

Scope Wonder

Ever wonder where light is coming from? Scope Wonder Downlight epitomizes this phenomena featuring super low UGR (glare) values. This fixture is designed not to be seen! The 3" offering provides an incredibly wide selection of finishes, mounting options and sources and technology including the release of our INK tunable white source in 2 dynamic ranges.

PROJECT:

TYPE:

SPECIFIER:

DATE:

Key Points (SCW3D-S)

Trim

- Machined aluminum Body in USA
- 4 trim bezel color options
- 40 flange color options + custom RAL
- Flange or flangeless

Source / Optics

- UGR values <= 13 (considered excelent)
- Field changable optics
- 3 beam spreads - 20°, 24° and 38°
- Up to 1479 delivered lumens
- <2 MacAdams Ellipses (<2 SDCM)
- 90+ CRI, 60+ R9 Standard; 95+ CRI, 90+ R9 available with Ambient Dim option
- 2700K, 3000K, 3500K, 4000K, Ambient Dim (1900K to 3000K) and Tunable White with 2 available ranges (1800 to 4000K and 2700 to 6500K)

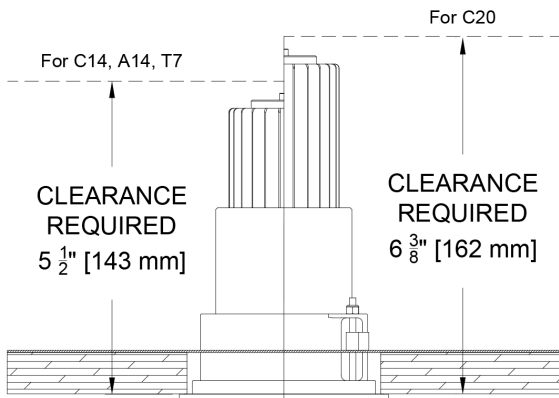
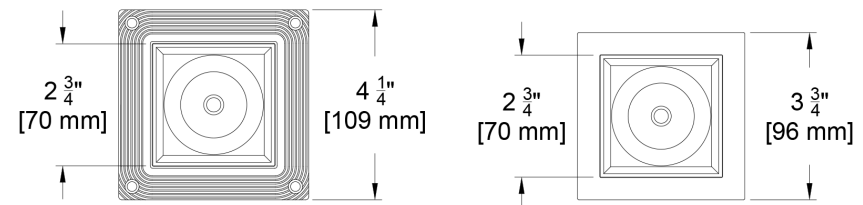
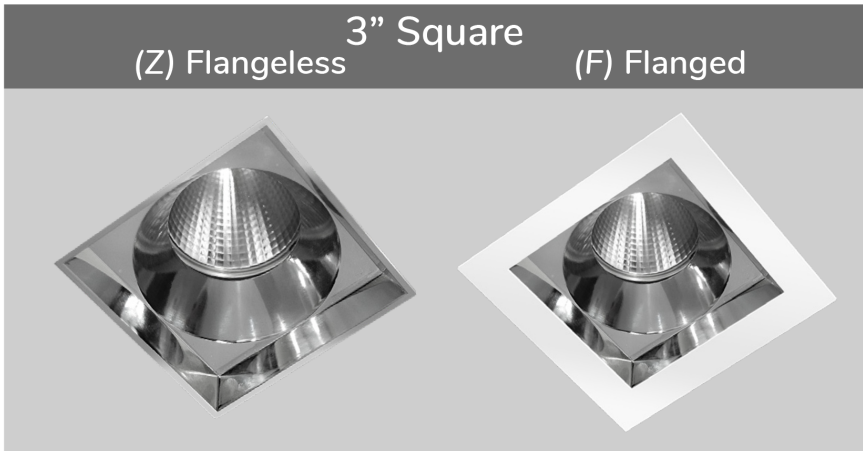
- **TITLE 24** Source supports California Tilt 24 Requirements to JA8
- Lifetime: L87B3>55,000 hours at 40°C Ambient (for fixed white)

Housing

- Remodel or millwork option available
- **TITLE 24** IC Rated / airtight housing approved for use in direct contact with insulation, Chicago Plenum Available and meets CA Title 24
- 2 pan options IC rated for use in direct contact with insulation (not for spray foam)

Driver And Control

- Drivers are integral with fixtures unless noted as remote mount with * in ordering code options. "K can" type drivers do not fit through the 3" hole
- TruPhase™, 0-10, DALI-2, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015 available with EldoLED and TruPhase™ selections
- Universal 120-277v








Square Standard Size (Z)
(See page 4 for Details)

| SQUARE Beamspreads | | 20° | | | | | 24° | | | | | 36° | | | | |
|----------------------|------------------|-----------------------|--------------|-----|-----------|-----------|-----------------------|--------------|-----|-----------|-----------|-----------------------|--------------|-----|-----------|-----------|
| Source | System watts (W) | Delivered Lumens (lm) | Lumens/ Watt | UGR | Peak (fc) | 10% Field | Delivered Lumens (lm) | Lumens/ Watt | UGR | Peak (fc) | 10% Field | Delivered Lumens (lm) | Lumens/ Watt | UGR | Peak (fc) | 10% Field |
| Citizen C14 | 14 | 1078 | 77 | 12 | 6599 | 40° | 1013 | 72 | 12 | 5501 | 42° | 1075 | 77 | 13 | 3375 | 49° |
| Citizen C20 | 21 | 1479 | 70 | 13 | 9257 | 40° | 1389 | 66 | 13 | 7576 | 41° | 1478 | 70 | 13 | 4633 | 49° |
| Ambient Dim A14 | 15 | 750 | 51 | 13 | 5586 | 38° | 668 | 46 | 12 | 4240 | 39° | 739 | 51 | 13 | 2949 | 46° |
| Tunable White - 1840 | 10 | 491 | 52 | 13 | 2967 | 40° | 466 | 49 | 13 | 2374 | 42° | 490 | 52 | 12 | 1525 | 48° |
| Tunable White - 2765 | 10 | 640 | 67 | 11 | 3786 | 41° | 595 | 63 | 7 | 3060 | 42 | 649 | 68 | 10 | 1953 | 49° |

Ordering Codes

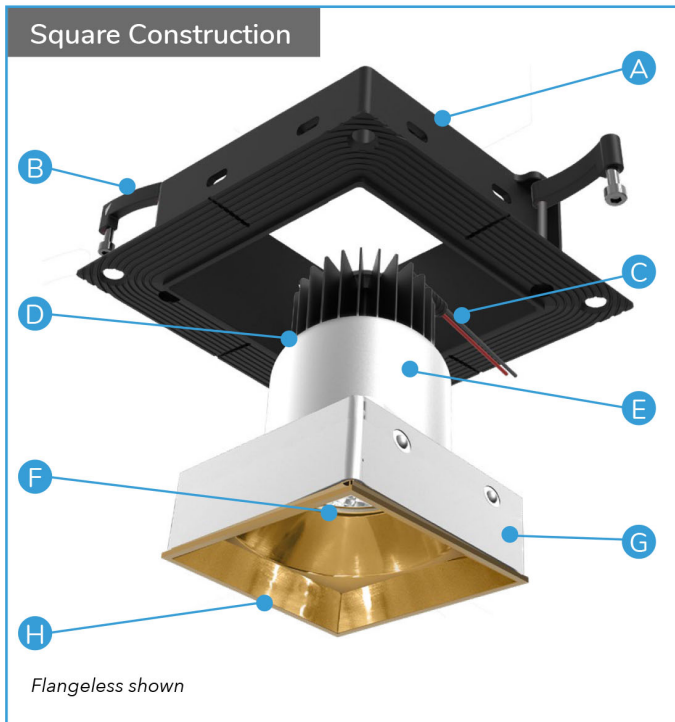
PROJECT: SPECIFIER:
DATE: TYPE: QUANTITY:

Ordering Code Example: SCW3D-S-Z-BP-A14-AD-36-E2-V01-A01

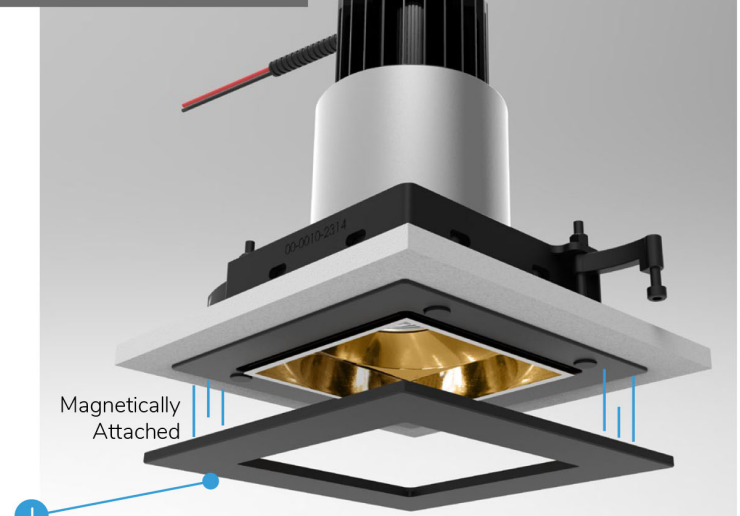
| FIXTURE | TRIM | MOUNTING | SOURCE / WATTS | CCT | BEAM | DRIVER / CONTROL | BEZEL FINISH | TRIM FINISH | ACCESSORIES |
|------------------------------------|---|--|--|--|---|---|---|--|---|
| SCW3D-S | | | | | | | | | |
| Scope Wonder 3" Downlight - Square | F Flanged Trim Z Flangeless Trim | NP New Pan (IC rated) for Mounting to bottom of studs^ BP Bracket Pan (IC Rated) for mounting with hanger bars to studs or T-bar^ AT ●● Airtight Housing* PM Panel Mount§ RM Remodel mounts direct to ceiling - Wing Springs for flanged and drywall anchors for flangeless ●● Supports CA Title 24 Compliance to JA8 Requirements * Chicago Plenum available with AT ^ Not Airtight, Not for use with spary foam § Must be used with flangeless trims. | Citizen C14 ●● 14W 1078Lm* 90+CRI, 60+R9 C20 ●● 21W 1479Lm* 90+CRI, 60+R9 Ambient Dim™ A14 ●● 15W 750Lm* 95+CRI, 90+R9 3000 to 1900K Ink™ T7 ●● 10W 640Lm^^ 90+CRI, 70+R9 Tunable White+ ●● Supports CA Title 24 Compliance to JA8 Requirements * Based on 20° beam ^ Based on 2765 CCT measurement +LTT or EdoLED driver selection required and will be supplied with 2 Channel version | 27 2700K 30 3000K 35 3500K 40 4000K Ambient Dim™ AD 1900-3000K Ink™ 1840 1800-4000K Tunable White 2765 2700-6500K Tunable White | 20 Spot 24 Narrow Flood 36 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 LD Digital Ecosystem* 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1 TR2 TruPhase™ 0.1%, (100-277V) Up to 20W Forward and Reverse compatible Phase Dimming 2 Dimming Curves: Linear/Logarithmic Static White & Ambient Dim only * Requires remote mounting | V01 Clear Metalize V02 Black Metalize V03 Champagne Metalize V04 Gold Metalize *See Finish Guide  | A32 Clear Anodize A01 Black Anodize W White Paint C Custom/RAL Color*  AXX Specialty anodize color*  PXX Specialty Paint Color*  K Blank for use with Flangeless or Panel Mount  *See Finish Guide | CP Chicago Plenum EM Emergency Pack Controls LR Lutron Wireless RF PowPak ATH Lutron Athena Wireless Node <i>Must be used with E2 driver (DALI-2)</i> CA Casambi Wireless BLE to be paired with driver |

Fixture Details

Receiver with integral plaster/trim attaching flange mounts to pan or housing with ceiling clamp. Body assembly attaches to receiver with ball plungers. Trim Flange (F option) attaches to receiver with magnets

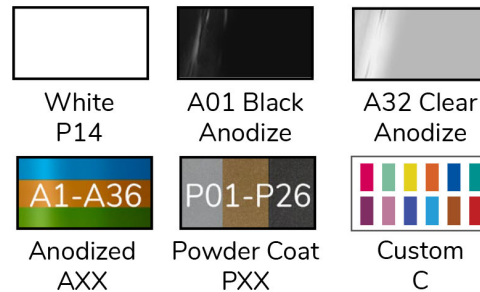


Flanged Trim Option

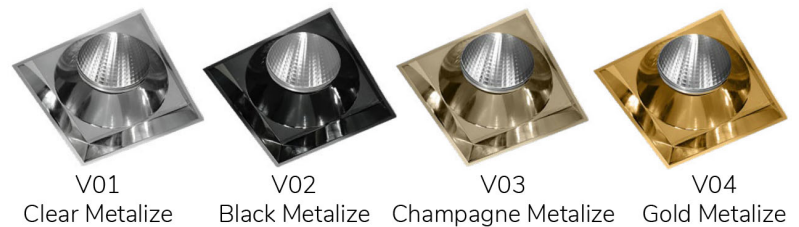


Flanged Finish Options

Black Anodize Flange Trim (A01) with Gold Bezel (V04)(shown)

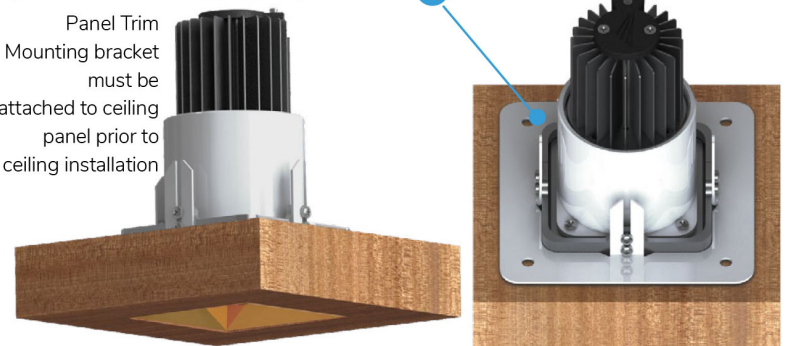


Trim Bezel Finish Options



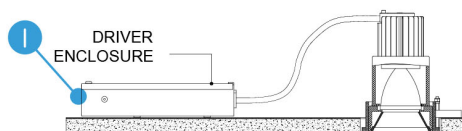
Panel Trim Option

Panel Trim Mounting bracket must be attached to ceiling panel prior to ceiling installation



Square Assembly Specs

- A Receiver – High Grade Aluminum precision machined in U.S.A. with integral mud flange
- B Ceiling Clamp- Inserts into ceiling and automatically spreads during installation
- C 22AWG wire to Driver. Enclosed in flexible conduit connected to driver enclosure.
- D Thermal management system and body. High grade anodized aluminum, precision machined in the U.S.A.
- E LED Assembly- Field serviceable as part of thermal management system
- F Relector optic- Field changeable
- G Bezel holder- Precision machined in the U.S.A. with ball stud attachment feature for solid locking and field service
- H Trim Bezel, Molded Polycarbonate finished with 4 color options
- I Integral driver and enclosure – UL approved for IC-serviceable from below the ceiling
- J Finish Trim Flange magnetically attached (flange option)
- K Receiver and mounting bracket for Panel Trim/ millwork wood ceiling

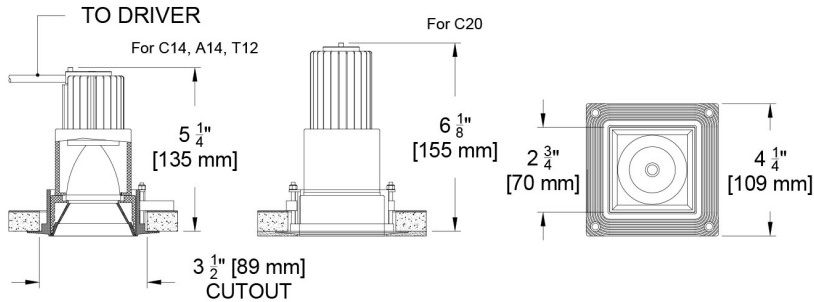


Ceiling Cutouts and Dimensions

Square New or Bracket Pan

Flangeless Trim (Z)

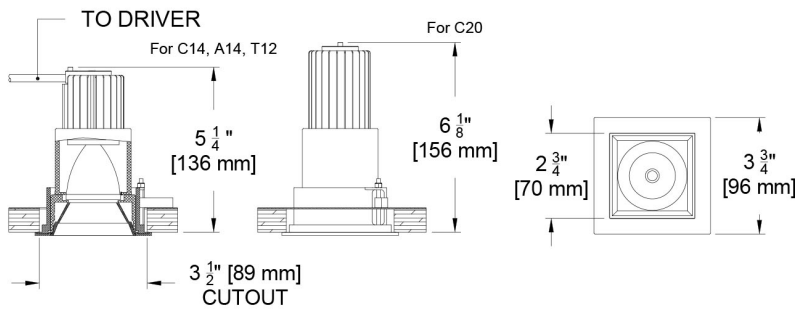
(SCW3D-S-Z-BP / NP-)



Square New or Bracket Pan

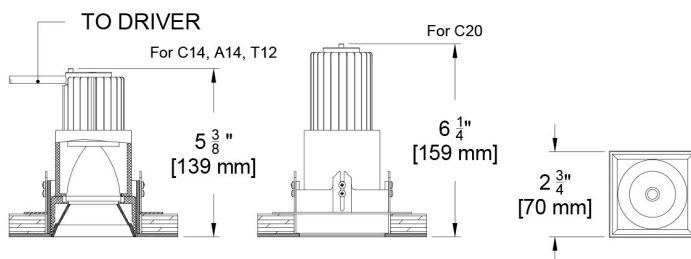
Flanged Trim (F)

(SCW3D-S-F-BP / NP-)



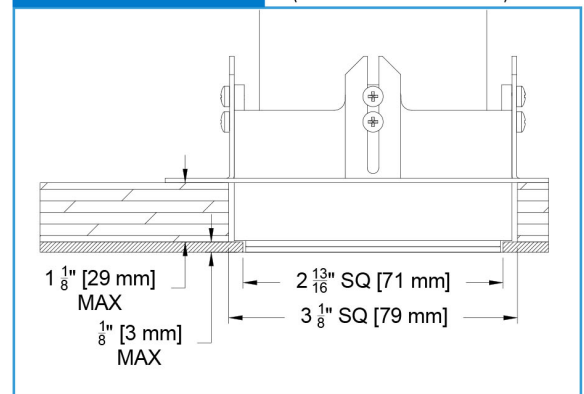
Square Panel Mount

(SCW3D-S-F-PM-)



Panel Mount Detail

(SCW3D-S-Z-PM-)

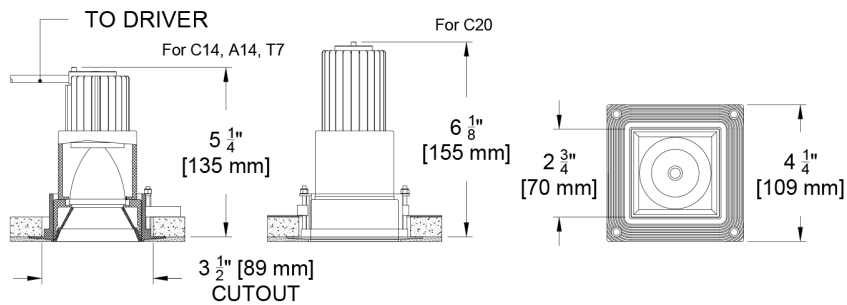


Ceiling Cutouts and Dimensions

Square Remodel

Flangeless Trim (Z)

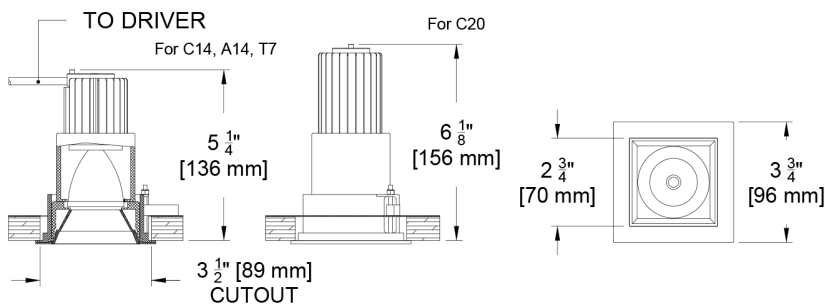
(SCW3D-S-Z-RM-)



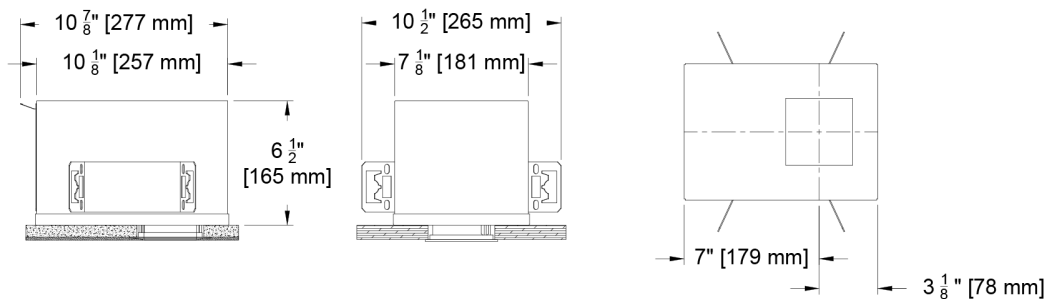
Square Remodel

Flanged Trim (F)

(SCW3D-S-F-RM-)

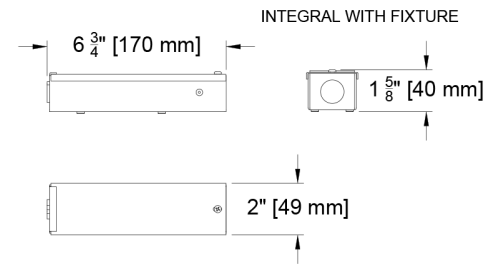


Square Airtight (AT)



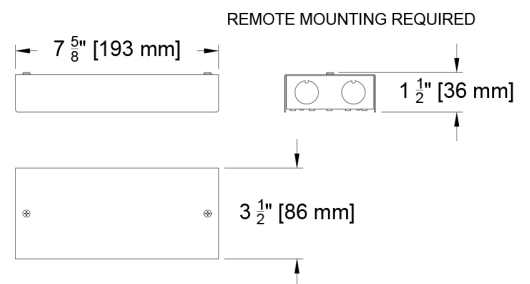
Driver Enclosure

for C1, C2 TR2



Driver Enclosure

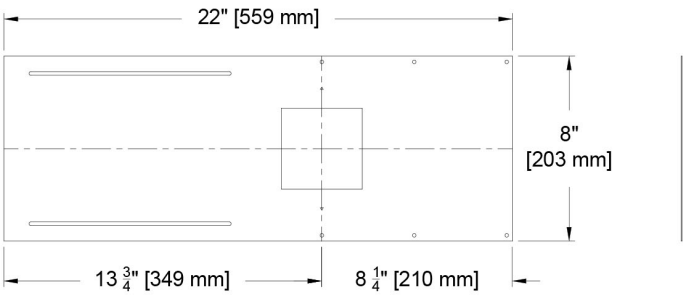
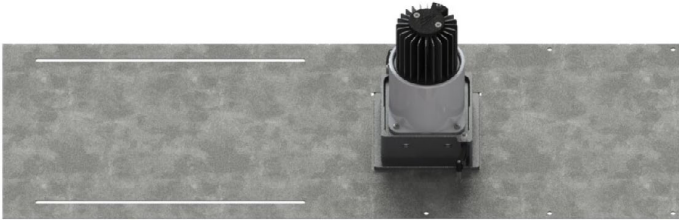
for E1, E2, E3, E4, LD



Mounting Options

New Pan (SCW3D-S-X-NP)

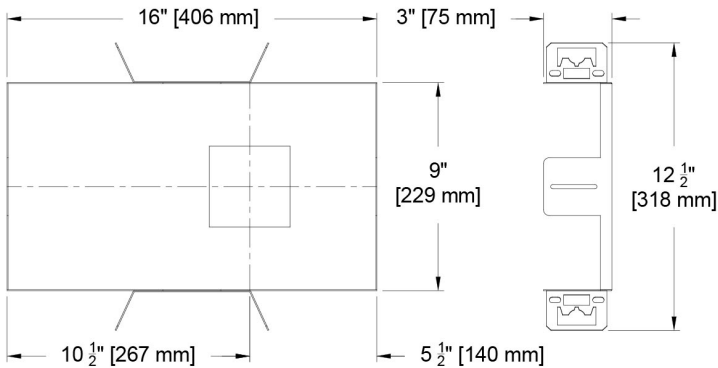
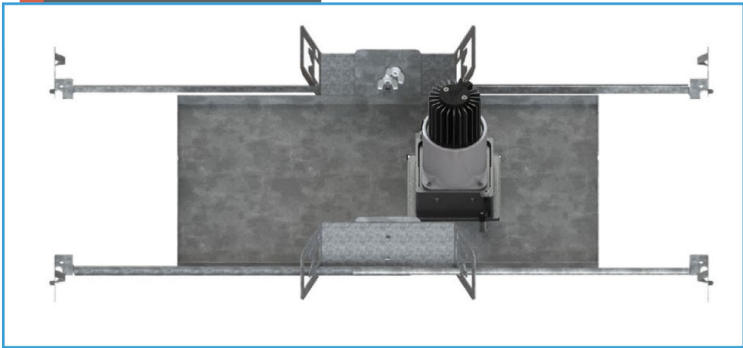
For new construction and attachment to bottom of studs



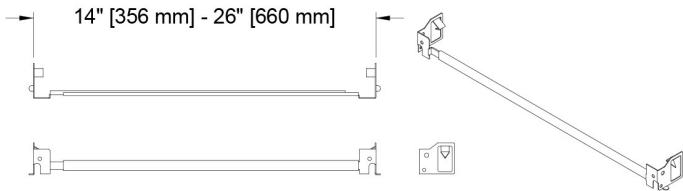
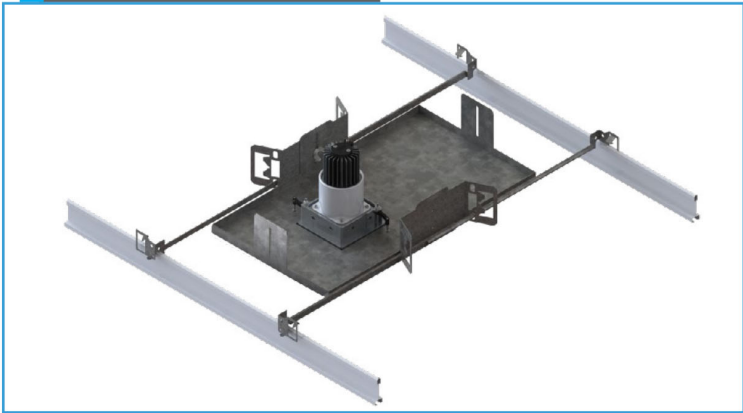
Bracket Pan (SCW3D-S-X-BP)

For new construction using hanger bars for attaching to studs or drop ceiling

Option 1- Attaching to Studs



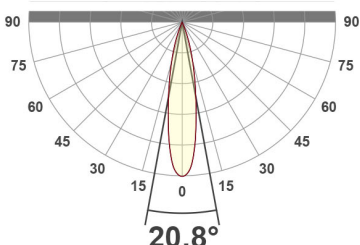
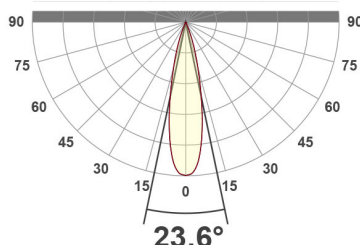
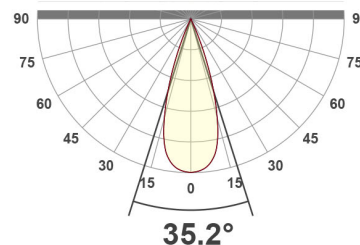
Option 2- Attaching to Drop Ceiling



Note: For panel trim mounting see page 3 for picture of detail or refer to installation instructions

Photometric Table

All data below are delivered lumens based on goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range.

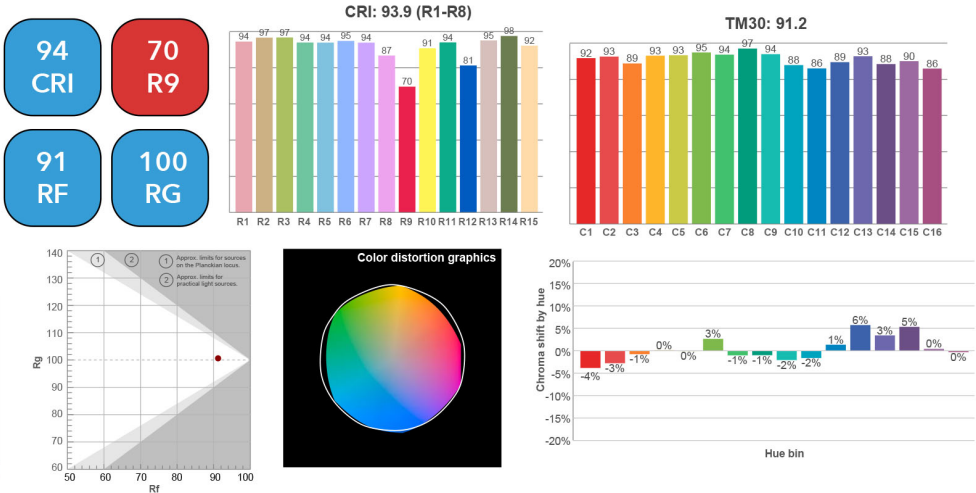
| SQUARE Beamsreads | | 20° | | | | | | 24° | | | | | | 36° | | | | | |
|---|------------------|--|--------------|-----|-----------|-----------|-----------------------|---|-----|-----------|-----------|-----------------------|--------------|--|-----------|-----------|--|--|--|
| Source | System watts (W) | Delivered Lumens (lm) | Lumens/ Watt | UGR | Peak (fc) | 10% Field | Delivered Lumens (lm) | Lumens/ Watt | UGR | Peak (fc) | 10% Field | Delivered Lumens (lm) | Lumens/ Watt | UGR | Peak (fc) | 10% Field | | | |
| Citizen C14 | 14 | 1078 | 77 | 12 | 6599 | 40° | 1013 | 72 | 12 | 5501 | 42° | 1075 | 77 | 13 | 3375 | 49° | | | |
| Citizen C20 | 21 | 1479 | 70 | 13 | 9257 | 40° | 1389 | 66 | 13 | 7576 | 41° | 1478 | 70 | 13 | 4633 | 49° | | | |
| Ambient Dim A14 | 15 | 750 | 51 | 13 | 5586 | 38° | 668 | 46 | 12 | 4240 | 39° | 739 | 51 | 13 | 2949 | 46° | | | |
| Tunable White - 1840 | 10 | 491 | 52 | 13 | 2967 | 40° | 466 | 49 | 13 | 2374 | 42° | 490 | 52 | 12 | 1525 | 48° | | | |
| Tunable White - 2765 | 10 | 640 | 67 | 11 | 3786 | 41° | 595 | 63 | 7 | 3060 | 42 | 649 | 68 | 10 | 1953 | 49° | | | |
| CCT Multiplier | | <div>Beam angle</div>  <div>20.8°</div> | | | | | | <div>Beam angle</div>  <div>23.6°</div> | | | | | | <div>Beam angle</div>  <div>35.2°</div> | | | | | |
| CCT | Citizen | | | | | | | | | | | | | | | | | | |
| 2700 | 0.95 | | | | | | | | | | | | | | | | | | |
| 3000 | 1.00 | | | | | | | | | | | | | | | | | | |
| 3500 | 1.02 | | | | | | | | | | | | | | | | | | |
| 4000 | 1.03 | | | | | | | | | | | | | | | | | | |
| All measurements are delivered lumens based on 3000K unless otherwise noted below. Ambient Dim measured at full output. Tunable White measurements at mid-point CCT of range (2700K for TW18 and 4500K for TW27 source). ISO CD Plots based on C20 Source. UGR values based on 4H 3H row. | | | | | | | | | | | | | | | | | | | |

Color Data

Color and flux information based on goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated data range as listed on their datasheet. See specific PDF photometric reports found in the photometric dropdown in the product landing page for more specific color information.

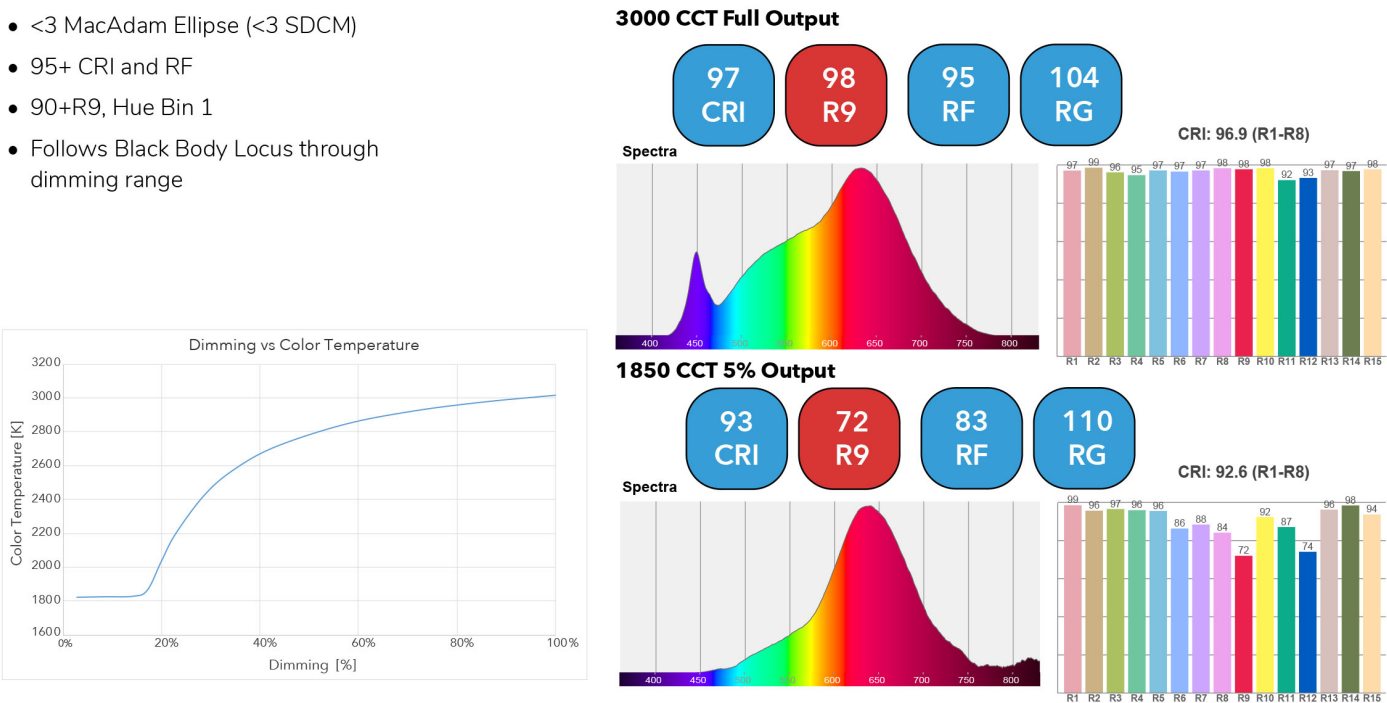
Citizen Source C14, C20

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




Ambient Dim Source A14 (AD - 3000k to 1900k)

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

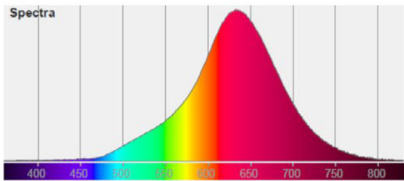


Tunable White source T7 - CCT 1840 (1800k to 4000k)

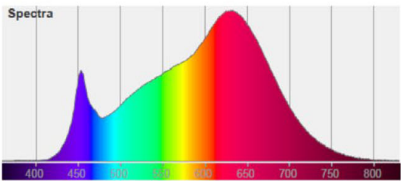
- <3 MacAdam Ellipse (<3 SDCM)
- 94 CRI average across all CCTs
- 76 R9 average across all CCTs
- Available with wired or wireless control

| | | | | | | | |
|---|----------------------------|------|------|------|------|------|------|
|  | TUNABLE WHITE - 1800-4000K | | | | | | |
| Color Temp | 1800 | 2200 | 2500 | 2700 | 3000 | 3500 | 4000 |
| System Watts | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Delivered Lumens | 379 | 433 | 468 | 491 | 539 | 571 | 571 |
| Luminaire Efficiency | 40 | 46 | 49 | 52 | 57 | 60 | 60 |
| Flux and Color data based on 20° measurement at 2700k. All other values are extropolated from actual and analytical tests | | | | | | | |

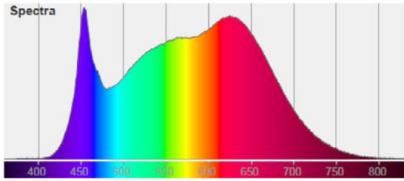
Spectral Power Distributions at all listed CCTs available upon request



1800K



3000K



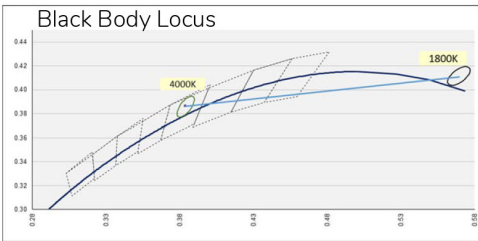
4000K

94
CRI

76
R9

89
RF

97
RG

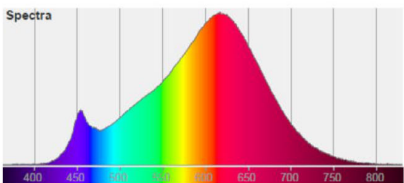


Tunable White source T7 - CCT 2765 (2700k to 6500k)

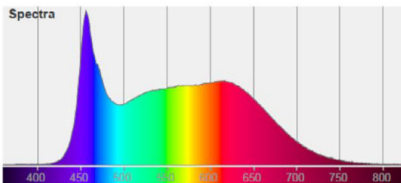
- <3 MacAdam Ellipse (<3 SDCM)
- 94 CRI average across all CCTs
- 96 R9 average across all CCTs
- Available with wired or wireless control

| INK | TUNABLE WHITE - 2700-6500K | | | | | | | | | |
|---|----------------------------|------|------|------|------|------|------|------|------|------|
| | Color Temp | 2700 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 |
| | System Watts | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | Delivered Lumens | 602 | 620 | 640 | 640 | 640 | 639 | 638 | 636 | 644 |
| | Luminaire Efficiency | 63 | 65 | 67 | 67 | 67 | 67 | 67 | 67 | 68 |
| Flux and Color data based on 20° measurement at 4500k. All other values are extrapolated from actual and analytical tests | | | | | | | | | | |

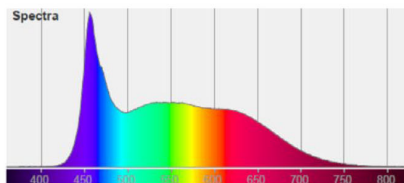
Spectral Power Distributions at all listed CCTs available upon request



2700K



5000K



6500K

96
CRI

96
R9

91
RF

99
RG

