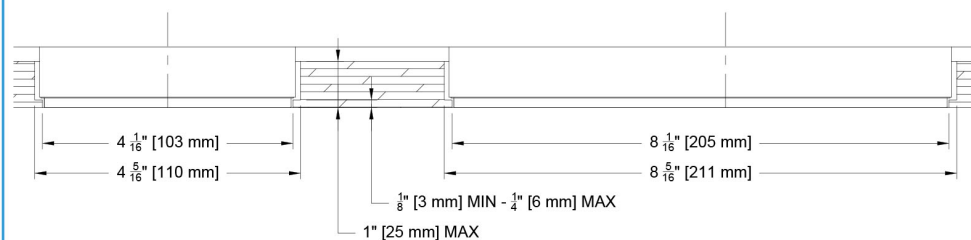
(CR4MDW-TMCA-2-Z-PM/APM)



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



### Panel Mount Detail



Core 4" Rectangular Multiple Adjustable Downlight/Wall Wash - 2 Cell

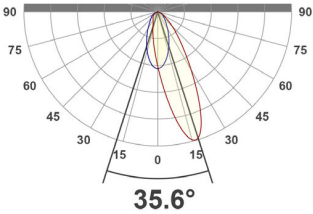
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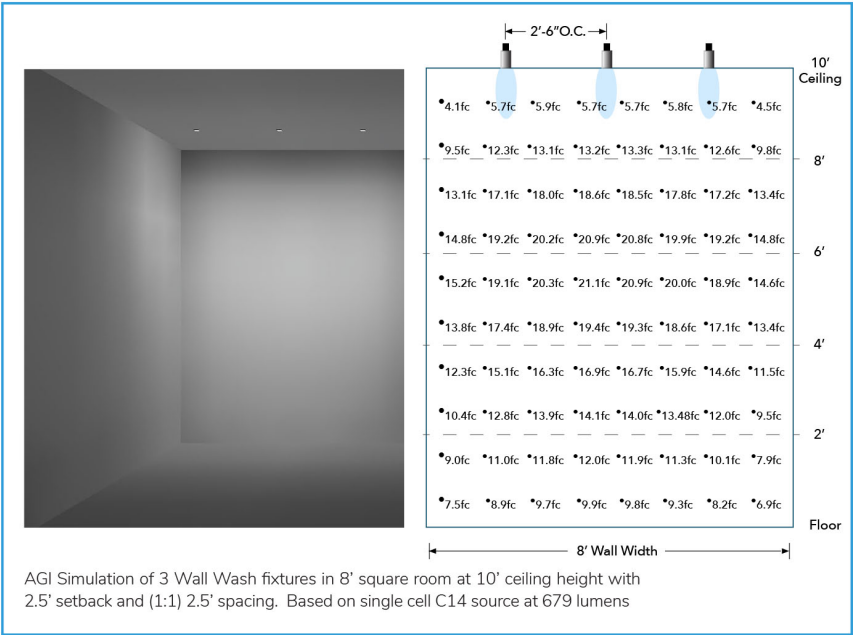


Photometric Table All data is based from goniometer measurements of production representative single cell fixture. Multiple heads will deliver additional light and will need to be accounted for individually in calculations. All lumen values can vary +/- 10% from LED manufacturer rated flux range. Measurements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

| SQUARE 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 C28*    | 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.

| RECTANGULAR (2 Cell) Wall Wash (CR4WW-TMCA)                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                                     |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|--------------|
| Source                                                                                                                                                                                                                                                                                                                                                                                                                   | System watts (W) | Delivered Lumens (lm)                                                               | Lumens/ Watt |
| Citizen C14                                                                                                                                                                                                                                                                                                                                                                                                              | 14               | 679                                                                                 | 49           |
| Citizen C20                                                                                                                                                                                                                                                                                                                                                                                                              | 21               | 832                                                                                 | 40           |
| Citizen C28*                                                                                                                                                                                                                                                                                                                                                                                                             | 30               | 1069                                                                                | 35           |
| Ambient Dim A14                                                                                                                                                                                                                                                                                                                                                                                                          | 15               | 461                                                                                 | 31           |
| CCT Multiplier                                                                                                                                                                                                                                                                                                                                                                                                           |                  |  |              |
| CCT                                                                                                                                                                                                                                                                                                                                                                                                                      | Citizen          |                                                                                     |              |
| 2700                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.95             |                                                                                     |              |
| 3000                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.00             |                                                                                     |              |
| 3500                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.02             |                                                                                     |              |
| 4000                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.03             |                                                                                     |              |
| All measurements are delivered or derived delivered lumens at 3000k . For other CCTs use the following multipliers: 2700 - 0.95, 3500 - 1.02, 4000, 1.03. Values are based on a single head Core 4" square wall wash (CR4WW-SF). Multiple heads will deliver more light and will need to be accounted for individually in calculations. Ambient Dim measured at full output.*C28 requires active cooling and NIC housing |                  |                                                                                     |              |



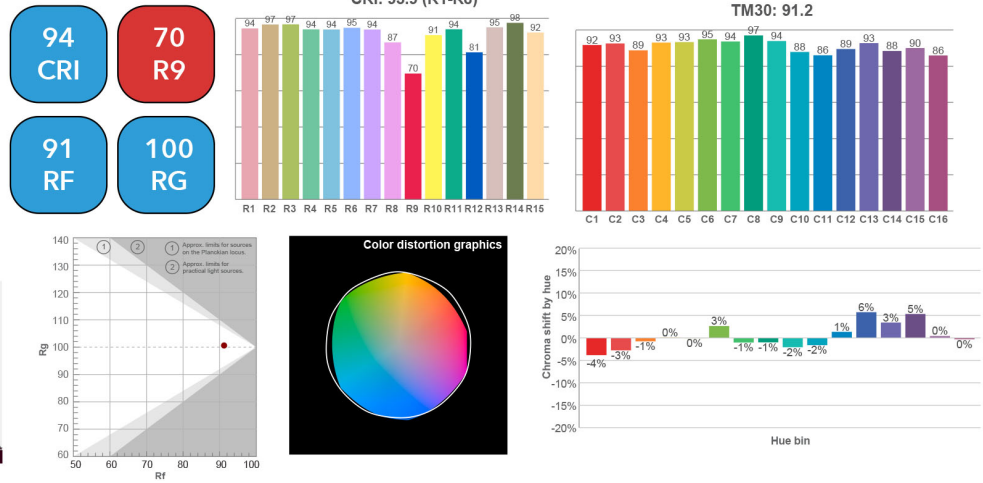


## Color Data

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

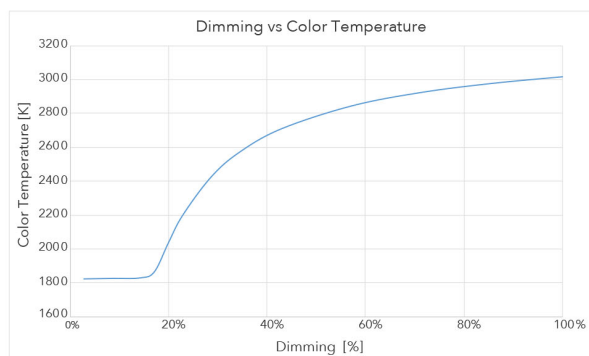
### Citizen Sources for C14, 20 and C28

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

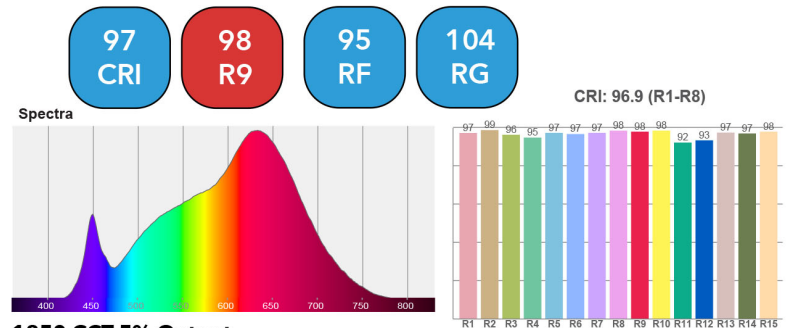


### Ambient Dim 3000k to 1900k

- <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

