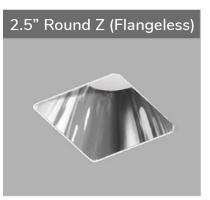
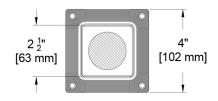
# specialty lighting industries

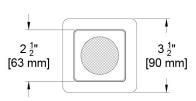
# Scope Original

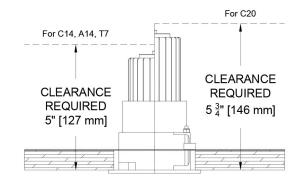
The Scope Original is a small aperture downlight family used to great acclaim in thousands of projects over the last 20 years. We have expanded this offering with new mounting options, a large selection of source technology and control options. This modifiable fixture has over 40 finish options including a wood trim selection. You have found the Square Downlight Datasheet and we hope you enjoy the details.











#### PROJECT: TYPE:

SPECIFIER: DATE:

#### Key Points (SCOD-S)

#### Trim

- · Machined aluminum body in USA
- Wood trim bezel available on Flangeless option
- 40 color options + custom RAL available for trim flange and bezel.
   Finishes can be mixed and matched
- Flange or flangeless

#### Source / Optics

- 3 beam spreads 15°, 22° and 36°
- Up to 1304 delivered lumens
- <2 MacAdams Ellipses (<2 SDCM)</li>
- 90+ CRI, 60+ R9 Standard, 95+ CRI, 90+ R9 available with Ambient Dim option
- 2400K, 2700K, 3000K, 3500K, 4000K
   Ambient Dim and Tunable White Options Available
- Source supports California Tilte 24 compliance to JA8 requirements except for T7-1840 tunable white source
- Lifetime: L87B3>55,000 hours at 40° C ambient for fixed white

#### Housing

- 2 pan options, IC / Airtight rated for use in direct contact with insulation (not for spray foam)
- Sisted for damp location wet rating with Shower Trim selection
- IC Rated / airtight housing approved for use in direct contact with insulation Chicago Plenum Available and suports CA Title 24 compliance
- Remodel or millwork option available

#### **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 2.5" hole
- Phase, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015 available
- Universal 120-277v

# 2.5" Aperture Options Deep Regress (DR) Wood Available (WD)

| PERFORMANCE SUMMARY CHART |       |      |         |                 |      |  |  |  |  |
|---------------------------|-------|------|---------|-----------------|------|--|--|--|--|
|                           | CITIZ | ŒN.  | TUNABLE | AMBIENT<br>DIM® |      |  |  |  |  |
| Source                    | CZ14  | CZ20 | T7      | T7              | AD14 |  |  |  |  |
| CCT (color tune)          |       |      | 1840    | 2765            | 3019 |  |  |  |  |
| Delivered Lumens          | 985   | 1340 | 418     | 513             | 680  |  |  |  |  |
| Watts                     | 14    | 20   | 10      | 10              | 15   |  |  |  |  |
| Fixture Efficacy<br>(LPW) | 70    | 67   | 42      | 51              | 45   |  |  |  |  |

Data based on  $22^\circ$  beam at 3000k. Tunable white at mid-point CCT. Ambient Dim at full output Tunable White 1840 does not meet Title 24 JA8 efficacy requirements

### Scope O 2.5" Square Downlight (64mm)

Formerly known as 4509 Fixed Recessed Accent Light



# **Ordering Codes**

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: SCOD-S-F-NP-C20-30-22-C1-A32-A32-91L

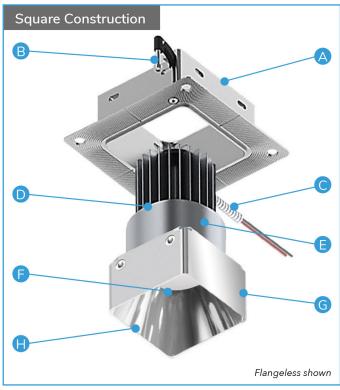
| Ordering Coc                           | ле ⊏хаптріе.   | 3COD-3-F-I  | NP-C20-30-22-C   | 1-A32-A32-   | 91L   |   |   |   |  |  |
|--|--|---|--|--|---|---|---|---|--|--|
| FIXTURE                                | TRIM   | MOUNTING  | SOURCE / WATTS   | ССТ  | BEAM  | DRIVER / CONTROL  | BEZEL FINISH  | TRIM FINISH   | LENS<br>ACCESSORIES  | ACCESSORIES  |
| SCOD-S                                 |  |   |  |  |   |   |   |   |  |  |
| Scope Original 2.5" Downlight - Square | F Flanged Trim  Z Flangeless Trim  FS Flanged Shower Trim*  ZS Flangeless Shower Trim*  *Requires aperature lens selection for wet listing | NP New Pan (Ic/Airtight) for Mounting to bottom of wood studs^  BP Bracket Pan (Ic/Airtight) for mounting with hanger bars to studs or T-bar^ Art Art Airtight / IC Housing*  PM Panel Mount §  RM Remodel mounts direct to ceiling - Wing Springs for flanged and drywall anchors for flangeless  Supports CA Title 24 compliace to JA8 requirements  * Chicago Plenum available with AT  *Not for use with spray foam insulation  § Must be used with flangeless trims. | Citizen  C14  14W 985Lm* 90+CRI, 60+R9  C20  134U 1340Lm* 90+CRI, 60+R9  Tunable  T1  10W 90+CRI, 60+R9  Tunable White  T20  15W 90+CRI, Tunable White  Ambient DimTM  A14  15W 95+CRI, A20  21W 858Lm 95+CRI, 90+R9  CA Title 24 Compliant  * Based on 22° Beam **1840 CCT does not meet Title 24  ^Based on 2765 CCT +LTT or EldoLED driver selection required and will be supplied with 2 Channel version | 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  Ambient DimTM  2722* 2700-2200K *A14 Only 3019 3000-1900K 3022 * 3000-2200K *A14 Only * Not compliant with California Title 24 | 15<br>Spot<br>22<br>Narrow Flood<br>36<br>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 0THERS Lutron  LD Digital Ecosystem* 1.0%, UNV (120-277V) ECO Hi-Lume SoftOn/Fade-to-Black LDE1 * Requires remote mounting | A01 Black Anodize  A32 Clear Aluminum Anodize  AXX Other Anodize colors*  A1-A36  D Wood**  PXX Specialty Paint Color*  P01-P15  C Custom/RAL Color*  *See Finish Guide **See Wood Guide  VOOD TRIM GUIDE | A01 Black Anodize  A32 Clear Aluminum Anodize  AXX Specialty anodize color*  A1-A36  W White Paint  C Custom/RAL Color*  P01-P15  C Custom/RAL Color*  K Blank for use with Flangeless or Panel Mount  *See Finish Guide "See Wood Guide  FINISH GUIDE LINK | Reflector (lamp) Media 91L Solite 92L Supertex (spreader lens) 97L Black Hexcel Louver XXL Other reflector (lamp) media* * See Lens Accessory Guide LENSORY ACCESSORY LINK | CP Chicago Plenum  EM Emergency Pack  Controls  LR Lutron Wireless RF PowPak  ATH Lutron Athena Wireless Node Must be used with E2 driver (DALI-2)  CA Casambi Wireless BLE to be paired with driver |

Formerly known as 4509 Fixed Recessed Accent Light

# specialty lighting industries

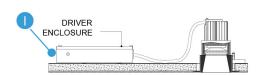
## **Fixture Details**

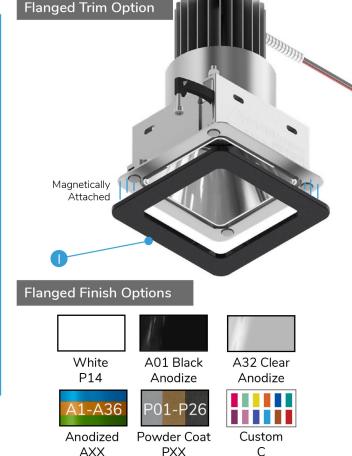
Machined receiver with integral trim holder / plaster flange attaches to pan or housing with ceiling clamps. Light engine and trim bezel attaches to receiver with ball plungers





- A Receiver High Grade Aluminum precision machined in U.S.A. with integral flange
- Ceiling Clamp- Inserts into ceiling and automatically spreads during installation
- 22AWG wire to Driver. Enclosed in flexible conduit connected to driver enclosure.
- Thermal management system and body. High grade anodized aluminum, precision machined in the U.S.A.
- LED Assembly- Field serviceable as part of thermal management system (not shown)
- Relector optic- Field changeable
- 6 Bezel holder- Precision machined in the U.S.A. with ball stud attachment feature for solid locking and field service
- Trim Bezel, Molded Polycarbonate finished with 4 color options
- Integral driver and enclosure UL approved for IC-serviceable from below he ceiling
- Finish Trim Flange magnetically attached (flange option)
- Receiver and mounting bracket for Panel Trim/ millwork wood ceiling





Trim Bezel Finish Options

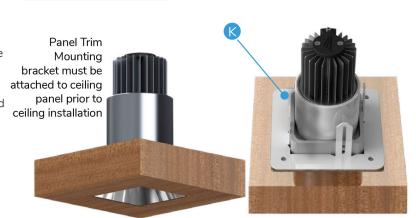
Clear

A32

Black

A01

**Panel Trim Option** 



Anodized

AXX

Powder Coat

PXX

Custom

C

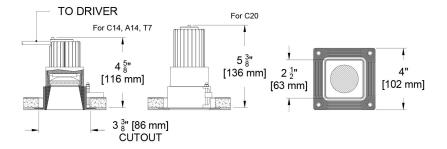


# Ceiling Cutouts and Dimensions

#### Square New or Bracket Pan

FlangelessTrim (Z

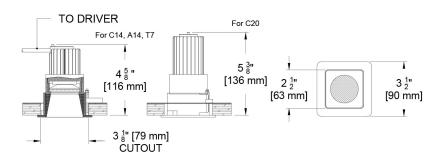
(SCOD-S-DR-Z-BP/NP-)



#### Square New or Bracket Pan

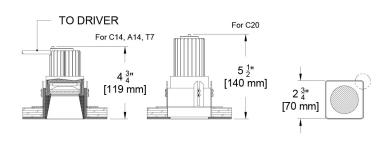
Flanged Trim (F)

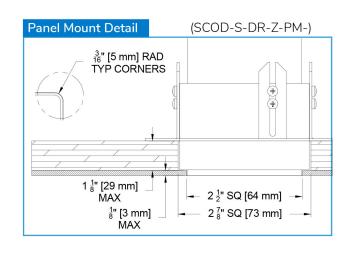
(SCOD-S-DR-F-BP/NP-)



#### **Square Panel Mount**

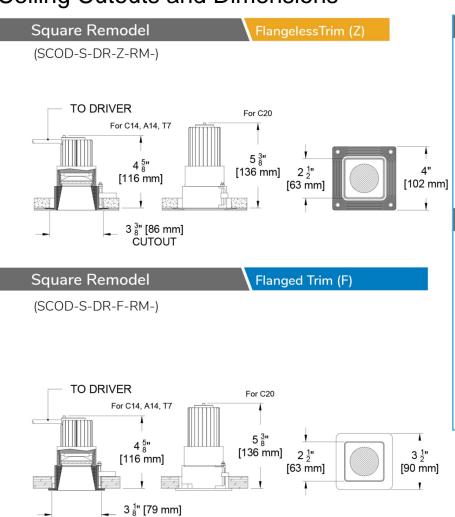
(SCOD-S-DR-Z-PM-)

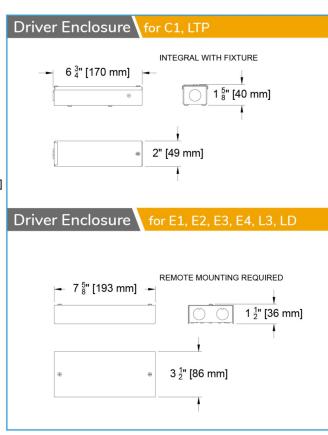






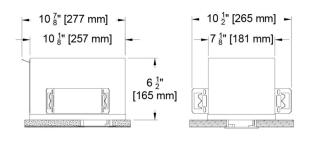
# Ceiling Cutouts and Dimensions



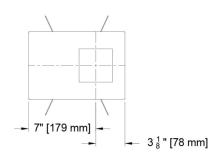


## Square Airtight (AT)

(SCOD-S-DR-\_-AT-)



**ČUTOUT** 

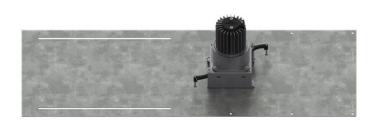


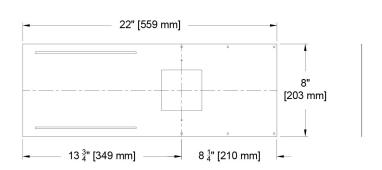


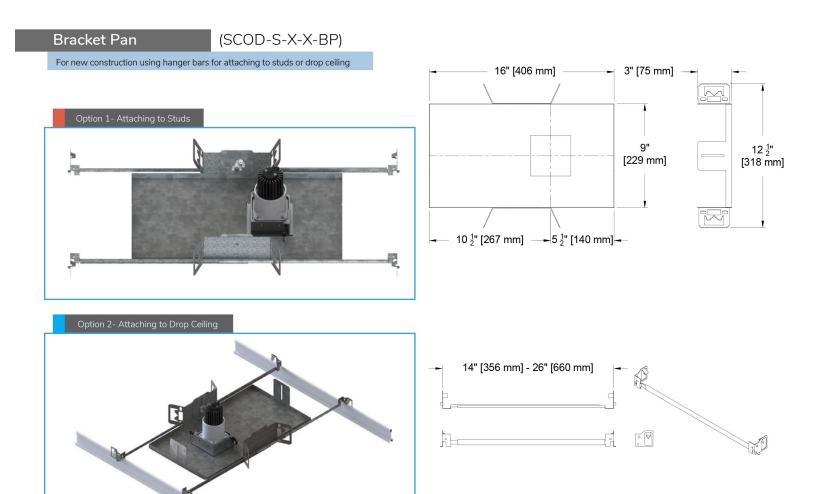
# **Mounting Options**

New Pan (SCOD-S-X-X-NP)

For new construction and attachment to bottom of studs







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



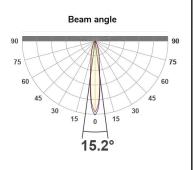
# Photometric Table

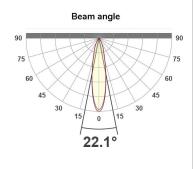
All data below are delivered lumens based on goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range.

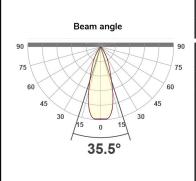
| SQUARE Beamspreads 10° |                    |                        | 20°                              |                 |     |            | 30°          |                                  |                 |     |            |              |                                  |                 |    |            |              |
|------------------------|--------------------|------------------------|----------------------------------|-----------------|-----|------------|--------------|----------------------------------|-----------------|-----|------------|--------------|----------------------------------|-----------------|----|------------|--------------|
|                        |                    | System<br>watts<br>(W) | Deliv-<br>ered<br>Lumens<br>(lm) | Lumens/<br>Watt | UGR | Peak<br>cd | 10%<br>Field | Deliv-<br>ered<br>Lumens<br>(lm) | Lumens/<br>Watt | UGR | Peak<br>cd | 10%<br>Field | Deliv-<br>ered<br>Lumens<br>(lm) | Lumens/<br>Watt |    | Peak<br>cd | 10%<br>Field |
| ις                     | Citizen C14        | 14                     | 947                              | 68              | 29  | 5411       | 45°          | 985                              | 70              | 29  | 3895       | 53°          | 870                              | 62              | 31 | 1786       | 70°          |
| gres                   | Citizen C20        | 21                     | 1304                             | 62              | 31  | 7266       | 46°          | 1340                             | 64              | 30  | 5371       | 53°          | 1294                             | 62              | 32 | 2703       | 69°          |
| . Re                   | Ambient Dim A14    | 15                     | 660                              | 45              | 28  | 4483       | 39°          | 680                              | 46              | 28  | 2934       | 50°          | 657                              | 45              | 29 | 1410       | 68°          |
| Deep                   | Tunable White 1840 | 10                     | 391                              | 39              | 22  | 2264       | 41°          | 418                              | 42              | 22  | 2007       | 45°          | 411                              | 42              | 24 | 892        | 67°          |
| Ĺ                      | Tunable White 2765 | 10                     | 501                              | 51              | 22  | 2885       | 41°          | 513                              | 52              | 22  | 2539       | 45°          | 526                              | 53              | 25 | 1182       | 67°          |
|                        |                    |                        |                                  |                 |     |            |              |                                  |                 |     |            |              |                                  |                 |    |            |              |

| CC1 Multiplier |         |  |  |  |  |  |  |
|----------------|---------|--|--|--|--|--|--|
| ССТ            | Citizen |  |  |  |  |  |  |
| 2700           | 0.95    |  |  |  |  |  |  |
| 3000           | 1.00    |  |  |  |  |  |  |
| 3500           | 1.02    |  |  |  |  |  |  |
| 4000           | 1.03    |  |  |  |  |  |  |
| AU 17          |         |  |  |  |  |  |  |

All Measurements are delivered lumens based on 3000K unless otherwise not-ed below. Ambient dim measured at full output. Tunable White measurements at mid-point CCT of range (2700k for 1840 and 4500k for 2765). UGR values based on 4H 3H table cell. Tunable White T7 - 1840 does not meet CA Title 24 JA8 efficacy requirements. 15° tunable white not recommended due to source imaging







Formerly known as 4509 Fixed Recessed Accent Light

# specialty lighting industries

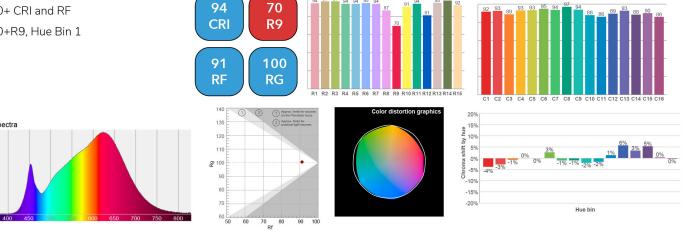
TM30: 91.2

## Color Data

All data below are delivered lumens. Color and flux information based on goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer rated nominal data as listed on their datasheet.

#### Citizen C20 and C14

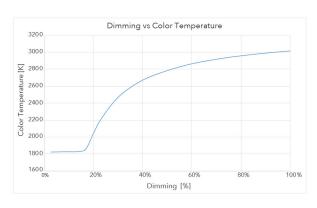
- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

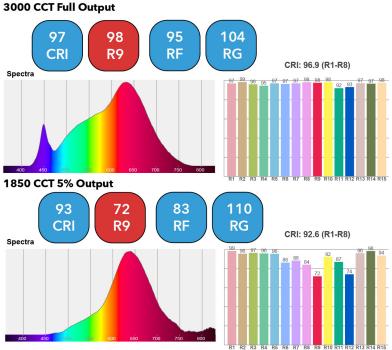


CRI: 93.9 (R1-R8)

#### 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

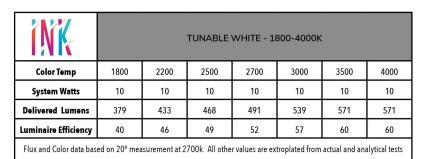




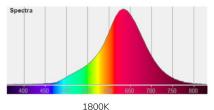


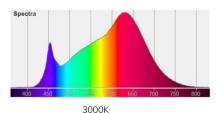
#### Tunable White 1800k to 4000k

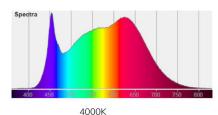
- <3 MacAdam Ellipse (<3 SDCM)
- 94 CRI average across all CCTs
- 76 R9 average across all CCTs
- Available with wired or wireless control

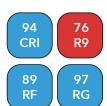


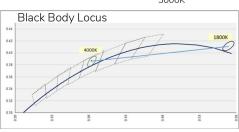
Spectral Power Distributions at all listed CCTs available upon request







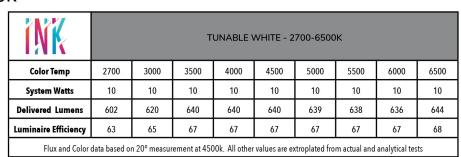






#### Tunable White 2700k to 6500k

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



Spectral Power Distributions at all listed CCTs available upon request

