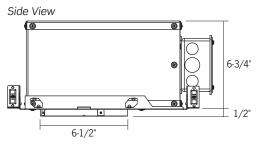


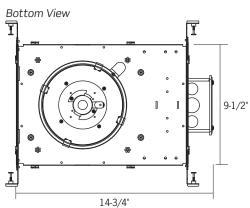
DATE

PROJECT

R6 SERIES | 6-Inch Downlights: R6IC Insulated Ceiling (IC)/StopAire™ Housing







Ceiling Opening: 6-5/8-Inches Ceiling Thickness: 1/2- to 2-Inches

	R6IC1	R6IC2	R6IC3	R6IC4			
WATTAGE	12W	16W	21W	30W			
LUMEN OUTPUT ¹	1100Lm	1600Lm	2200Lm	3000Lm			
COLOR TEMPERATURE	2700K / 3000K / 3500	K / 4000K	1	1			
CRI	83 (80min) / 90+						
INPUT WATTAGE	12W	16W	21W	30W			
INPUT CURRENT (A) 120V/277V/347V	.08/.04/.03	.12/.06/.04	.17/.08/.06	.23/.11/.08			
INPUT VOLTAGE			1	1			
120V - 277V Standard Driver	90-305V AC, 50/60Hz						
347V Standard Driver	347VAC, 50/60Hz						
Lutron HiLume [®] Driver 120VAC, 50/60Hz							
Lutron Eco-System [®] Driver	er 120VAC / 277VAC, 50/60Hz						
eldoLED ECOdrive and SOLOdrive	120VAC / 277VAC, 50/6	50Hz					
DRIVER POWER FACTOR	> 0.90						
TOTAL HARMONIC DISTORTION (THD)	< 20%						
LISTINGS	cCSAus Certified to UL	Standards					
(SP. angthe WSEG	Suitable for Damp Locations						
USTED ENERGY STAR	Conforms to Washington State Energy Code (WSEC) for Low Air Infiltration; tested in accordance with ASTM E283 (2.0 CFM or less).						
	ENERGY STAR [®] Certifie	d:					
	– All Wattage/Lumen o	options are ENERGY STA	R [®] Certified				
	– ENERGY STAR [®] Cert	ified Trims: C6322-PL, C	N6322-PL, C6322-WHT,	CN6322-WHT,			
	C6322-CLR and CN6322-CLR (all beam distributions); –C (Clear Lens) and –SL (Sandblasted						
	Lens) trim options are not ENERGY STAR [®] Certified – 347V Option, Lutron and eldoLED Dimming Options are not ENERGY STAR [®] Certified						
	– 347V Option, Lutron	and eldoLED Dimming (Options are not ENERGY S	STAR [®] Certified			
WARRANTY	Five (5) year replacement	nt after date of purchase	9				
SYSTEM RATING	50,000 Hours @ 70% L	umen Maintenance					
Lumen values are approximate, see photometric test results							



DATE

PROJECT

TYPE

R6 SERIES | 6-Inch Downlights: R6IC Insulated Ceiling (IC)/StopAire[™] Housing

ORDERING INFORMATION

Example Order: RGIC230KCMVD9

Housing/LED Series	Color Temp/CRI	Electrical/Dimming
R6IC1 - 12W/1100lm	83 (80min) CRI	MVD ¹ - 120-277V Triac, ELV, 0-10V Dimming
R6IC2 - 16W/1600lm	27K - 2700K	34D2 - 347V 0-10V Dimming
R6IC3 - 21W/2200lm	30K - 3000K	12D3 ² - Lutron Hi-lume 1% 2-Wire LED Driver
R6IC4 - 30W/3000lm	35K - 3500K	(120V Forward Phase Only)
	40K - 4000K	MVD4 - Lutron Hi-lume 1% EcoSystem LED Driver
	90+ CRI	with Soft-on, Fade-to-Black
	27KC - 2700K	MVD6 ³ - 120-277V eldoLED ECOdrive, 0-10V 1% Dimming
	30KC - 3000K	MVD7 ³ - 120-277V eldoLED ECOdrive, DALI 1% Dimming
	35KC - 3500K	MVD8 ³ - 120-277V eldoLED SOLOdrive, 0-10V 0.1% Dimming
	40KC - 4000K	MVD9 ³ - 120–277V eldoLED SOLOdrive, DALI 0.1% Dimming

1. Triac and ELV Dimming for 120V only

2. Lutron Hi-Lume Dimming only available in 120V for Series 1 through 3 (12W through 21W) only, not available for use with LED Series 4 (30W)

3. eldoLED Drivers are programmed for linear curve dimming as standard. For Logarithmic Curve Dimming, consult factory

Accessories Standard Hanger Bars Supplied with Housing HB-30 - T-Bar Hanger Set

See "Trims for 6-Inch LED Downlights" Specification Sheet for compatible Trim information and details

DATE

LIGHTING

PROJECT

company

TYPE

R6 SERIES | 6-Inch Downlights: R6IC Insulated Ceiling (IC)/StopAire™ Housing

PRODUCT DETAILS

Construction

- Specification Grade 6-inch Round 16 Gauge Galvanized Steel Insulated Ceiling (IC)/StopAire[™] Housing with Die-Cast Aluminum Heat Sink
- · Quick-connect Light Engine for easy installation and removal
- LED Drivers are fully accessible from below the ceiling and 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 eight (8) 1/2– inch and four (4) 3/4– inch Knockouts
- Output over-voltage, over-current and short circuit protection
- Approved for Through Circuit Wiring: max. eight (8) 12 AWG (4in/4out); wiring should be rated for at least 75°C
- · For use in applications with direct contact with insulation materials

Performance Summary

- 2700K, 3000K, 3500K and 4000K Color Temperatures; excellent fixture-to-fixture color consistency with a 3-step MacAdam Ellipse tolerance
- All R6 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 (MF6, ordered separately) for securing housing and trim in 1/2- to 1-inch ceiling thicknesses only
- Trimless options cannot be used on Remodel Style Housings (R6RM) or with Slope Ceiling Adapters (RSA6L)
- UL8750 and Class 2 Compliant; RoHS Compliant, US only
- Assembled in the USA



DATE

PROJECT

TYPE

R6 SERIES | Trims for 6-Inch LED Downlights

FLANGED TRIM OPTIONS



C6322 - CLR Clear Specular Reflector



C6322 Series Specification Grade Reflector

5-3/4-Inch ID, 7-Inch OD, 4-1/4-Inch Height

Specification Grade Reflector. For Wet Location approved trim, add "-C" for Clear Lens or "-SL" for Sandblast Lens after finish code.



C6323-CLR Clear Reflector

C6323 Series Lensed Wall Wash Reflector Trim 5-5/8-Inch ID, 7-Inch OD, 4-1/4-Inch Height

C6322N-CLR* - 32° Narrow Beam	Quantity
	Quantity
Clear Specular Reflector	
C6322M-CLR* - 65° Medium Beam	
Clear Specular Reflector	
C6322W-CLR* - 74° Wide Beam	
Clear Specular Reflector	
C6322-PL* - 59° Platinum Reflector	
C6322-PLWHE - 59° Platinum Wheat Reflector	
C6322-WHT - 72° White Reflector	

*Available with White Panted Flange, add "-WPF" to end of part number

C6323-CLR* - Clear Reflector Q C6323-PL* - Platinum Reflector C6323-WHT - White Reflector *Available with White Panted Flange, add "-WPF" to end of part number

Quantity

CTR6325L2-WHT-P

CTR6325L2-WHT-P Floating Glass Disc, White Reflector

CTR6325L2 Series

Floating Glass Disc 5-3/4-Inch ID; 7-7/8-Inch OD Glass Diameter: 8-3/4-Inch

Cear or White Reflector with Floating Glass Disc; 1-1/4-inch drop from ceiling.

CTR6325L2-CLR-P - Floating Glass Disc/ Clear Reflector CTR6325L2-WHT-P - Floating Glass Disc/ White Reflector

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DATE

PROJECT

TYPE

R6 SERIES | Trims for 6-Inch LED Downlights

FLANGED TRIM OPTIONS, CONTINUED



C6321-WHT-PL White Reflector/Platinum Lower Cone



C6321 Cone Series

Two Piece Reflector with Lower Cone and Flat Lens 5-3/4-Inch ID, 7-Inch OD, 4-1/4-Inch Height

Two Piece Reflector: Upper Reflector, Lower Cone. Includes one (1) LF38-CL Clear Glass Lens. Approved for Wet Locations when Glass Lens is installed.



C6321-WHT-B White Reflector/Black Baffle



C6321 Baffle Series *Two Piece Reflector with Lower Baffle and Flat Lens* 5-3/4-Inch ID, 7-Inch OD, 4-1/4-Inch Height

Two Piece Reflector: White Upper Reflector, Black or White Lower Baffle. Includes one (1) LF38-CL Clear Glass Lens. Approved for Wet Locations when Glass Lens is installed.

C6321-CLR-CLR - Clear Refl./Clear Lower Cone	Quantity
C6321-CLR-PL - Clear Refl./Platinum Lower Cone	
C6321-WHT-CLR - White Refl./Clear Lower Cone	
C6321-WHT-PL - White Refl./Platinum Lower Cone	è

C6321-CLR-B - Clear Reflector/Black Lower Baffle C6321-CLR-P - Clear Reflector/White Lower Baffle C6321-WHT-B - White Reflector/Black Lower Baffle C6321-WHT-P - White Reflector/White Lower Baffle



C6327-CLR-PL Clear Reflector/Platinum Lower Cone/ Regressed Prismatic Convex Lens



C6327 Cone Series

Two Piece Reflector: Lower Cone with Prismatic Convex Lens 5-3/4-Inch ID, 7-Inch OD, 4-1/4-Inch Height

Two Piece Reflector with Prismatic Convex Lens: Clear or White Upper Reflector, Clear or Platinum Lower Cone, Prismatic Convex Lens with 1-1/2– inch regress. Wet Location Listed.

C6327-CLR-CLR- Clear Refl./Clear Lower ConeQuantityC6327-CLR-PL- Clear Refl./Platinum Lower Cone- White Refl./Clear Lower ConeC6327-WHT-CLR- White Refl./Clear Lower Cone- White Refl./Platinum Lower Cone



Clear Reflector/White Lower Baffle/ Regressed Prismatic Convex Lens



C6327 Baffle Series Two Piece Reflector: Lower Baffle with Prismatic Convex Lens

5-3/4-Inch ID, 7-Inch OD, 4-1/4-Inch Height Two Piece Reflector with Prismatic Convex Lens: Clear or White Upper Reflector, Black or White Lower Baffle, Prismatic Convex Lens with 1-1/2– inch regress. Wet Location Listed.

C6327-CLR-B - Clear Reflector/Black Lower Baffle C6327-CLR-P - Clear Reflector/White Lower Baffle C6327-WHT-B - White Reflector/Black Lower Baffle C6327-WHT-P - White Reflector/White Lower Baffle



DATE

PROJECT

TYPE

R6 SERIES | Trims for 6-Inch LED Downlights

TRIMLESS OPTIONS

CN6322 Series

Sandblasted Lens after finish code.

Trimless Options require use of Mud Frame accessory (MF6, ordered separately)



CN6322*-CLR Specular Clear Reflector Multiple Beam Spreads

Specification Grade Reflector. Trim cannot be used on Remodel

For use with 1/2- to 1-inch ceiling thicknesses only. For Wet

Housings (R6RM) or with Slope Ceiling Adapters (RSA6L).

Location approved trim, add "-C" for Clear Lens or "-SL" for

Specification Grade Trimless Reflector

5-7/8-Inch ID, 6-1/4-Inch OD, 4-1/4-Inch Height



CN6323-CLR Clear Reflector

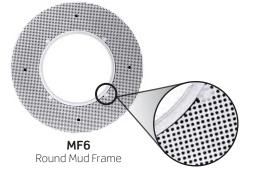
CN6323 Series Trimless Lensed Wall Wash Reflector 5-5/8-Inch ID; 6-1/4-Inch OD

CN6323-CLR - Clear Reflector

CN6323-PL - Platinum Reflector CN6323-WHT - White Reflector

Trim cannot be used on Remodel Housings (R6RM) or with Slope Ceiling Adapters (RSA6L). For use with 1/2- to 1-inch ceiling thicknesses only.

CN6322N-CLR - 32° Narrow Beam	Quantity
Clear Specular Refl.	
CN6322M-CLR - 65° Medium Beam Clear Specular	Refl.
CN6322W-CLR - 74° Wide Beam Clear Specular Re	fl.
CN6322-PL - 59° Platinum Reflector	
CN6322-WHT - 72° White Reflector	



MF6 Series

Round Mud Frame 12-Inch OD

Required for use with trimless options. Die-cast Ring with Steel Mesh Frame. Painted white.

MF6 - 6-Inch Mud Frame

Quantity

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Quantity



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TYPE

R6 SERIES | 6-Inch Round Downlight Photometrics

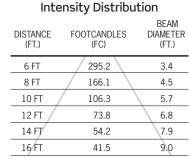
R6NC630K12D / C6322N-CLR

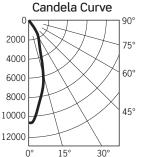
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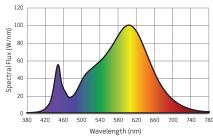
Fixture Delivered Lumens: 4152.8 Total Watts@120V: 45.0 Lumens Per Watt: 92.3 Center Beam Candle Power: 10628 Beam Distribution: 31.5° Spacing Criterion: 0.53 Color Rendering Index (CRI)1: 83.4 Color Temperature (CCT)2: 3065K

Designed for 50,000 Hour Lamp Life³ LM-63 Test No. G21070804 LM-79 Test No. S21072002





Spectral Power Distribution Chart⁴



R6NC630K12D / C6322M-CLR

Fixture Delivered Lumens: 4069.6 Total Watts@120V: 45.0 Lumens Per Watt: 90.4 Center Beam Candle Power: 4259 Beam Distribution: 65.1° Spacing Criterion: 0.95 Color Rendering Index (CRI)1: 83.4 Color Temperature (CCT)²: 3065K

Designed for 50,000 Hour Lamp Life³ LM-63 Test No. G21070803 LM-79 Test No. S21072002

Total Watts@120V: 45.0

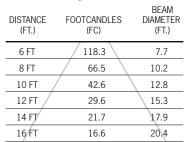
Lumens Per Watt: 93.3

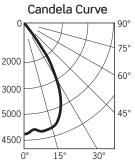
Beam Distribution: 73.6°

LM-79 Test No. S21072002

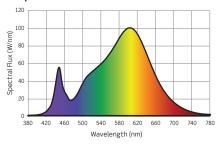
Spacing Criterion: 1.1

Intensity Distribution

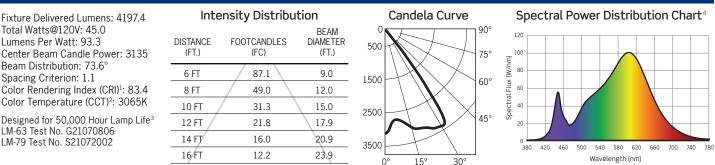




Spectral Power Distribution Chart



R6NC630K12D / C6322W-CLR



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 these various options, multiply 3000K results by the following:

CCT	T MULTIPLI	ERS		TRIM MULTIPLIERS					
ССТ	STD CRI	HIGH CRI	12W/SERIES 1	16W/SERIES 2	21W/SERIES 3	30W/SERIES 4	38W/SERIES 5	C6322-PL	C6322-WHT
2700K	0.94	0.70							
3000K	N/A	0.75	0.28	0.39	0.54	0.72	0.88	1.02	0.92
3500K	1.0	0.81	0.20	0.39					
4000K	1.0	0.87							



DATE

PROJECT

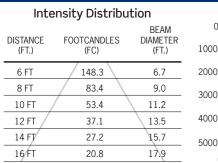
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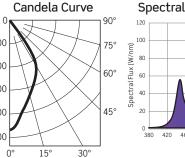
R6 SERIES | 6-Inch Round Downlight Photometrics

R6NC630K12D / C6322-PL

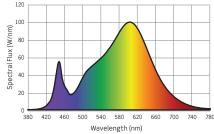
Fixture Delivered Lumens: 4141.0 Total Watts@120V: 45.0 Lumens Per Watt: 92.0 Center Beam Candle Power: 5337 Beam Distribution: 58.5° Spacing Criterion: 0.91 Color Rendering Index (CRI)¹: 83.4 Color Temperature (CCT)²: 3065K

Designed for 50,000 Hour Lamp Life³ LM-63 Test No. G21070805 LM-79 Test No. S21072002









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 these various options, multiply 3000K results by the following:

CCT	T MULTIPLI	ERS		TRIM MULTIPLIERS					
ССТ	STD CRI	HIGH CRI	12W/SERIES 1	16W/SERIES 2	21W/SERIES 3	30W/SERIES 4	38W/SERIES 5	C6322-PL	C6322-WHT
2700K	0.94	0.70							
3000K	N/A	0.75	0.28	0.39	0.54	0.72	0.88	1.02	0.92
3500K	1.0	0.81	0.20						
4000K	1.0	0.87							



DATE

PROJECT

TYPE

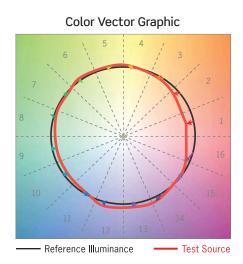
Colors are for visual orientation purposes only

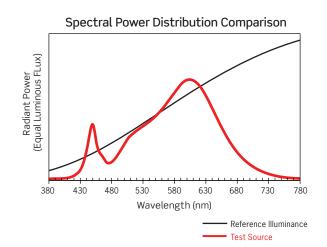
R6 SERIES | 6-Inch Round Downlight Photometrics

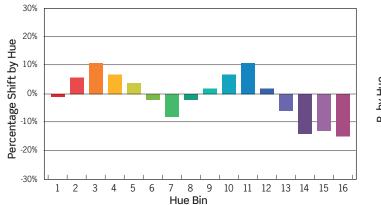
TM-30 DATA: R6NC630K12D / C6322M-CLR

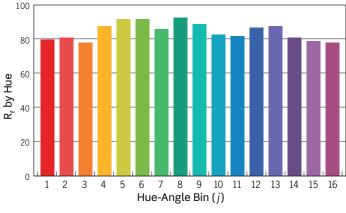
ANSI/IES TM-30-18 Color Rendition Report Test No. S21072002

R _f	86
R _g	97
CCT(K)	3065K
D _{uv}	0.0017
u ^I	0.2477
VI	0.5224









	HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Н	IUE SHIFT	-1%	6%	11%	7%	4%	-2%	-8%	-2%	1%	7%	11%	2%	-6%	-14%	-13%	-15%
F	R _f VALUE	81	82	79	88	93	93	87	94	91	85	83	88	89	82	80	80



DATE

PROJECT

TYPE

R6 SERIES | 6-Inch Round Downlights: Dimming Specifications

- 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 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 Gray/Pink.
- Lutron HiLume and 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).

			TRIAC, ELV, 0-10V DIMMING (12D, 27D or MVD Option*)	eldoLED ECOdrive 0-10V (12D6, 27D6 or MVD6 Option)	eldoLED SOLOdrive 0-10V (12D8, 27D8 or MVD8 Option)	
Manufacturer Product Model		Model	Light Output	Light Output	Light Output	
Leviton	IllumaTech	IPI06-1LZ	1%-100%	NA	NA	
Leviton	SureSlide	6631-2	1%-100%	NA	NA	
Leviton	Vizia	VPE06	9%-100%	NA	NA	
Leviton	Trimatron	6683-IW	6%-100%	NA	NA	
Leviton	Decora	6161	15%-100%	NA	NA	
Leviton	SureSlide	6633-P	1%-100%	NA	NA	
Leviton	IllumaTech	IPE04	6%-100%	NA	NA	
Leviton	IllumaTech	IP710-DLX	NA	1%-100%	0.1%-100%	
Cooper	Devine	DLC03P	1%-100%	NA	NA	
Cooper	Skye	SLC03P	0%-100%	NA	NA	
Cooper	Decorator	DAL06P	0%-100%	NA	NA	
Pass & Seymour	Titan	CD4FB-W	NA	1%-100%	0.1%-100%	
Synergy		ISD BC	NA	1%-100%	0.1%-100%	
Watt Stopper	Miro Decorator	DCLV1	NA	1%-100%	0.1%-100%	
Lutron	Ariadni	TGCL-153P	1%-100%	NA	NA	
Lutron	Ariadni	TG-600P	13%-100%	NA	NA	
Lutron	Diva	DVCL-153P	1%-100%	NA	NA	
Lutron	Diva	DV600P	6%-100%	NA	NA	
Lutron	Diva	DVELV303P	6%-100%	NA	NA	
Lutron	Diva	DVTV	NA	1%-100%	0.1%-100%	
Lutron	Faedra	FAELV500	12%-100%	NA	NA	
Lutron	Lumea	LG600P	8%-100%	NA	NA	
Lutron	Maestro	MAELV600	16%-100%	NA	NA	
Lutron	Nova	NFTV	NA	1%-100%	0.1%-100%	
Lutron	Nova T	NTFTV	NA	1%-100%	0.1%-100%	
Lutron	Skylark	S-603PG	5%-96%	NA	NA	
Lutron	Skylark	S600P	5%-100%	NA	NA	
Lutron	Skylark	SELV300P	10%-100%	NA	NA	
Lutron	Skylark	CT103P	9%-100%	NA	NA	

NOTES

5. Consult factory for additional dimming information.

^{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.
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.