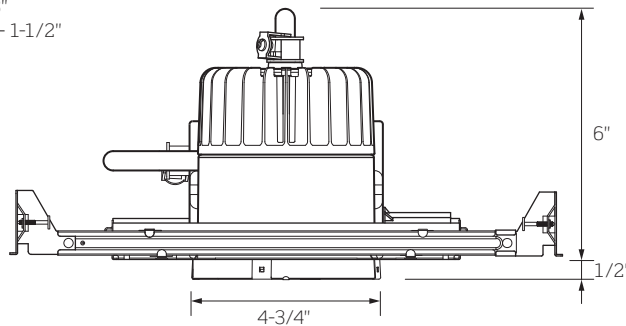


R4NC SERIES | 4-Inch Round Universal New Construction Downlight

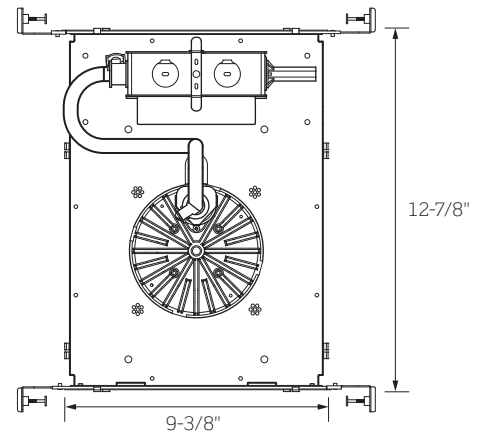


Ceiling Opening: 4-7/8"
Ceiling Thickness: 1/2" - 1-1/2"

Side View



Top View



cCSAus
Listed



Damp
Location



ENERGY STAR®
Certified



UL924
Certified

	R4NC1	R4NC2	R4NC3	R4NC4	R4NC5	R4NC6
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+					
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	120VAC / 277VAC, 50/60Hz					
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 Damp Locations cCSAus Certified to UL924 Standard for Emergency Lighting when specified with the Emergency Battery Backup option ENERGY STAR® Certified					
WARRANTY	Five (5) year replacement after date of purchase Emergency Battery Backup option covered by a one (1) year replacement guarantee 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

R4NC SERIES | 4-Inch Round Universal New Construction Downlight

ORDERING INFORMATION

Example Order: R4NC130K12D-ER

Housing/LED Series	Color Temp/CRI	Electrical	Dimming	Options
R4NC1 12W/1100lm	83 (80min) CRI 90 CRI	12 120V	D1 Forward/Reverse Phase/0-10V Dimming	ER6 Factory Installed 7W/200mA Emergency Battery Backup; Remote Test Switch
R4NC2 16W/1600lm	27K 2700K 27KC 2700K	27 277V	D22 347V 0-10V Dimming	
R4NC3 21W/2200lm	30K 3000K 30KC 3000K	341 347V	D43 Lutron Hi-lume 1% EcoSystem Driver with Soft-on, Fade-to-Black	
R4NC4 30W/3000lm	35K 3500K 35KC 3500K		D64 eldoLED ECOdrive, 0-10V, 1% Dimming	
R4NC5 38W/3700lm	40K 4000K 40KC 4000K		D74 eldoLED ECOdrive, DALI, 1% Dimming	
R4NC6 45W/4100lm			D84 eldoLED SOLOdrive, 0-10V, 0.1% Dimming	
			D94 eldoLED SOLOdrive, DALI, 0.1% Dimming	
			DMX45 eldoLED POWERdrive, DMX 0.0% Dimming	

1. Forward/Reverse Phase Dimming for 120V only

2. 0-10V Dimming only dimming available for 347V option; cannot be used with Emergency Battery Backup 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. 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

6. Emergency Battery Backup option: 725 lumen nominal average for all wattages

ACCESSORY ORDERING INFORMATION

Mounting Accessories
<i>Standard Hanger Bars Supplied with Housing</i>
HB-30 T-Bar Hanger Set
RL-KIT Commercial Mounting Brackets
HB-24 27-Inch Flat Hanger Bars for RL-KIT
HBC-24 25-Inch C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction

4-Inch Slope Ceiling Adapters
RSA4L-5-WHT 5° Pitch
RSA4L-10-WHT 10° Pitch
RSA4L-15-WHT 15° Pitch
RSA4L-20-WHT 20° Pitch
RSA4L-25-WHT 25° Pitch
RSA4L-30-WHT 30° Pitch

See page 3 for compatible Trim information and details

PRODUCT SPECIFICATIONS

CONSTRUCTION

- Specification Grade 4-inch Round 16 Gauge Galvanized Steel New Construction Housing with Die-Cast Aluminum Heat Sink
- Quick-connect Light Engine; Drivers are fully accessible from below the ceiling and can be easily removed
- Requires minimum 3-inch clearance around Housing from insulation material; thermal protection provided in case of improper insulation use
- 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 three (3) 1/2-inch convenient Screwdriver Pry-outs and one (1) 1/2- x 3/4-inch concentric Knockout
- Output over-voltage, over-current and short circuit protection
- Approved for Through Circuit Wiring: max. eight (8) 12 AWG (4in/4out), 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
- 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 thickness only
- Trimless options cannot be used on Remodel Style Housings (R4RM) or with RSA4L Slope Ceiling Adapters
- UL8750 and Class 2 Compliant; RoHS Compliant, US only

R4 SERIES | Trims for 4-Inch Round Downlights

TRIMMED OPTIONS



C4321-WHT-PL



C4321-WHT-B



C4321 Series: Cone Series

Two Piece Reflector with Lower Cone

- 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

Trim	
C4321-CLR-CLR	Clear Reflector/Clear Lower Cone
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 Series: Baffle Series

Two Piece Reflector with Lower Baffle

- 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

Trim	
C4321-CLR-B	Clear Reflector/Black Lower Baffle
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



C4327-CLR-P



C4321 Series: Cone Series

Two Piece Reflector with Lower Cone and Prismatic Convex Lens

- 3-7/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height
- Two Piece Reflector: Upper Reflector with Lower Cone and Prismatic Convex Lens
- Lens has 1-1/2-inch regress
- Approved for Wet Locations

Trim	
C4327-CLR-CLR	Clear Reflector/Clear Lower Cone
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 Series: Baffle Series

Two Piece Reflector with Lower Baffle and Prismatic Convex Lens

- 3-7/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height
- Two Piece Reflector: Upper Reflector with Lower Baffle and Regressed Prismatic Convex Lens
- Lens has 1-1/2-inch regress
- Approved for Wet Locations

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

R4 SERIES | Trims for 4-Inch Round Downlights

TRIMMED OPTIONS



C4322-CLR



C4322DF-SL



C4322 Series

Specification Grade Reflector

- 4-3/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height
- For Wet Location approved trim, add "-C" for Clear Lens or "-SL" for Sandblast Lens after finish code
- White Painted Flange available for -CLR and -PL finish trims; add "-WPF" to the end of the part number



C4322DF Series

ISOWET Dead Front Reflector

- 4-3/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height
- Isolated, Wet Location approved Thermoplastic Reflector
- Clear Glass Lens deeply regressed inside top of Reflector

Trim	
C4322N-CLR ¹	35° Narrow Beam Clear Specular Reflector
C4322M-CLR ¹	51° Medium Beam Clear Specular Reflector
C4322W-CLR ¹	80° Wide Beam Clear Specular Reflector
C4322-PL ¹	59° Platinum Reflector
C4322-PLWHE	59° Platinum Wheat Reflector
C4322-WHT	70° White Reflector

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

Trim	
C4322DF-SL ¹	Satin Silver Painted Dead Front Reflector
C4322DF-WHT	Matte White Painted Dead Front Reflector

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



C4323-CLR

C4323 Series

Lensed Wall Wash Reflector

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

Trim	
C4323-CLR ¹	Clear Reflector
C4323-PL ¹	Platinum Reflector
C4323-WHT	White Reflector

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

R4 SERIES | Trims for 4-Inch Round Downlights

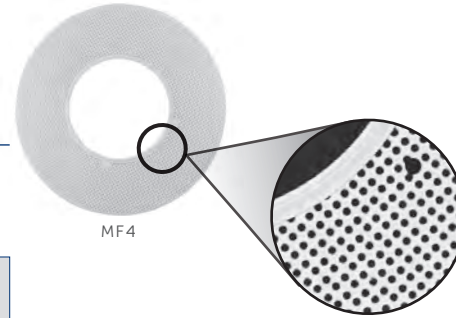
MUD FRAME

NOTE: The Mud Frame is required for trimless applications

Mud Frame

- Die-cast ring with steel mesh frame, painted white
- 10-Inch Outer Diameter
- Required for trimless applications

Mud Frame
MF4



TRIMLESS OPTIONS



CN4322-CLR



CN4322 Series

Specification Grade Trimless Reflector

- 4-3/8-Inch ID, 4-3/4-Inch OD, 4-3/8-Inch Height
- For Wet Location approved trim, add “-C” for Clear Lens or “-SL” for Sandblast Lens after finish code
- For use with 1/2- to 1-inch ceiling thicknesses only
- **Trim cannot be used on Remodel Housings (R4RM) or with Slope Ceiling Adapters (RSA4L)**

Trim
CN4322N-CLR 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

Lens Options
No Lens, Leave Blank
C Clear
SL Sandblast



CN4323-PL

CN4323 Series

Trimless Wall Wash Reflector with Lens

- 4-Inch ID, 4-3/4-Inch OD
- For use with 1/2- to 1-inch ceiling thicknesses only
- **Trim cannot be used on Remodel Housings (R4RM) or with Slope Ceiling Adapters (RSA4L)**

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

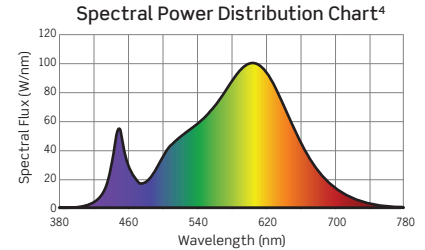
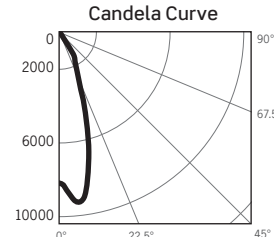
R4 SERIES | 4-Inch Round Downlight Photometrics

R4NC630K12D / C4322N-CLR: 3000K, 80 CRI, CLEAR REFLECTOR, NARROW BEAM

LM-63 Test No. G21070604; LM-79 Test No. S21072001

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

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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

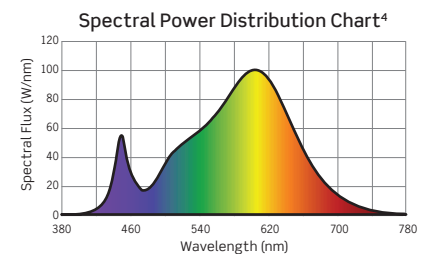
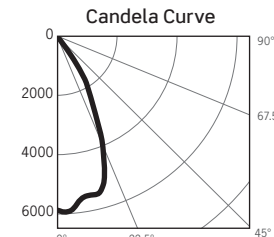


R4NC630K12D / C4322M-CLR: 3000K, 80 CRI, CLEAR REFLECTOR, MEDIUM BEAM

LM-63 Test No. G21070605; LM-79 Test No. S21072001

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

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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

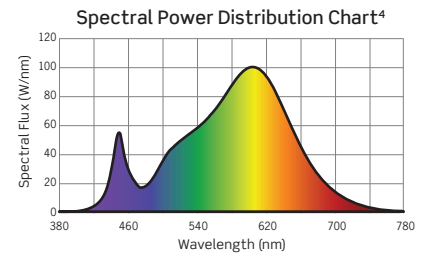
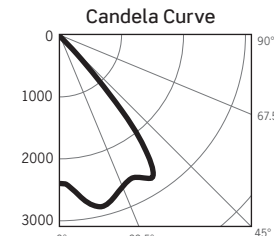


R4NC630K12D / C4322W-CLR: 3000K, 80 CRI, CLEAR REFLECTOR, WIDE BEAM

LM-63 Test No. G21070602; LM-79 Test No. S21072001

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

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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

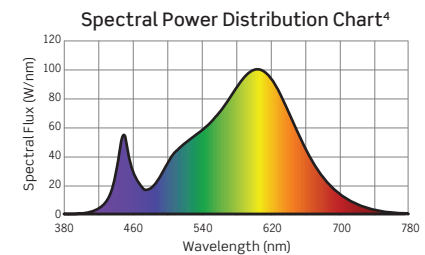
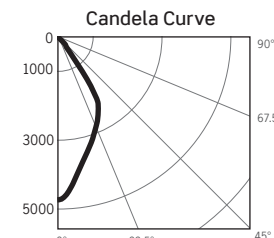


R4NC630K12D / C4322-PL: 3000K, 80 CRI, PLATINUM REFLECTOR, MEDIUM BEAM

LM-63 Test No. G21070601; LM-79 Test No. S21072001

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

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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



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		
CCT	STANDARD CRI	HIGH (90+) 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
0.28	0.39	0.54	0.72	0.89

TRIM MULTIPLIERS	
C4322-PL	C4322-WHT
0.91	0.93

R4 SERIES | 4-Inch Round Downlight Photometrics

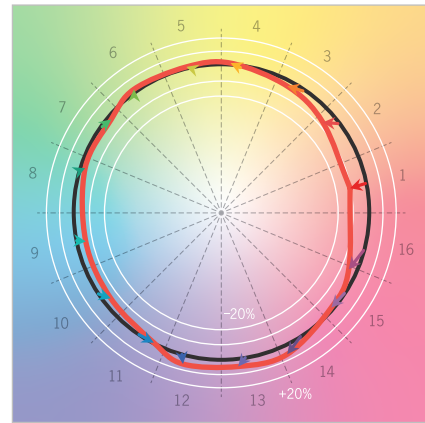
TM-30 DATA: R4NC630K12D / C4322M-CLR

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

Colors are for visual orientation purposes only

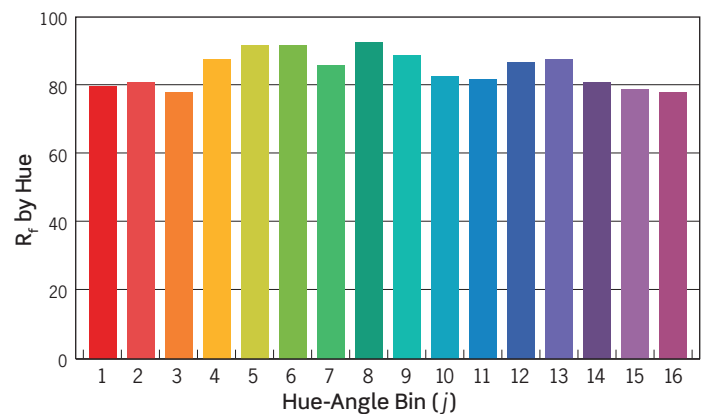
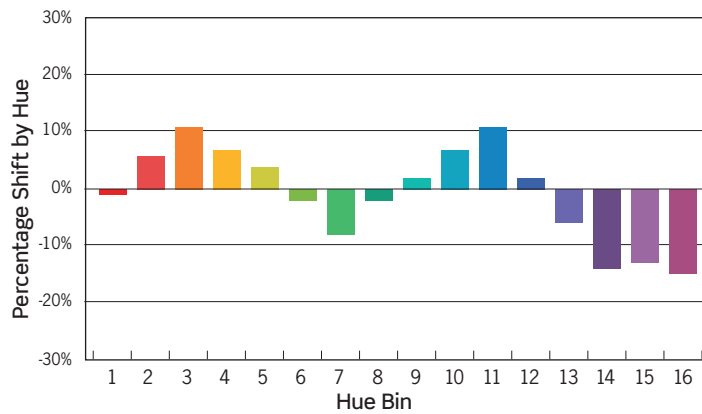
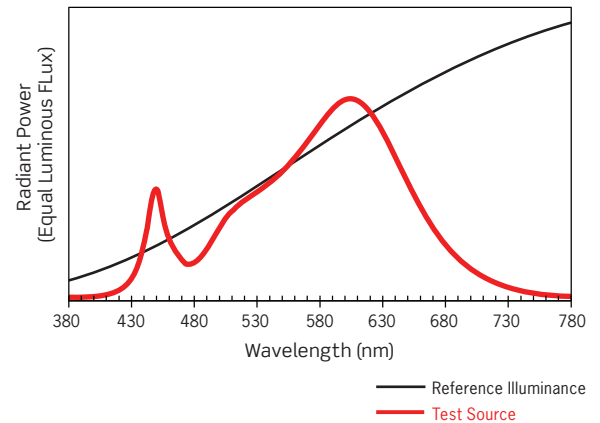
R_f	86
R_g	97
CCT(K)	3079K
D_{uv}	0.0016
u'	0.2473
v'	0.5220

Color Vector Graphic



— Reference Illuminance — Test Source

Spectral Power Distribution Comparison



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

R4 SERIES | 4-Inch Round Downlights: Dimming Specifications

Manufacturer	Product	Model	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)
			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 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

- 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.
- Dimmer Maximum Load Rating with LED may differ from published Traditional Source Dimmer Ratings. Consult manufacturer for maximum Dimmer information.
- Consult factory for additional dimming information.