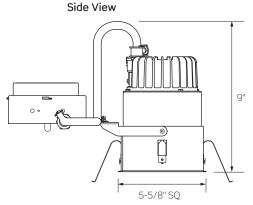
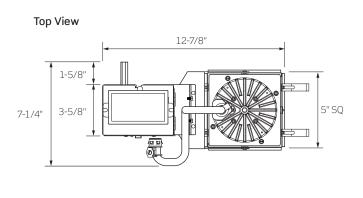


R4SQRM SERIES | 4-Inch Square Remodel Downlight













	R4SQRM1	R4SQRM2	R4SQRM3	R4SQRM4	R4SQRM5	R4SQRM6		
WATTAGE	12W	16W	21W	30W	38W	45W		
LUMEN OUTPUT ¹	1100Lm	1600Lm	2200Lm	3000Lm	3700Lm	4100Lm		
COLOR TEMPERATURE	2700K / 3000K /	′ 3500K / 4000K						
CRI	83 (80min) / 90+							
BEAM SPREAD	33° Narrow / 38°	Medium / 62° Wid	le / 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								
Standard Driver	120VAC/277VAC	C/347VAC, 50/60I	Hz					
Lutron Eco-System® Driver	120VAC / 277VAC , 50/60Hz N/A N/A							
eldoLED ECOdrive / SOLOdrive	120VAC / 277VAC , 50/60Hz							
DRIVER POWER FACTOR	> 0.90							
TOTAL HARMONIC DISTORTION	< 20%							
LISTINGS	cCSAus Certified to UL Standards; Suitable for Wet Locations except Wall Wash option							
	ENERGY STAR® Certified							
WARRANTY Five (5) year replacement after date of purchase								
SYSTEM RATING	50,000 Hours @	70% Lumen Mainte	enance					

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



R4SQRM SERIES | 4-Inch Square Remodel Downlight

ORDERING INFORMATION

Example Order: R4SQRM430K12D	M	
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Housing/LED Series	Color Temp/CRI	Electrical	Dimming	Beam Dist.
R4SQRM1 12W/1100lm R4SQRM2 16W/1600lm R4SQRM3 21W/2200lm R4SQRM4 30W/3000lm R4SQRM5 38W/3700lm R4SQRM6 45W/4100lm	83 (80min) CRI 90 CRI 27K 2700K 27KC 2700K 30K 3000K 30KC 3000K 35K 3500K 35KC 3500K 40K 4000K 40KC 4000K	12 120V 27 277V 34 ² 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 eldoLED ECOdrive, 0-10V, 1% Dimming D7⁴ eldoLED ECOdrive, DALI, 1% Dimming D8⁴ eldoLED SOLOdrive, 0-10V, 0.1% Dimming D9⁴ eldoLED SOLOdrive, DALI, 0.1% Dimming DMX⁴.5 eldoLED POWERdrive, DMX 0.0% Dimming	N 33° Narrow M 38° Medium W 62° Wide WW Wall Wash

ACCESSORY ORDERING INFORMATION

Ren	lacement Optics	

4\$QOPT-N33° Beam Replacement Optic4\$QOPT-M38° Beam Replacement Optic4\$QOPT-W62° Beam Replacement Optic

See page 3 for compatible Trim information and details

PRODUCT SPECIFICATIONS

CONSTRUCTION

- Specification Grade 4-inch square 16 gauge Galvanized Steel Remodel 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
- Heavy Duty Steel Plaster Ring is secured to the ceiling by three (3)
 Spring Clamps
- Quick-connect Light Engine; Drivers are fully accessible from below the ceiling and can be easily removed
- Pre-wired Junction Box with four (4) 1/2-inch Knockouts
- 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
- 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
- Specification Grade Flanged Trims available in several different styles and finishes
- Trimless options cannot be used on Remodel Style Housing
- UL8750 and Class 2 Compliant; RoHS Compliant, US only



R4SQ SERIES | Trims for 4-Inch Square Downlights

TRIMMED OPTIONS



C4322SQ-CLR



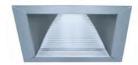
C4322SQ Series

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-PL



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

C4322SQDF-SL

- 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



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



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

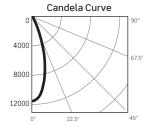
Center Beam Candle Power: 11502 Beam Distribution: 33.7°

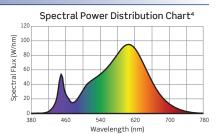
Spacing Criterion: 0.55 Color Rendering Index (CRI)1: 83.3

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





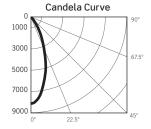
R4SQNC630K12DM / C4322SQ-CLR: 3000K, 80 CRI, MEDIUM BEAM, CLEAR REFLECTOR

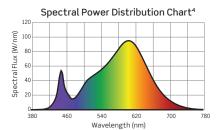
Fixture Delivered Lumens: 4454.1 Total Watts@120V: 44.7 Lumens Per Watt: 99.6 Center Beam Candle Power: 8124 Beam Distribution: 38.0° Spacing Criterion: 0.61 Color Rendering Index (CRI)1: 83.3 Color Temperature (CCT)2: 3053K

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

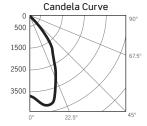
LM-63 Test No. G21071403; LM-79 Test No. S21071503

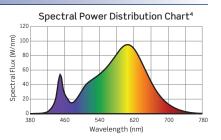
Fixture Delivered Lumens: 4295.6 Total Watts@120V: 44.7 Lumens Per Watt: 96.1 Center Beam Candle Power: 3684 Beam Distribution: 61.7° Spacing Criterion: 1.0

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

Intensity Distribution

(FT.)	FOOTCANDLES (FC)	BEAM DIA. (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 5				
0.27	0.37	0.52	0.71	0.88				

TRIM MULTIPLIERS						
C4322SQDC-SL	C4322SQDF-SL					
0.93	0.94					



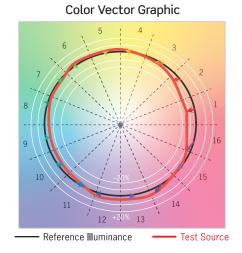
R4SQ SERIES | 4-Inch Square Downlight Photometrics

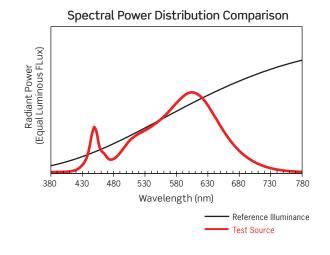
TM-30 DATA: R4SQNC630K12DM / C4322SQ-CLR

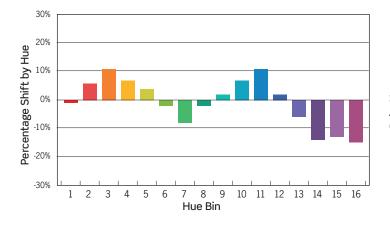
ANSI/IES TM-30-18 Color Rendition Report Test No. S21071503

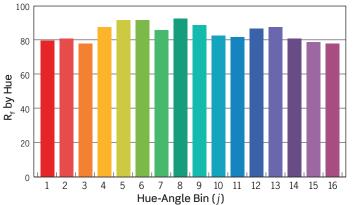
Colors are for visual orientation purposes only

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.