

DATE

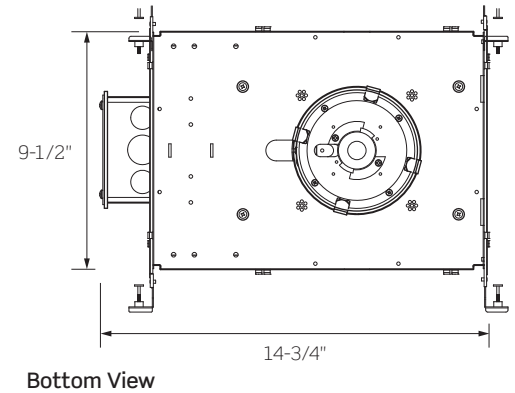
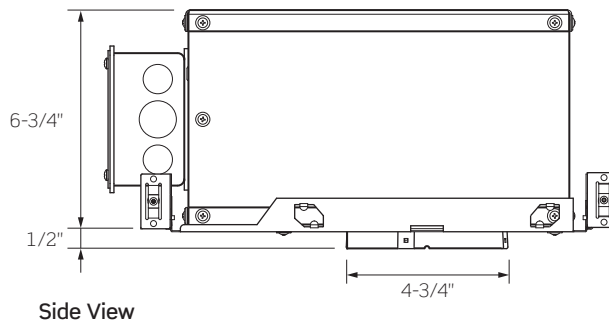
PROJECT

TYPE

R4IC SERIES | 4-Inch Round Insulated Ceiling (IC)/StopAire™ Housing



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



	R4IC1	R4IC2	R4IC3	R4IC4
WATTAGE	12W	16W	21W	30W
LUMEN OUTPUT ¹	1100Lm	1600Lm	2200Lm	3000Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K			
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	90-305VAC, 50/60Hz			
120V – 277V Standard Driver	90-305VAC, 50/60Hz			
347V Standard Driver	347VAC, 50/60Hz			
Lutron Eco-System® Driver	120-277VAC, 50/60Hz			
eldoLED ECOdrive / SOLOdrive	120-277VAC, 50/60Hz			
DRIVER POWER FACTOR	> 0.90			
TOTAL HARMONIC DISTORTION (THD)	< 20%			
LISTINGS	<p>cCSAus Certified to UL Standards; Suitable for Damp Locations</p> <p>ENERGY STAR® Certified:</p> <ul style="list-style-type: none"> - All wattages (Series 1 through 4) are ENERGY STAR® Certified - ENERGY STAR® Certified Trims: C4322-PL, CN4322-PL, C4322-WHT, CN4322-WHT, C4322-CLR and CN4322-CLR (all beam distributions); -C (Clear Lens) and -SL (Sandblast Lens) Wet Location approved trim options are not ENERGY STAR® Certified - 347V Option, Lutron and eldoLED Dimming Options are not ENERGY STAR® Certified <p>Conforms to Washington State Energy Code (WSEC) for Low Air Infiltration; tested in accordance with ASTM E283 (2.0 CFM or less)</p>			
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

DATE

PROJECT

TYPE

R4IC SERIES | 4-Inch Round Insulated Ceiling (IC)/StopAire™ Housing

ORDERING INFORMATION

Example Order:

Housing/LED Series	Color Temp/CRI	Electrical/Dimming
R4IC1 - 12W/1100lm	83 (80min) CRI	MVD¹ - 120-277V Triac, ELV, 0-10V Dimming
R4IC2 - 16W/1600lm	27K - 2700K	34D2 - 347V 0-10V Dimming
R4IC3 - 21W/2200lm	30K - 3000K	MVD4 - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black
R4IC4 - 30W/3000lm	35K - 3500K	MVD6² - 120-277V eldoLED ECOdrive, 0-10V 1% Dimming
	40K - 4000K	MVD7² - 120-277V eldoLED ECOdrive, DALI 1% Dimming
	90+ CRI	MVD8² - 120-277V eldoLED SOLOdrive, 0-10V 0.1% Dimming
	27KC - 2700K	MVD9² - 120-277V eldoLED SOLOdrive, DALI 0.1% Dimming
	30KC - 3000K	
	35KC - 3500K	
	40KC - 4000K	

1. Triac and ELV Dimming for 120V only

2. 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 4-Inch LED Downlights" Specification Sheet for compatible Trim information and details

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TYPE

R4IC SERIES | 4-Inch Round Insulated Ceiling (IC)/StopAire™ Housing

PRODUCT DETAILS

Construction

- Specification Grade 4-inch Round 16 Gauge Galvanized Steel Insulated Ceiling (IC)/StopAire™ Housing with Die-Cast Aluminum Heat Sink
- Quick-connect Light Engine
- 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 Concentric Knockouts
- Output over-voltage, over-current and short circuit protection
- Approved for Through Circuit Wiring: max. eight (8) 12 AWG (4in/4out)
- For use in applications with direct contact with insulation materials

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 R4 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 (MF4, 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 (R4RM) or with Slope Ceiling Adapters (RSA4L)
- UL8750 and Class 2 Compliant; RoHS Compliant, US only
- Assembled in the USA

DATE

PROJECT

TYPE

R4 SERIES | Trims for 4-Inch LED Downlights

TRIMMED OPTIONS



C4322-PL
Platinum Reflector



C4322DF-SL
Satin Silver Painted Reflector



C4322 Series

Specification Grade Reflector

4-3/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height

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



C4322DF Series

ISOWET Dead Front Reflector Trim

4-3/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height

Isolated, Wet Location approved Thermoplastic Reflector with Clear Glass Lens deeply regressed inside top of Reflector.

C4322N-CLR* - 35° Narrow Beam
Clear Specular Reflector

Quantity

C4322M-CLR* - 51° Medium Beam
Clear Specular Reflector

C4322W-CLR* - 80° Wide Beam
Clear Specular Reflector

C4322-PL* - 59° Platinum Reflector

C4322-PLWHE - 59° Platinum Wheat Reflector

C4322-WHT - 70° White Reflector

**Available with White Painted Flange, add “-WPF” to end of part number*



C4323-CLR
Clear Reflector

C4323 Series

Lensed Wall Wash Reflector Trim

4-Inch ID; 5-11/16-Inch OD

C4322DF-SL* - Satin Silver Paint

C4322DF-WHT - Matte White Paint

**Available with White Painted Flange, add “-WPF” to end of part number*

Quantity



CTR4325L-WHT-P
Floating Glass Disc
White Reflector



CTR4326L-CLR-P
Floating Glass Ring
Clear Reflector

CTR432*L Series

Floating Glass Reflector

4-3/8-Inch ID; 6-Inch OD

White Reflector with Floating Glass Disc, Clear Reflector with Floating Glass Ring; 1-1/4-inch drop from ceiling. Glass Ring has 3-1/2-inch center hole.

C4323-CLR* - Clear Reflector

C4323-PL* - Platinum Reflector

C4323-WHT - White Reflector

**Available with White Painted Flange, add “-WPF” to end of part number*

Quantity

CTR4325L-WHT-P - Floating Glass Disc/
White Reflector

CTR4326L-CLR-P - Floating Glass Ring/
Clear Reflector

Quantity

: These Model Options are eligible for **SpeedShip**

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PROJECT

TYPE

R4 SERIES | Trims for 4-Inch LED Downlights

TRIMMED OPTIONS, CONTINUED



C4321-WHT-PL

White Reflector/Platinum Lower Cone



C4321-WHT-B

White Reflector/Black Baffle



C4321 Cone Series

Two Piece Reflector with Lower Cone and Flat Lens
3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch Height

Two Piece Reflector: Upper Reflector with Lower Cone. Includes one (1) LF20-CL Clear Glass Lens. Approved for Wet Locations when Glass Lens is installed.



C4321 Baffle Series

Two Piece Reflector with Lower Baffle and Flat Lens
3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch Height

Two Piece Reflector: Upper Reflector with Lower Baffle. Includes one (1) LF20-CL Clear Glass Lens. Approved for Wet Locations when Glass Lens is installed.

- | | |
|---|-----------------|
| C4321-CLR-CLR - Clear Reflector/
Clear Lower Cone | Quantity |
| C4321-CLR-PL - Clear Reflector/Platinum Lower Cone | |
| C4321-WHT-CLR - White Reflector/Clear Lower Cone | |
| C4321-WHT-PL - White Reflector/Platinum Lower Cone | |

- | | |
|---|-----------------|
| C4321-CLR-B - Clear Reflector/Black Lower Baffle | Quantity |
| C4321-CLR-P - Clear Reflector/White Lower Baffle | |
| C4321-WHT-B - White Reflector/Black Lower Baffle | |
| C4321-WHT-P - White Reflector/White Lower Baffle | |



C4327-CLR-PL

Clear Reflector/Platinum Lower Cone/
Regressed Prismatic Convex Lens



C4327-CLR-P

Clear Reflector/White Lower Baffle/
Regressed Prismatic Convex Lens



C4327 Cone Series

*Two Piece Reflector:
Lower Cone with Prismatic Convex Lens*
3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch Height

Two Piece Reflector with Lens: Upper Reflector with Lower Cone and Prismatic Convex Lens. Lens has 1-1/2-inch regress. Wet Location Listed.



C4327 Baffle Series

*Two Piece Reflector:
Lower Baffle with Prismatic Convex Lens*
3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch Height

Two Piece Reflector with Lens: Upper Reflector with Lower Baffle and Regressed Prismatic Convex Lens. Lens has 1-1/2-inch regress. Wet Location Listed.

- | | |
|---|-----------------|
| C4327-CLR-CLR - Clear Reflector/
Clear Lower Cone | Quantity |
| C4327-CLR-PL - Clear Reflector/Platinum Lower Cone | |
| C4327-WHT-CLR - White Reflector/Clear Lower Cone | |
| C4327-WHT-PL - White Reflector/Platinum Lower Cone | |

- | | |
|---|-----------------|
| C4327-CLR-B - Clear Reflector/Black Lower Baffle | Quantity |
| C4327-CLR-P - Clear Reflector/White Lower Baffle | |
| C4327-WHT-B - White Reflector/Black Lower Baffle | |
| C4327-WHT-P - White Reflector/White Lower Baffle | |

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PROJECT

TYPE

R4 SERIES | Trims for 4-Inch LED Downlights

TRIMLESS OPTIONS

Trimless Options require use of Mud Frame accessory (MF4, ordered separately)



CN4322 *- CLR
Specular Clear Reflector
Multiple Beam Spreads



CN4322-PL
Platinum Reflector



CN4322 Series

Specification Grade Trimless Reflector
4-3/8-Inch ID; 4-3/4-Inch OD. 4-3/8-Inch Height

Specification Grade Specular Reflector. **Trim cannot be used on Remodel Housings (R4RM) or with Slope Ceiling Adapters (RSA4L). For use with 1/2- to 1-inch ceiling thicknesses only.** For Wet Location approved trim, add “-C” for Clear Lens or “-SL” for Sandblast Lens after finish code.

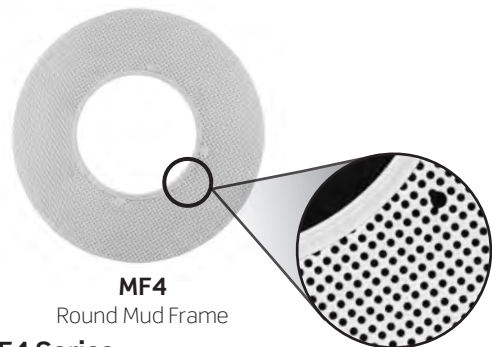
CN4323 Series

Trimless Lensed Wall Wash Reflector Trim
4-Inch ID; 4-3/4-Inch OD

Trim cannot be used on Remodel Housings (R4RM) or with Slope Ceiling Adapters (RSA4L). For use with 1/2- to 1-inch ceiling thicknesses only.

	Quantity
CN4322N-CL - 35° Narrow Beam Clear Reflector	
CN4322M-CLR - 51° Medium Beam Clear Reflector	
CN4322W-CLR - 80° Wide Beam Clear Reflector	
CN4322-PL - 59° Platinum Reflector	
CN4322-WHT - 70° White Reflector	

	Quantity
CN4323-CLR - Clear Reflector	
CN4323-PL - Platinum Reflector	
CN4323-WHT - White Reflector	



MF4

Round Mud Frame

MF4 Series

Round Mud Frame

10-Inch OD

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

MF4- 4-Inch Mud Frame	Quantity

DATE

PROJECT

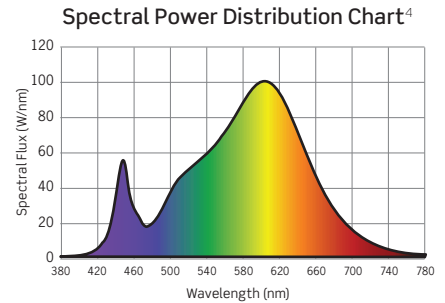
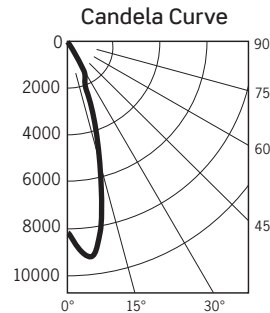
TYPE

R4 SERIES | 4-Inch Round Downlight Photometrics

R4NC630K12D / C4322N-CLR

Fixture Delivered Lumens: 4105.5
 Total Watts@120V: 45.2
 Lumens Per Watt: 90.8
 Center Beam Candle Power: 8153
 Beam Distribution: 35.5°
 Spacing Criterion: 0.60
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21070604
 LM-79 Test No. S21072001

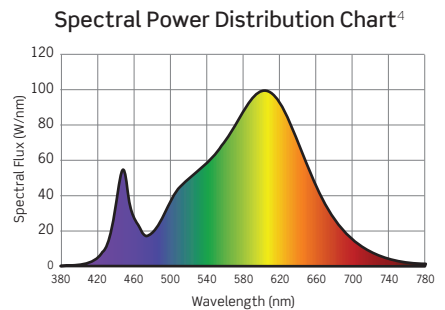
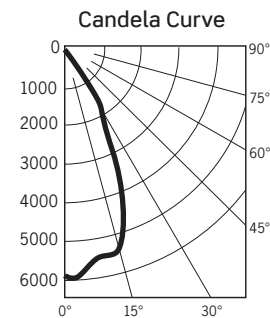
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	226.5	3.8
8 FT	127.4	5.1
10 FT	81.5	6.4
12 FT	56.6	7.7
14 FT	41.6	9.0
16 FT	31.8	10.2



R4NC630K12D / C4322M-CLR

Fixture Delivered Lumens: 4176.6
 Total Watts@120V: 45.2
 Lumens Per Watt: 92.4
 Center Beam Candle Power: 5860
 Beam Distribution: 51.2°
 Spacing Criterion: 0.79
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21070605
 LM-79 Test No. S21072001

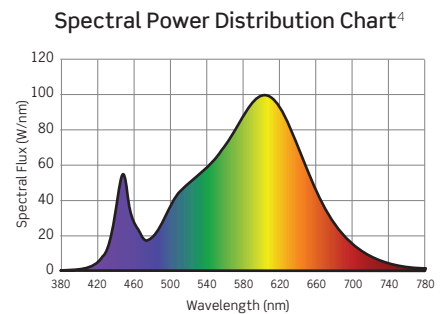
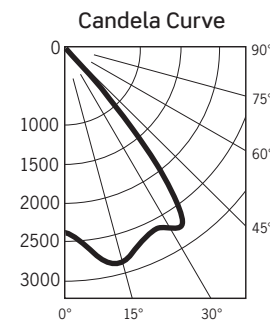
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	162.8	5.8
8 FT	91.6	7.7
10 FT	58.6	9.6
12 FT	40.7	11.5
14 FT	29.9	13.4
16 FT	22.9	15.3



R4NC630K12D / C4322W-CLR

Fixture Delivered Lumens: 4220.8
 Total Watts@120V: 45.2
 Lumens Per Watt: 93.4
 Center Beam Candle Power: 2402
 Beam Distribution: 80.0°
 Spacing Criterion: 1.2
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21070602
 LM-79 Test No. S21072001

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	66.7	10.1
8 FT	37.5	13.4
10 FT	24.0	16.8
12 FT	16.7	20.2
14 FT	12.3	23.5
16 FT	9.4	26.9



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:

CCT MULTIPLIERS			OUTPUT MULTIPLIERS					TRIM MULTIPLIERS	
CCT	STD CRI	HIGH CRI	12W/SERIES 1	16W/SERIES 2	21W/SERIES 3	30W/SERIES 4	38W/SERIES 5	C4322-PL	C4322-WHT
2700K	0.94	0.70	0.28	0.39	0.54	0.72	0.89	0.91	0.93
3000K	N/A	0.75							
3500K	1.0	0.81							
4000K	1.0	0.87							

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PROJECT

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R4 SERIES | 4-Inch Round Downlight Photometrics

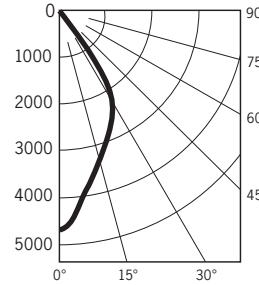
R4NC630K12D / C4322-PL

Fixture Delivered Lumens: 3781.4
 Total Watts@120V: 45.2
 Lumens Per Watt: 83.7
 Center Beam Candle Power: 4724
 Beam Distribution: 59.0°
 Spacing Criterion: 0.91
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21070601
 LM-79 Test No. S21072001

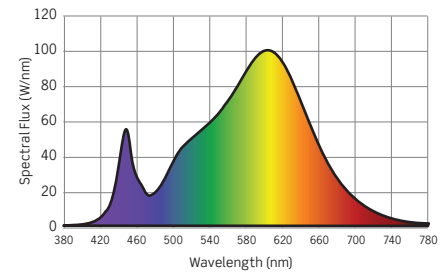
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	131.2	6.8
8 FT	73.8	9.0
10 FT	47.2	11.3
12 FT	32.8	13.5
14 FT	24.1	15.8
16 FT	18.5	18.1

Candela Curve



Spectral Power Distribution Chart⁴



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 MULTIPLIERS			OUTPUT MULTIPLIERS					TRIM MULTIPLIERS	
CCT	STD CRI	HIGH CRI	12W/SERIES 1	16W/SERIES 2	21W/SERIES 3	30W/SERIES 4	38W/SERIES 5	C4322-PL	C4322-WHT
2700K	0.94	0.70	0.28	0.39	0.54	0.72	0.89	0.91	0.93
3000K	N/A	0.75							
3500K	1.0	0.81							
4000K	1.0	0.87							

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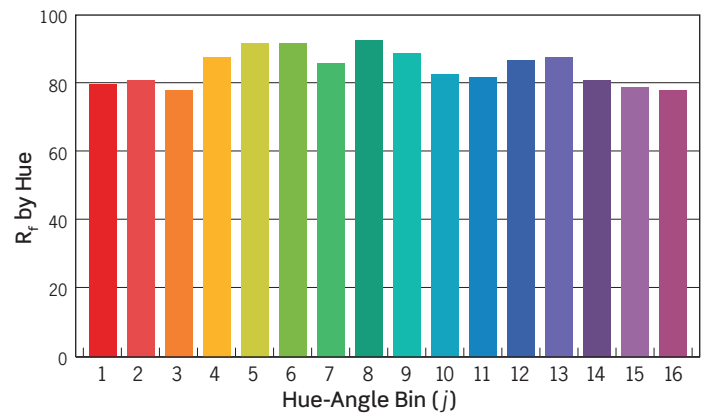
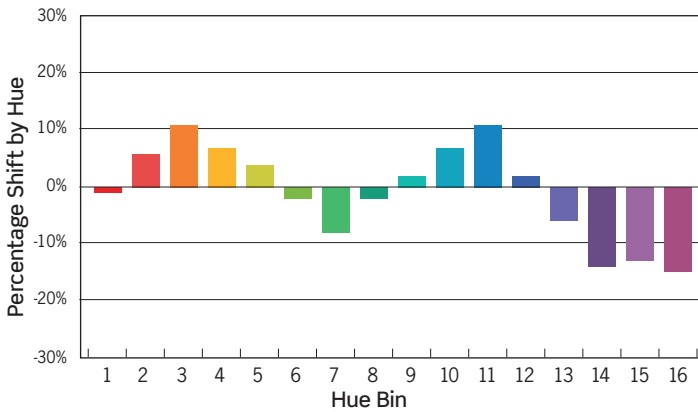
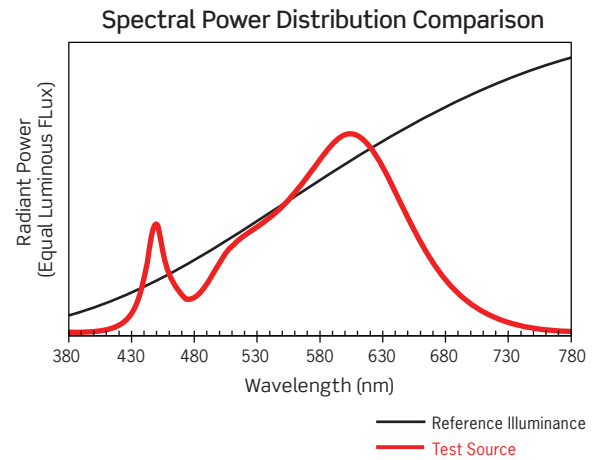
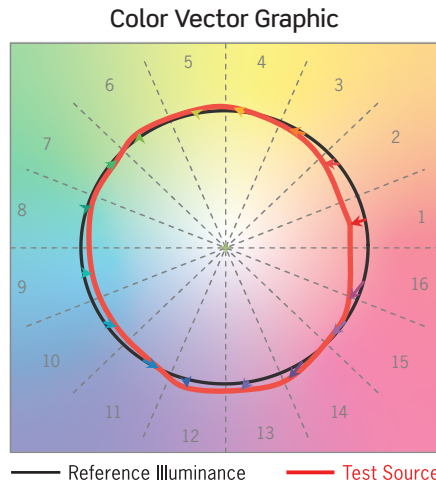
R4 SERIES | 4-Inch Round Downlight Photometrics

TM-30 DATA: R4NC630K12D / C4322M-CLR

ANSI/IES TM-30-18 Color Rendition Report Test No. S21072001

Colors are for visual orientation purposes only

R_f	86
R_g	97
CCT(K)	3079K
D_{uv}	0.0016
u^l	0.2473
v^l	0.5220



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%	11%	2%	-6%	-14%	-13%	-15%
R_f VALUE	81	82	79	89	93	93	87	94	90	84	83	88	89	82	80	79

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R4 SERIES | 4-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 Pink/Gray.
- 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).

			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	Faetra	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.
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.