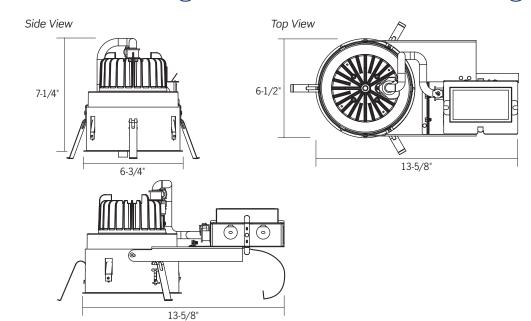


R6 SERIES | 6-In. Round Downlights: R6RM Remodel Housing



Ceiling Opening: 6-5/8"
Ceiling Thickness: 1/2" - 5/8"



	R6RM1	R6RM2	R6RM3	R6RM4	R6RM5	R6RM6	
WATTAGE	12W	16W	21W	30W	38W	45W	
LUMEN OUTPUT ¹	1100Lm	1600Lm	2200Lm	3000Lm	3700Lm	4100Lm	
COLOR TEMPERATURE	2700K / 3000	K / 3500K / 400)0K				
CRI	83 (80min) / 90	0+					
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							
Lutron HiLume® Driver	120VAC, 50/60	0Hz			N/A	N/A	
Lutron Eco-System® Driver	120VAC/277V	/AC, 50/60Hz			N/A	N/A	
eldoLED ECOdrive and SOLOdrive	120VAC/277V	/AC, 50/60Hz					
DRIVER POWER FACTOR	> 0.90						
TOTAL HARMONIC DISTORTION (THD)	< 20%						
LISTINGS COLUMB LISTED UL924 LISTED UL924 CHARGY STAR	cCSAus Certified to UL Standards; Suitable for Damp Locations ENERGY STAR® Certified: - All Wattage/Lumen options are ENERGY STAR® Certified - ENERGY STAR® Certified Trims: C6322-PL, C6322-WHT, and C6322-CL (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						
WARRANTY	Five (5) year re	placement after	date of purchase	Э			
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance						

^{1.} Lumen values are approximate, see photometric test results



R6 SERIES | 6-In. Round Downlights: R6RM Remodel Housing

ORDERING INFORMATION

Example Order: RGRM130K12D - ER

Housing/LED Series	Color Temp/CRI	Electrical	Dimming
R6RM1 - 12W/1100lm	83 (80min) CRI	12 - 120V	D ¹ - Triac, ELV, 0-10V Dimming
R6RM2 - 16W/1600lm	27K - 2700K	27 - 277V	D2 ² - 347V 0-10V Dimming
R6RM3 - 21W/2200lm	30K - 3000K	34 ² - 347V	D3 ³ - Lutron Hi-lume 1% 2-Wire Driver
R6RM4 - 30W/3000lm	35K - 3500K	1	(120V Forward Phase Only)
R6RM5 - 38W/3700lm	40K - 4000K		D4 ³ - Lutron Hi-lume 1% EcoSystem Driver
R6RM6 - 45W/4100lm	90+ CRI		with Soft-on, Fade-to-Black
	27KC - 2700K		D6 ⁴ - eldoLED ECOdrive, 0-10V, 1% Dimming
	30KC - 3000K 35KC - 3500K		D7 ⁴ - eldoLED ECOdrive, DALI, 1% Dimming
	40KC - 4000K		D8 ⁴ - eldoLED SOLOdrive, 0-10V, 0.1% Dimming
	4010 4000K		D9 ⁴ - eldoLED SOLOdrive, DALI, 0.1% Dimming
			DMX ^{4,5} - eldoLED POWERdrive, DMX 0.0% Dimming

- 1. Triac and ELV Dimming for 120V only
- 2. 0-10V Dimming only dimming available for 347V option. Cannot be used with Emergency Battery Backup option.
- 3. Lutron Hi-Lume 2-Wire Dimming available in 120V only, 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. eldoLED Drivers are programmed for Linear Curve Dimming as standard; for Logarithmic Curve Dimming, consult factory
- 5. Verify DMX Driver and Control System compatibility with factory prior to ordering

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

PRODUCT DETAILS

Construction

- Specification Grade 6-inch Round 16 Gauge Galvanized Steel Remodel Housing with Die-Cast Aluminum Heat Sink
- Heavy duty steel plaster ring is secured to ceiling by three (3) spring clamps. LED module/trim assembly is held in place with three (3) "trim lock" dimpled spring clips
- Quick-connect Light Engine for easy installation and removal
- LED Drivers are fully accessible from below the ceiling and can be easily removed
- Pre-wired Junction Box with convenient Screwdriver Pry-outs plus four (4) 1/2-inch Knockouts and one (1) 1/2-inch x 3/4-inch Concentric Pry-out
- Output over-voltage, over-current and short circuit protection
- Approved for Through Circuit Wiring: max. four (4) 12 AWG (2in/2out), wiring rated to at least 75°C
- Requires minimum 3-inch clearance around Housing from insulation material; thermal protection provided in case of improper insulation use

Performance Summary

- 2700K, 3000K, 3500K and 4000K CCTs; 80 CRI min., 83 typical; high 90+ CRI available
- 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 Specification Grade Trims in several different styles and finishes available
- Trimless options cannot be used with Remodel Style Housings
- UL8750 and Class 2 Compliant; RoHS Compliant, US only
- Assembled in the USA





Quantity

R6 SERIES | Trims for 6-Inch LED Downlights

FLANGED TRIM OPTIONS



C6322 - CLR
Clear Specular Reflector



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

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 C6323-PL* - Platinum Reflector

C6323-WHT - White Reflector

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



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

Quantity

Quantity



R6 SERIES | Trims for 6-Inch LED Downlights

FLANGED TRIM OPTIONS, CONTINUED



C6321-WHT-PLWhite 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



Ouantity

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

C6321-CLR-PL - Clear Refl./Platinum Lower Cone

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

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-P

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-CLR - Clear Refl./Clear Lower Cone

C6327-CLR-PL - Clear Refl./Platinum Lower Cone

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

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

Quantity

Quantity

Quantity



R6 SERIES | 6-Inch Round Downlight Photometrics

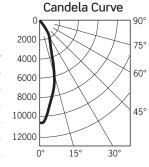
9.0

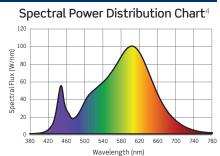
R6NC630K12D / C6322N-CLR

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

Intensity Distribution **BEAM** DISTANCE **FOOTCANDLES** DIAMETER (FT.) (FT.) 6 FT 295.2 3.4 8 FT 166.1 4.5 10 FT 106.3 5.7 12 FT 73.8 6.8 14 FT 54.2 7.9





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

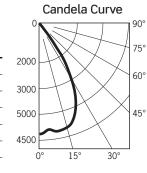
Designed for 50,000 Hour Lamp Life³ LM-63 Test No. G21070803 LM-79 Test No. S21072002

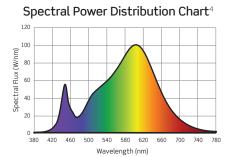
Intensity Distribution

41.5

16/FT

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	118.3	7.7
8 FT	66.5	10.2
10 FT	42.6	12.8
12 FT /	29.6	15.3
14 FT	21.7	17.9
16/FT	16.6	20.4





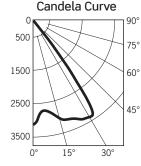
R6NC630K12D / C6322W-CLR

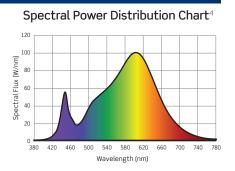
Fixture Delivered Lumens: 4197.4 Total Watts@120V: 45.0 Lumens Per Watt: 93.3 Center Beam Candle Power: 3135 Beam Distribution: 73.6° Spacing Criterion: 1.1 Color Rendering Index (CRI)¹: 83.4 Color Temperature (CCT)²: 3065K

Designed for 50,000 Hour Lamp Life³ LM-63 Test No. G21070806 LM-79 Test No. S21072002

Intensity Distribution

DISTANCE (FT.)	F00 ⁻	TCANDLE (FC)	S	BEAM DIAMETE (FT.)	R
6 FT		87.1		9.0	
8 FT		49.0		12.0	
10 FT		31.3		15.0	
12 FT /		21.8		17.9	
14 FT		16.0		20.9	
16/FT		12.2		23.9	





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:

CC	T MULTIPLI	ERS		TRIM MULTIPLIERS					
CCT	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							



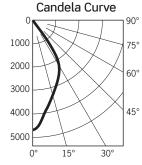
R6 SERIES | 6-Inch Round Downlight Photometrics

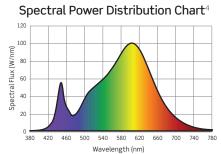
R6NC630K12D / C6322-PL

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

Intensity Distribution									
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)							
6 FT	148.3	6.7							
8 FT	83.4	9.0							
10 FT /	53.4	11.2							
12 FT /	37.1	13.5							
14 FT	27.2	15.7							
16/FT	20.8	17.9							





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:

CC	T MULTIPLI	ERS		TRIM MULTIPLIERS					
CCT	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		0.54				
4000K	1.0	0.87							





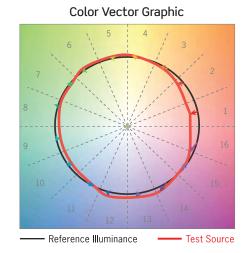
R6 SERIES | 6-Inch Round Downlight Photometrics

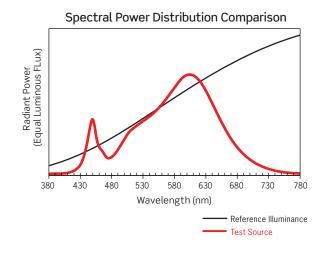
TM-30 DATA: R6NC630K12D / C6322M-CLR

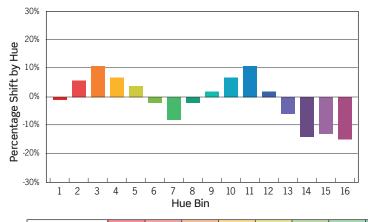
ANSI/IES TM-30-18 Color Rendition Report Test No. S21072002

Colors are for visual orientation purposes only

$\begin{array}{c|c} R_{_f} & 86 \\ R_{_g} & 97 \\ \hline CCT(K) & 3065K \\ D_{_{UV}} & 0.0017 \\ u^{_I} & 0.2477 \\ v^{_I} & 0.5224 \\ \end{array}$









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%	1%	7%	11%	2%	-6%	- 14%	-13%	-15%
R _f VALUE	81	82	79	88	93	93	87	94	91	85	83	88	89	82	80	80



TYPE PROJECT DATE

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	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

*277V Triac Dimming is not available

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.
 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.