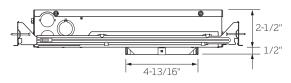


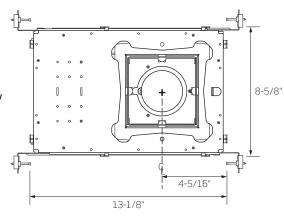
R4SSQIC SERIES | 4-Inch Square Shallow Insulated Ceiling (IC)/StopAire™ Downlight







Bottom View



















 CCEA

Ceiling Opening: 4-7/8-Inches Square Ceiling Thickness: 1/2- to 1-1/2-Inches

	R4SSQIC1	R4SSQIC2	R4SSQIC3					
WATTAGE	9W	13W	19W					
LUMEN OUTPUT ¹	1100Lm	1600Lm	2200Lm					
BEAM SPREAD	27° Medium, 45° Flood, 61° Wide Floo	Medium, 45° Flood, 61° Wide Flood						
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K							
CRI	83 (80min) / 90+							
DRIVER INPUT WATTAGE	9W	13W	19W					
INPUT CURRENT (A) 120V/277V	.08/.04	.12/.06	.17/.08					
INPUT VOLTAGE 120V – 277V Standard Driver Lutron Eco-System® Driver eldoLED ECOdrive / SOLOdrive DRIVER POWER FACTOR TOTAL HARMONIC DISTORTION LISTINGS	90 – 305VAC, 50/60Hz 120 – 277VAC, 50/60Hz 120 – 277VAC, 50/60Hz > 0.90 < 20% cCSAus Certified to UL Standards; Su ENERGY STAR® Certified Can be used to comply with Title 24 P	art 6 JA8 High Efficacy LED Light So	•					
	Conforms to Washington State Energy Code (WSEC) for Low Air Infiltration; tested in accordance with ASTM E283 (2.0 CFM or less) City of Chicago Environmental Air (CCEA) Rated; not for use in Insulated Ceilings (IC)							
WARRANTY	ANTY Five (5) year replacement after date of purchase							
SYSTEM RATING	50.000 Hours @ 70% Lumen Maintenance							

^{1.} Approximate lumen output based on 3000K performance; see photometric test results for additional information



R4SSQIC SERIES | 4-Inch Square Shallow Insulated Ceiling (IC)/StopAire™ Downlight

ORDERING INFORMATION

Example Order: R4SSQIC130KMVD4W

Housing/LED Series	Color Temp/CRI	Dimming ¹	Beam Distribution
R4SSQIC1 9W/1100lm R4SSQIC2 13W/1600lm R4SSQIC3 19W/2200lm	83 (80min) CRI 90 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K 40KC 4000K	MVD² 120 - 277V Forward/Reverse Phase, 0-10V Dimming MVD4 120 - 277V Lutron Hi-Lume 1% EcoSystem LED Driver with Soft-On, Fade-to-Black Dimming MVD6³ 120 - 277V eldoLED ECOdrive 0-10V, 1% Dimming MVD7³ 120 - 277V eldoLED ECOdrive DALI, 1% Dimming MVD8³ 120 - 277V eldoLED SOLOdrive 0-10V, 0.1% Dimming MVD9³ 120 - 277V eldoLED SOLOdrive DALI, 0.1% Dimming MDMX³⁴ 120 - 277V eldoLED POWERdrive DMX, 0.0% Dimming	 M 27° Medium F 45° Flood W 61° Wide Flood

- 1. Consult Factory for 347V Option
- 2. Phase Dimming available for 120V only
- 3. eldoLED Drivers are programmed for linear curve dimming as standard; for logarithmic curve dimming, consult Factory
- 4. Verify DMX Driver and Control System compatibility with Factory prior to ordering

ACCESSORY ORDERING INFORMATION

Mounting Accessories

Standard Hanger Bars Supplied with Housing

HB-30 T-Bar Hanger Set

Replacement Optics

R4SOPTM27° Medium Beam OpticR4SOPTF45° Flood Beam OpticR4SOPTW61° Wide Flood Beam Optic

PRODUCT SPECIFICATIONS

CONSTRUCTION

- Specification Grade 4-inch square 16 gauge Galvanized Steel Insulated Ceiling (IC)/StopAire™ Shallow Housing with Die-Cast Aluminum Heat Sink
- Fits into a 2-1/2-inch plenum space
- For use in applications with direct contact with insulation materials
- Mounting frame features a post installation mechanism that allows 1/4-inch adjustment in all directions, as well as 5° of rotation adjustment, to ensure proper alignment
- · Quick-connect Light Engine for easy installation and removal
- Drivers are fully accessible from below the ceiling; can be easily removed
- Dual Nailer Hanger Bars are adjustable for 16- and 24-inch center joists (14-1/4- to 24-1/2-inch). Nailer Bars may be extended to rest on T-Bar ceilings; optional clip-on T-Bar Hangers available.
- Pre-wired Junction Box with six (6) 1/2-inch Knockouts and one (1) 1/2- x 3/4-inch concentric Knockout
- Mulit-volt 120-277V is standard
- Output over-voltage, over-current and short circuit protection
- Approved for Through Circuit Wiring: max. four (4) 12 AWG (2-in/2-out), wiring rated to 90°C

PERFORMANCE SUMMARY

- 2700K, 3000K, 3500K and 4000K CCTs; 80 CRI min., 83 typical; high CRI of 90+ available
- Excellent fixture-to-fixture color consistency with a 3-step MacAdam Ellipse tolerance
- Precision Optics produce 27° Medium, 45° Flood, and 61° Wide Flood beam distributions; optics are interchangeable and can be field replaced
- All R4SSQ Downlights are available for non-dimming and dimming applications; for compatible Dimmers, refer to the Dimming Specification Sheet
- Flanged or Trimless Specification Grade Trim options available
- Trimless options require use of a Mud Frame (MF4SSQ, ordered separately) for securing downlight and trim into a 1/2- to 1-inch ceiling thickness only
- UL8750 and Class 2 Compliant; RoHS Compliant, US only

TYPE

CATALOG NO.

PROJECT

R4SSQ SERIES | Trims for 4-Inch Square Shallow Downlights

TRIMMED OPTIONS





C4322SSQDC Series

Die-Cast Shallow Reflector

- 4-5/16-Inch Square Apeture, 5-11/16-Inch Square Trim Flange
- Specification Grade Die-Cast Reflector
- Includes Solite Lens
- Wet Location approved
- White Painted Flange available for -SL finish; add "-WPF" to the end of the part number

Trim

Satin Silver Painted Die-Cast Reflector C4322SSQDC-WHT Matte White Painted Die-Cast Reflector

1. Finish available with White Panted Flange; add "-WPF" to end of part number

MUD FRAME

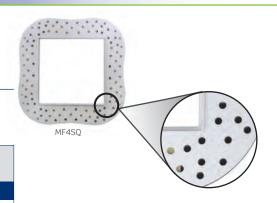
NOTE: The Mud Frame is required for trimless applications

Mud Frame

- Adhesive backed Thermoplastic Mesh Frame
- 8-1/2-Inch Square
- Required for trimless applications



MF4SSQ



TRIMLESS OPTIONS





CN4322SSQDC Series

Specification Grade Die-Cast Trimless Reflector

- 4-5/16-Inch Square Apeture
- Wet Location approved
- For use with 1/2- to 5/8-inch ceiling thicknesses only

CN4322SSQDC-SL

Satin Silver Painted Trimless Reflector CN4322SSQDC-WHT Matte White Painted Trimless Reflector



R4SSQ SERIES | 4-Inch Square Shallow Downlight Photometrics

R4SSQNC430KMVDM / C4322SSQDC-SL: 3000K, 83 CRI, MEDIUM BEAM, PAINTED SILVER REFLECTOR

LM-63 Test No. G21072306; LM-79 Test No. S21072901

Fixture Delivered Lumens: 2818.7

Total Watts@120V: 28.5

Lumens Per Watt: 98.9

Center Beam Candle Power: 9402

Beam Distribution: 26.6°

Spacing Criterion: 0.44

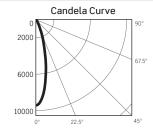
Color Rendering Index (CRI)¹: 83.6

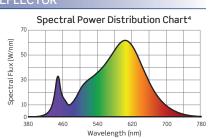
Color Temperature (CCT)2: 3023K

Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	261.2	2.8
8 FT	146.9	3.8
10 FT	94.0	4.7
12 FT	65.3	5.7
14 FT	48.0	6.6
16/FT	36.7	₹.6





R4SSQNC430KMVDF / C4322SSQDC-SL: 3000K, 83 CRI, FLOOD BEAM, PAINTED SILVER REFLECTOR

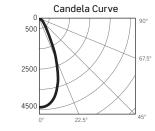
LM-63 Test No. G21072302; LM-79 Test No. S21072901

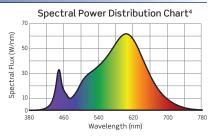
Fixture Delivered Lumens: 2837.2 Total Watts@120V: 28.4 Lumens Per Watt: 99.9 Center Beam Candle Power: 4303 Beam Distribution: 44.5° Spacing Criterion: 0.73

Color Rendering Index (CRI)¹: 83.6 Color Temperature (CCT)²: 3023K Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	119.5	4.9
8 FT	67.2	6.6
10 FT	43.0	8.2
12 FT /	29.9	9.8
14 FT	22.0	11.5
16 FT	16.8	13.1





R4SSQNC430KMVDW / C4322SSQDC-SL: 3000K, 83 CRI, WIDE FLOOD BEAM, PAINTED SILVER REFLECTOR

LM-63 Test No. G21072307; LM-79 Test No. S21072901 Fixture Delivered Lumens: 3017.7

Total Watts@120V: 28.5 Lumens Per Watt: 105.9 Center Beam Candle Power: 3004 Beam Distribution: 60.4° Spacing Criterion: 0.97 Color Rendering Index (CRI)¹: 83.6

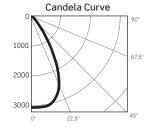
Color Temperature (CCT)²: 3023K Designed for 50,000 Hour Lamp Life³

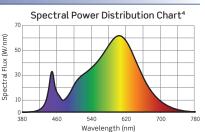
DISTANCE FOOTCANDLES BEAM DIA. (FC) (FT.) 6 FT 83.4 7.0 8 FT 46.9 9.3 10 FT 30.0 11.6 20.9 12 FT 14.0 14 FT 15.3

11.7

16/FT

Intensity Distribution





1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature, Luminaire Wattage/Output and Trim Selection. To estimate lumen output of the various CCT/CRI options, multiply 3000K (80 CRI min) results by the following:

CCT MULTIPLIERS								
CCT	STANDARD CRI	HIGH (90+) CRI						
2700K	0.94	0.70						
3000K	1.00	0.75						
3500K	1.02	0.81						
4000K	1.04	0.87						

OUTPUT MULTIPLIERS								
9W/SERIES 1 13W/SERIES 2 19W/SERIES 3								
0.38	0.54	0.73						

TRIM MULTIPLIERS							
C4322S-WHT							
1.04							



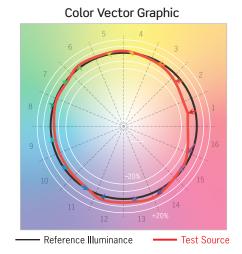
R4SSQ SERIES | 4-Inch Square Shallow Downlight Photometrics

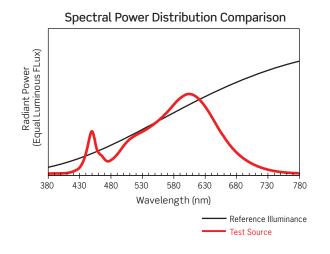
TM-30 DATA: R4SSQNC430KMVDF / C4322SSQDC-SL

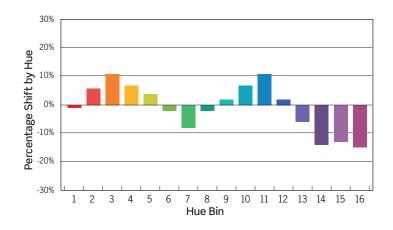
ANSI/IES TM-30-18 Color Rendition Report Test No. S21072901

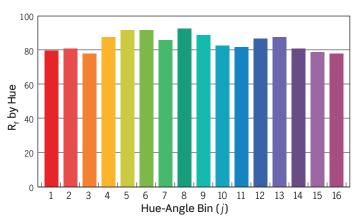
Colors are for visual orientation purposes only

$R_{\rm f}$	86
R_{g}	96
CCT(K)	3023K
D _{uv}	0.0016
u¹	0.2492
V ^I	0.5231









HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	6%	10%	7%	4%	-2%	-7%	-2%	2%	8%	12%	3%	-6%	-14%	-13%	-15%
R _f VALUE	81	83	80	90	93	94	88	94	90	84	83	86	89	81	80	79



R4SSQ SERIES | 4-Inch Square Shallow Downlights: Dimming Specifications

			PHASE/0-10V DIMMING (MVD Option*)	eldoLED ECOdrive 0-10V (MVD6 Option)	eldoLED SOLOdrive 0-10V (MVD8 Option)
Manufacturer	Product	Model	Light Output	Light Output	Light Output
Leviton	IllumaTech	IPI06-1LZ	1%-100%	N/A	N/A
Leviton	SureSlide	6631-2	1%-100%	N/A	N/A
Leviton	Vizia	VPE06	9%-100%	N/A	N/A
Leviton	Trimatron	6683-IW	6%-100%	N/A	N/A
Leviton	Decora	6161	15%-100%	N/A	N/A
Leviton	SureSlide	6633-P	1%-100%	N/A	N/A
Leviton	IllumaTech	IPE04	6%-100%	N/A	N/A
Leviton	IllumaTech	IP710-DLX	N/A	1%-100%	0.1%-100%
Cooper	Devine	DLC03P	1%-100%	N/A	N/A
Cooper	Skye	SLC03P	0%-100%	N/A	N/A
Cooper	Decorator	DAL06P	0%-100%	N/A	N/A
Pass & Seymour	Titan	CD4FB-W	N/A	1%-100%	0.1%-100%
Synergy		ISD BC	N/A	1%-100%	0.1%-100%
Watt Stopper	Miro Decorator	DCLV1	N/A	1%-100%	0.1%-100%
Lutron	Ariadni	TGCL-153P	1%-100%	N/A	N/A
Lutron	Ariadni	TG-600P	13%-100%	N/A	N/A
Lutron	Diva	DVCL-153P	1%-100%	N/A	N/A
Lutron	Diva	DV600P	6%-100%	N/A	N/A
Lutron	Diva	DVELV303P	6%-100%	N/A	N/A
Lutron	Diva	DVTV	N/A	1%-100%	0.1%-100%
Lutron	Faedra	FAELV500	12%-100%	N/A	N/A
Lutron	Lumea	LG600P	8%-100%	N/A	N/A
Lutron	Maestro	MAELV600	16%-100%	N/A	N/A
Lutron	Nova	NFTV	N/A	1%-100%	0.1%-100%
Lutron	Nova T	NTFTV	N/A	1%-100%	0.1%-100%
Lutron	Skylark	S-603PG	5%-96%	N/A	N/A
Lutron	Skylark	S600P	5%-100%	N/A	N/A
Lutron	Skylark	SELV300P	10%-100%	N/A	N/A
Lutron	Skylark	CT103P	9%-100%	N/A	N/A

*277V Phase Dimming is not available

PHASE DIMMING

- Incandescent 120V AC Dimmers adjust the light with Forward Phase Control, where the Dimmer "chops" the forward part of the AC Wave to deliver less or more power to the light source. No Neutral Wire Connection required.
- Electronic Low Voltage 120V AC Dimmers adjust the light with Reverse Phase Control, where the Dimmer "chops" the back part of the AC Wave to deliver less or more power to the light source. Neutral Wire Connection required.

0-10V DIMMING

• 0−10V DC Low Voltage Dimmers operate using two (2) Low Voltage Dimming Wires that are separate from the 120V or 277V AC Power. The Dimmer sends a Variable Output Voltage to the luminaire based upon the dimming level. 10V Corresponds to undimmed operation, 5V to 50% and so on. Switching On/Off is controlled with the Line Voltage Power Input to the Dimmer (120V or 277V AC). Dimming operation is controlled with the 0−10V DC Low Voltage Wiring Connection between the Dimmer and the LED Driver. The Control Signal runs on two (2) low voltage control wires color coded Violet and Pink/Gray.

EcoSystem/ECOdrive DIMMING

- Lutron EcoSystem Drivers provide continuous dimming from 1%-100%. For a complete list of compatible Dimmers and Controls, visit www.lutron.com
- Use DALI approved Controls for dimming eldoLED ECOdrive, 1% Dimming (Dimming Option MVD7) and eldoLED SOLOdrive, 0.1% Dimming (Dimming Option MVD9).

NOTES

- 1. Testing was performed with a single luminaire connected to Dimmer.
- 2. Testing has been performed on these Dimmers, but this does not imply any warranty of compatibility.
- 3. Dimming performance can be influenced by different Loads, as well as variations in Dimmer Switches within the same Model.
- 4. Dimmer Maximum Load Rating with LED may differ from published Traditional Source Dimmer Ratings. Consult manufacturer for maximum Dimmer information.
- 5. Consult factory for additional dimming information.