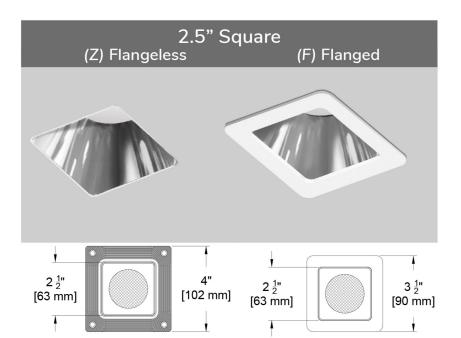
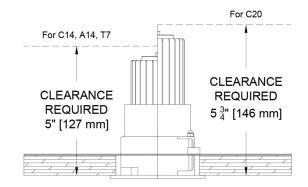
# specialty lighting industries

# 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)
- Substitute of the selection of the sel
- 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
- TruPhase™, 0-10, DALI-2, DMX, Ecosystem or Wireless Control
- Flicker free to IEEE 1789-2015 available with EldoLED and TruPhase™
- Universal 120-277v

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

PERFORMANCE SUMMARY CHART								
	CITIZ	ŒN.	TUNABLE	AMBIENT 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 (LPW)	70	67	42	51	45			

Data based on 22° 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 Code Example: SCOD-S-F-NP-C20-30-22-C1-A32-A32-91L										
FIXTURE	TRIM	MOUNTING	SOURCE / WATTS	ССТ	BEAM	DRIVER / CONTROL	BEZEL FINISH	TRIM FINISH	LENS 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^  AT 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  21W 1340Lm* 90+CRI, 60+R9  Tunable  T7  10W 90+CRI, 60+R9  Tunable White  T20  21W 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 Dim™M  2722* 2700-2200K *A14 Only  3019 3000-1900K 3022 * 3000-2200K *A14 Only * Not compliant with California Title 24	15 Spot 22 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  E4 ^ DMX 0.1%, UNV (120-277V) Universal DMX Driver/Controller RGBW-DMX ^ INCLUDES DMX/RDM COMPATIBLE DRIVER WITH BUILT-IN DECODER - CONTROLLER BY 0.1%, (100-277V) Up to 20W Forward and Reverse compatible Phase Dimming 2 Dimming Curves: Linear/Logarithmic Static White & Ambient Dim only  LD Digital Ecosystem* 1.0%, UNV (120-277V) ECO Hi-Lurne SoftOn/Fade-to-Black LDE1 * Requires remote mounting	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  WOOD TRIM GUIDE	A32 Clear Aluminum Anodize  AXX Specialty anodize color*  A1-A36  W White Paint  PXX Specialty Paint Color*  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  LENS ACCESSORY 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

# specialty lighting industries

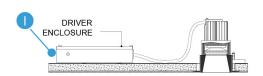
## **Fixture Details**

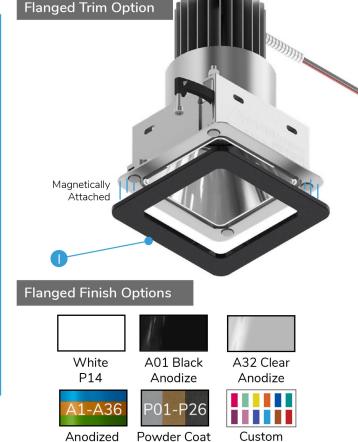
Machined receiver with integral trim holder / plaster flange attaches to pan or housing with ceiling clamps. Light engine and trim bezel attaches to receiver with ball plungers





- Receiver High Grade Aluminum precision machined in U.S.A. with integral flange
- B 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
- 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

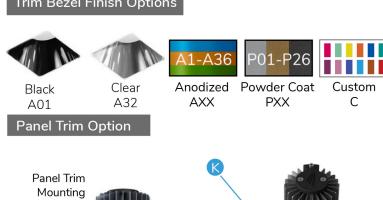




PXX

#### Trim Bezel Finish Options

AXX



C



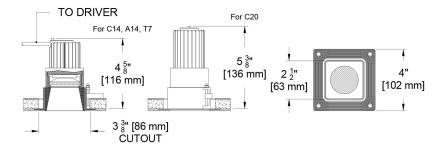


# Ceiling Cutouts and Dimensions

#### Square New or Bracket Pan

FlangelessTrim (Z

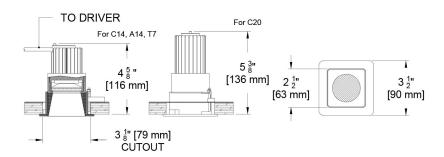
(SCOD-S-DR-Z-BP/NP-)



#### Square New or Bracket Pan

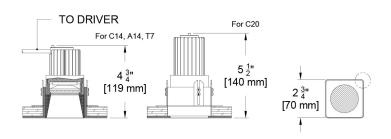
Flanged Trim (F)

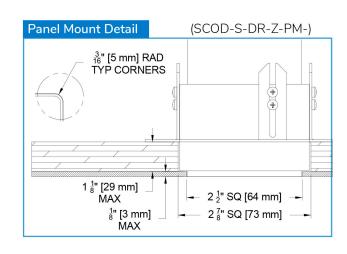
(SCOD-S-DR-F-BP/NP-)



#### **Square Panel Mount**

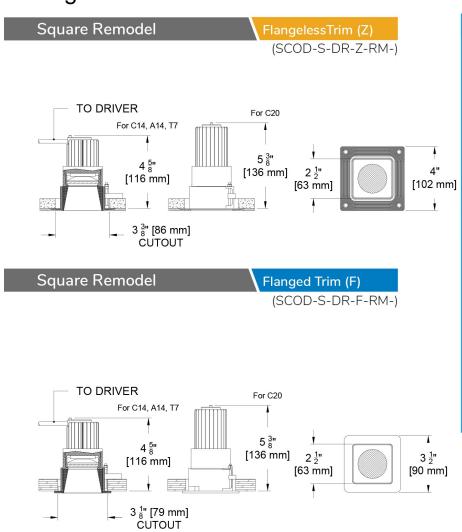
(SCOD-S-DR-Z-PM-)

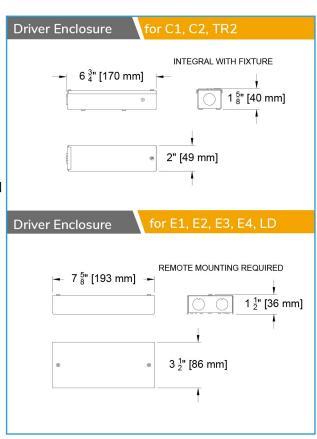






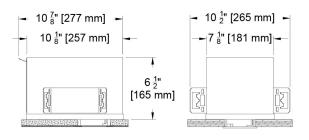
## Ceiling Cutouts and Dimensions

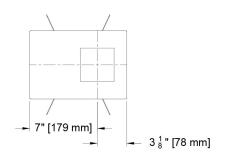




### Square Airtight (AT)

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

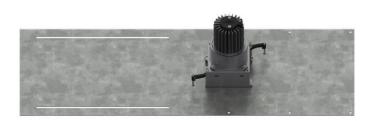


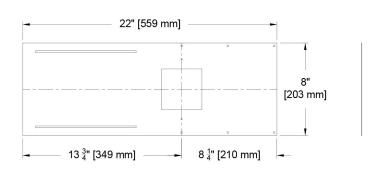


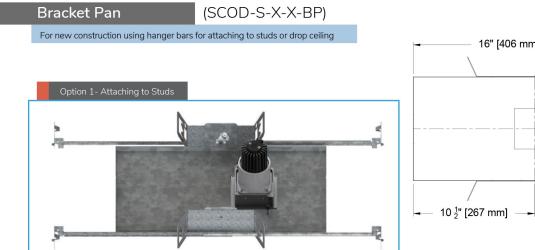


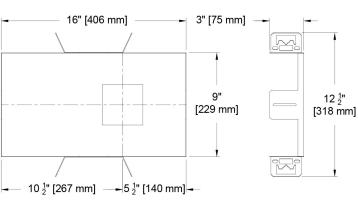
# **Mounting Options**

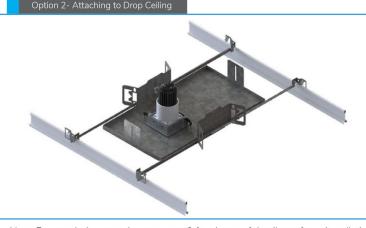


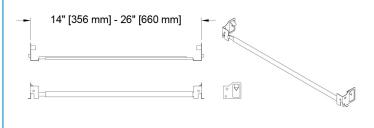












Note: For panel trim mounting see page 3 for picture of detail or refer to installation instructions



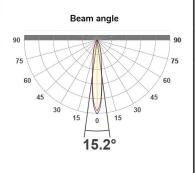
## Photometric Table

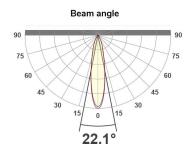
All data below are delivered lumens based on goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated flux range.

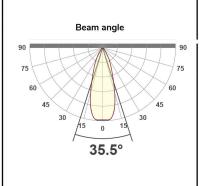
sq	SQUARE Beamspreads 10°				20°				30°								
		System watts (W)	Deliv- ered Lumens (lm)	Lumens/ Watt	UGR	Peak cd	10% Field	Deliv- ered Lumens (lm)	Lumens/ Watt	UGR	Peak cd	10% Field	Deliv- ered Lumens (lm)	Lumens/ Watt	UGR	Peak cd	10% Field
S	Citizen C14	14	947	68	29	5411	45°	985	70	29	3895	53°	870	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°
	Tunable White 2765	10	501	51	22	2885	41°	513	52	22	2539	45°	526	53	25	1182	67°
	CCT Multiplier																

CCT Multipliel						
ССТ	Citizen					
2700	0.95					
3000	1.00					
3500	1.02					
4000	1.03					
AULE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

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

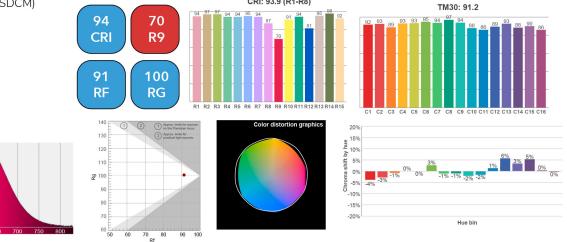
# specialty lighting industries

## 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

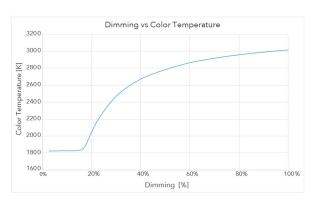
- <2 MacAdam Ellipse (<2 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1

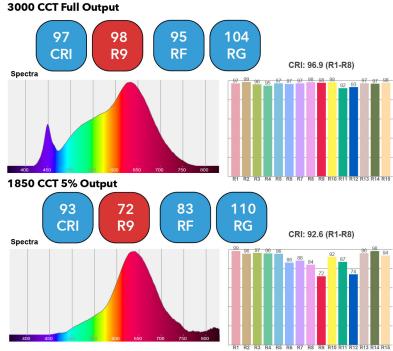


CRI: 93.9 (R1-R8)

## 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

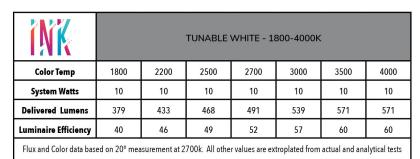




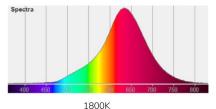


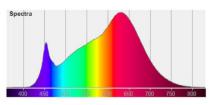
### Tunable White 1800k to 4000k

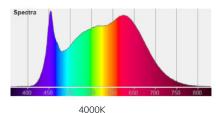
- <3 MacAdam Ellipse (<3 SDCM)
- 94 CRI average across all CCTs
- 76 R9 average across all CCTs
- Available with wired or wireless control

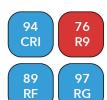


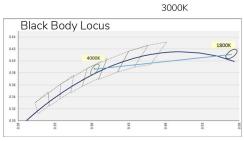
Spectral Power Distributions at all listed CCTs available upon request







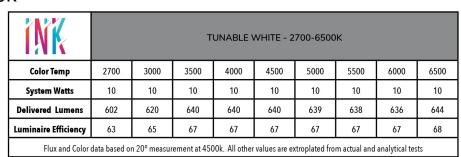






## Tunable White 2700k to 6500k

- <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

