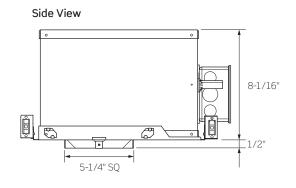
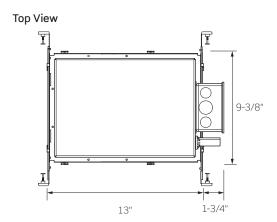


R4SQSA SERIES | 4-Inch Square StopAire™ Downlight















Certified

R4SQSA1 R4SQSA2 R4SQSA3 R4SQSA4 R4SQSA5 R4SQSA6 WATTAGE 12W 16W 21W 30W 38W 45W LUMEN OUTPUT1 1100Lm 1600Lm 2200Lm 3000Lm 3700Lm 4100Lm 2700K / 3000K / 3500K / 4000K **COLOR TEMPERATURE** CRI 83 (80min) / 90+ **BEAM SPREADS** 33° Narrow / 38° Medium / 62° Wide / Wall Wash DRIVER INPUT WATTAGE 12W 16W 21W 30W 38W 45W INPUT CURRENT (A) 120V/277V/347V .08/.04/.03 .12/.06/.04 .17/.08/.06 .23/.11/.08 .31/.14/.11 .36/.16/.12 INPUT VOLTAGE 120VAC / 277VAC / 347VAC, 50/60Hz Standard Driver Lutron Eco-System® Driver 120VAC / 277VAC, 50/60Hz N/A N/A eldoLED ECOdrive / SOLOdrive 120VAC / 277VAC, 50/60Hz N/A DRIVER POWER FACTOR > 0.90 TOTAL HARMONIC DISTORTION < 20% **LISTINGS** cCSAus Certified to UL Standards; Suitable for Damp Locations **ENERGY STAR® Certified** Chicago Plenum Housings are CCEA Listed WARRANTY 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



R4SQSA SERIES | 4-Inch Square StopAire™ Downlight

ORDERING INFORMATION

Housing/LED Series	Color Temp/CRI	Electrical	Dimming	Beam Dist.
R4SQSA1 12W/1100lm R4SQSA2 16W/1600lm R4SQSA3 21W/2200lm R4SQSA4 30W/3000lm R4SQSA5 38W/3700lm R4SQSA6 45W/4100lm	83 (80min) CRI 90 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K 40K 4000K	12 120V 27 277V 34 ¹ 347V	D¹ Forward/Reverse Phase/0-10V Dimming D2² 347V 0-10V Dimming D4³ Lutron Hi-lume 1% EcoSystem Driver with Soft-on, Fade-to-Black D6⁴.5 eldoLED ECOdrive, 0-10V, 1% Dimming D7⁴.5 eldoLED ECOdrive, DALI, 1% Dimming B8₊5 eldoLED SOLOdrive, 0-10V, 0.1% Dimming D9⁴.5 eldoLED SOLOdrive, DALI, 0.1% Dimming	N 33° Narrow M 38° Medium W 62° Wide WW Wall Wash

- 1. Forward/Reverse Phase Dimming for 120V only
- 2. D2 Dimming option (0-10V Dimming) is only available for 347V option
- 3. Lutron Eco-System available for both 120V and 277V. Lutron Dimming Options are available for Series 1 through 4 only (12W through 30W); not available for use with LED Series 5 or 6 (38W or 45W).
- 4. R4SQSA6 (LED Series 6) is not available with eldoLED Dimming options
- 5. eldoLED Drivers are programmed for Linear Curve Dimming as standard; for Logarithmic Curve Dimming, consult factory

ACCESSORY ORDERING INFORMATION

Mounting Accessories

Standard Hanger Bars Supplied with Housing

HB-30 T-Bar Hanger Set

Replacement Optics

4SQOPT-N33° Beam Replacement Optic4SQOPT-M38° Beam Replacement Optic4SQOPT-W62° Beam Replacement Optic

See page 3 for compatible Trim information and details

Example Order: R4SQSA230KCMVDM

PRODUCT SPECIFICATIONS

CONSTRUCTION

- Specification Grade 4-inch square 16 gauge Galvanized Steel StopAire™ Housing with Die-Cast Aluminum Heat Sink
- Requires minimum 3-inch clearance around Housing from insulation material; thermal protection provided in case of improper insulation use
- Quick-connect Light Engine; Drivers are fully accessible from below the ceiling and can be easily removed
- 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
- 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-inch x 3/4-inch Concentric Knockout
- Output over-voltage, over-current and short circuit protection
- Approved for Through Circuit Wiring: max. six (6) 12 AWG (3 in/3 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
- Glass TIR Optics provide smooth, uniform beams; maximizing output and minimizing glare. Available in 33° Narrow, 38° Medium, and 62° Wide; optics are interchangeable and can be field replaced
- A high efficiency, soft-focus, field removable film is installed for even greater softening of the beam
- Wall Wash distribution provides a smooth, wide beam with excellent uniformity; well suited for any wall lighting application
- R4SQ Downlights are available for non-dimming and dimming applications; for compatible Dimmers, refer to the Dimming Specification Sheet
- Flanged or Trimless Specification Grade Trims in several different styles and finishes available
- Trimless options require use of a Mud Frame (MF4SQ, ordered separately) for securing Downlight and Trim in a 1/2- to 5/8-inch ceiling thickness only
- Trimless options cannot be used on Remodel Downlights (R4RM)
- UL8750 and Class 2 Compliant; RoHS Compliant, US only



R4SQ SERIES | Trims for 4-Inch Square Downlights

TRIMMED OPTIONS



C4322SQ-CLR



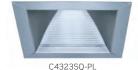
C4322SQ Series

Specification Grade Reflector

- 4-1/2-Inch Square Apeture, 5-3/4-Inch Square Trim Flange
- Wet Location approved
- White Painted Flange available for -CLR and -PL finish trims; add "-WPF" to the end of the part number

C4322SQ-CLR1 Anodized Clear Reflector C4322SQ-PL1 Anodized Platinum Reflector C4322SQ-WHT Matte White Painted Reflector

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



C4323SQ Series

Lensed Wall Wash Trim

- 4-1/2-Inch Square Apeture, 5-3/4-Inch Square Trim Flange
- Angled Diffuse Glass Spread Lens
- Wet Location approved
- White Painted Flange available for -CLR and -PL finish trims; add "-WPF" to the end of the part number

C4323SQ-CLR¹ Anodized Clear Wall Wash C4323SQ-PL1 Anodized Platinum Wall Wash C4323SQ-WHT Matte White Painted Wall Wash

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



C4322SQD Series

Die-Cast (DC) or ISOWET Dead Front (DF) Reflector

- 4-1/2-Inch Square Apeture, 5-3/4-Inch Square Trim Flange
- · Specification Grade Die-Cast Reflector
- Wet Location approved
- White Painted Flange available for -SL finish; add "-WPF" to the end of the part number

Trim

C4322SODC-SL1 Satin Silver Painted Die-Cast Reflector C4322SQDC-WHT Matte White Painted Die-Cast Reflector C4322SQDF-SL1 Satin Silver Painted Dead Front Reflector C4322SQDF-WHT Matte White Painted Dead Front Reflector 1. Finish available with White Panted Flange; add "-WPF" to end of part number



C4322SQDF-SL

C4323SQDC-SL



C4323SQDC Series

Die-Cast Lensed Wall Wash Trim

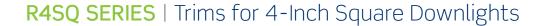
- 4-1/2-Inch Square Apeture, 5-3/4-Inch Square Trim Flange
- Wet Location approved
- White Painted Flange available for -SL finish; add "-WPF" to the end of the part number

C4323SQDC-SL1 Satin Silver Painted Die-Cast Reflector C4323SQDC-WHT Matte White Painted Die-Cast Reflector 1. Finish available with White Panted Flange; add "-WPF" to end of part number **TYPE**



CATALOG NO.

PROJECT



MUD FRAME

NOTE: The Mud Frame is required for trimless applications

Mud Frame

- Adhesive backed Thermoplastic Mesh Frame
- 8-1/2-Inch Square

LEVITON. ConTech

• Required for trimless applications





TRIMLESS OPTIONS





CN4322SQDC Series

Specification Grade Die-Cast Trimless Reflector

- 4-1/2-Inch Square Apeture, 5-3/4-Inch Square Trim Flange
- Wet Location approved
- For use with 1/2- to 5/8-inch ceiling thicknesses only
- Trim cannot be used on Remodel Housings (R4SQRM)

Trim

CN4322SQDC-SL Satin Silver Painted Trimless Reflector CN4322SQDC-WHT Matte White Painted Trimless Reflector



R4SQ SERIES | 4-Inch Square Downlight Photometrics

R4SQNC630K12DN / C4322SQ-CLR: 3000K, 80 CRI, NARROW BEAM, CLEAR REFLECTOR

LM-63 Test No. G21072004; LM-79 Test No. S21071503

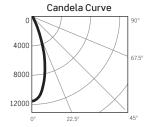
Fixture Delivered Lumens: 4207.7 Total Watts@120V: 44.7 Lumens Per Watt: 94.1

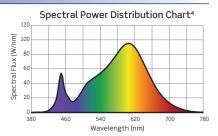
Center Beam Candle Power: 11502 Beam Distribution: 33.7° Spacing Criterion: 0.55

Color Rendering Index (CRI)¹: 83.3 Color Temperature (CCT)²: 3053K Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	319.5	3.6
8 FT	179.7	4.8
10 FT	115.0	6.0
12 FT /	79.9	7.2
14 FT	58.7	8.4
16/FT	44.9	9.7





R4SQNC630K12DM / C4322SQ-CLR: 3000K, 80 CRI, MEDIUM BEAM, CLEAR REFLECTOR

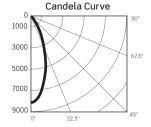
LM-63 Test No. G21071405; LM-79 Test No. S21071503

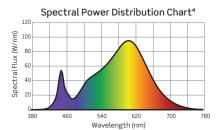
Fixture Delivered Lumens: 4454.1
Total Watts@120V: 44.7
Lumens Per Watt: 99.6
Center Beam Candle Power: 8124
Beam Distribution: 38.0°
Spacing Criterion: 0.61
Color Rendering Index (CRI)¹: 83.3
Color Temperature (CCT)²: 3053K

Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	225.7	4.2
8 FT	126.9	5.6
10 FT	81.2	7.0
12 FT /	56.4	8.4
14 FT	41.4	9.9
16/FT	31.7	11,3





R4SQNC630K12DW / C4322SQ-CLR: 3000K, 80 CRI, WIDE BEAM, CLEAR REFLECTOR

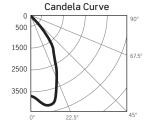
LM-63 Test No. G21071403; LM-79 Test No. S21071503

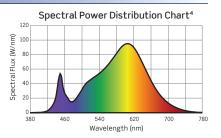
Fixture Delivered Lumens: 4295.6 Total Watts@120V: 44.7 Lumens Per Watt: 96.1 Center Beam Candle Power: 3684 Beam Distribution: 61.7° Spacing Criterion: 1.0

Color Rendering Index (CRI)¹: 83.3 Color Temperature (CCT)²: 3053K Designed for 50,000 Hour Lamp Life³

Intensity Distribution

(FT.)	(FC)	(FT.)
6 FT	102.3	7.2
8 FT	57.6	9.6
10 FT	36.8	11.9
12 FT /	25.6	14.3
14 FT	18.8	16.7
16/FT	14.4	19,1





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								
ССТ	STD. CRI	HIGH CRI						
2700K	0.94	0.70						
3000K	1.00	0.75						
3500K	1.02	0.81						
4000K	1.04	0.87						

OUTPUT MULTIPLIERS								
12W/SERIES 1 16W/SERIES 2 21W/SERIES 3 30W/SERIES 4 38W/SERIES								
0.27	0.37	0.52	0.71	0.88				

TRIM MULTIPLIERS							
C4322SQDC-SL C4322SQDF-SL							
0.93	0.94						



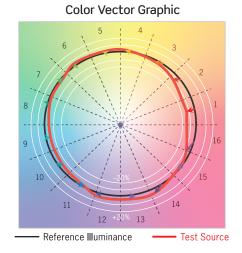
R4SQ SERIES | 4-Inch Square Downlight Photometrics

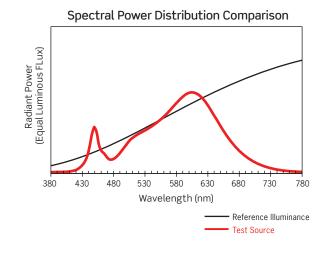
TM-30 DATA: R4SQNC630K12DM / C4322SQ-CLR

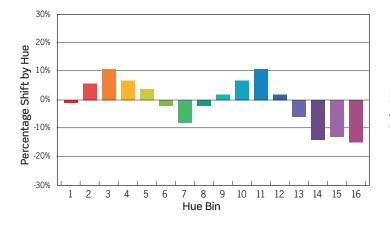
ANSI/IES TM-30-18 Color Rendition Report Test No. S21071503

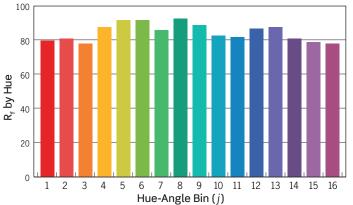
Colors are for visual orientation purposes only

R_f 86 R_g 97 CCT(K) 3053K D_{uv} 0.0014 u^I 0.2482 v^I 0.5223









HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	6%	11%	7%	4%	-2%	-8%	-2%	2%	7%	12%	4%	-6%	-14%	-13%	-15%
R _f VALUE	81	82	79	88	93	93	87	94	90	84	83	86	89	82	80	79



R4SQ SERIES | 4-Inch Square Downlights: Dimming Specifications

			PHASE/0-10V DIMMING (D, D2, or MVD Option*)	eldoLED ECOdrive 0-10V (D6, D8, MVD6, or MVD8 Option)	eldoLED SOLOdrive 0-10V (D7, D9, MVD7, or MVD9 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 D7 or MVD7) and eldoLED SOLOdrive, 0.1% Dimming (Dimming Option D9 or MVD9).

NOTES

- 1. Testing was performed with a single luminaire connected to Dimmer.
- 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.