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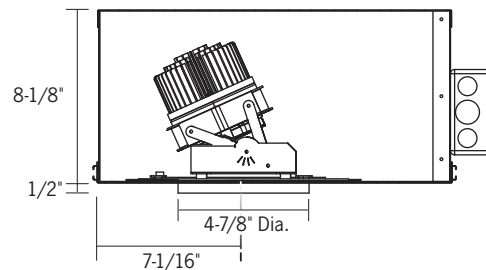
PROJECT

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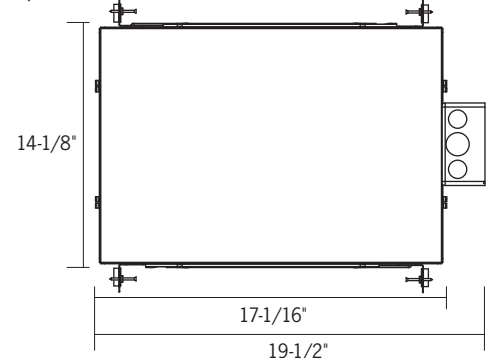
R4A SERIES | 4-Inch Round Adjustable Downlights: R4AIC Insulated Ceiling (IC)/StopAire™ Housing



Side View







Top View



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

For 37W/2600lm and 44W/3000lm LED Series, use the R4ANC Series Specification Sheet

	R4AIC1	R4AIC2	R4AIC3	R4AIC4
WATTAGE	12W	15W	21W	29W
LUMEN OUTPUT ¹	800Lm	1100Lm	1600Lm	2100Lm
BEAM SPREAD	16° Spot / 36° Medium / 51° Flood			
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K			
CRI	83 (80min) / 90+			
INPUT WATTAGE	12W	15W	21W	29W
INPUT CURRENT (A) 120V/277V	.08A/.04A	.12A/.06A	.17A/.08A	.23A/.11A
INPUT VOLTAGE	90-305VAC, 50/60Hz			
Standard Driver (Triac, ELV, 0-10V)	120VAC, 50/60Hz			N/A
Lutron HiLume® Driver	120VAC / 277VAC, 50/60Hz			N/A
Lutron Eco-System® Driver	120VAC / 277VAC, 50/60Hz			N/A
eldoLED ECOdrive	120VAC / 277VAC, 50/60Hz			N/A
eldoLED SOLOdrive	120VAC / 277VAC, 50/60Hz			N/A
DRIVER POWER FACTOR	> 0.90			
TOTAL HARMONIC DISTORTION (THD)	< 20%			
LISTINGS	<div>     </div> <p>cSAus Certified using US (UL) and Canadian (CSA) standards Suitable for Damp Locations cSAus Certified to UL924 Standard for Emergency Lighting when specified with the Emergency Battery Backup option Conforms to Washington State Energy Code (WSEC) for Low Air Infiltration; tested in accordance with ASTM E283 (2.0 CFM or less) Chicago Plenum Housings are CCEA listed; not for use in Insulated Ceilings (IC)</p>			
WARRANTY	<p>Five (5) year replacement after date of purchase Emergency Battery Backup option covered by a one (1) year replacement guarantee after date of purchase</p>			
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance			

1. Lumen values are approximate, see photometric test results

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R4A SERIES | 4-Inch Round Adjustable Downlights: R4AIC Insulated Ceiling (IC)/StopAire™ Housing

ORDERING INFORMATION

Example Order: R4AIC127KMVDM – ER

For 37W/2600lm and 44W/3000lm LED Series, use the R4ANC Series Specification Sheet

Housing/LED Series	Color Temp/CRI	Dimming	Beam Dist.	Options
R4AIC1 - 12W/800lm	83 (80min) CRI	MVD1 ¹ - Triac, ELV, 0-10V Dimming	S - 16° Spot	ER ^{3,4} - Factory Installed
R4AIC2 - 15W/1100lm	27K - 2700K		M - 36° Medium	7W/200mA
R4AIC3 - 21W/1600lm	30K - 3000K	12D3 ² - Lutron Hi-lume 1% 2-Wire Driver (120V Forward Phase Only)	F - 51° Flood	Emergency
R4AIC4 - 29W/2100lm	35K - 3500K			Battery Backup
	40K - 4000K	MVD4 - Lutron Hi-lume 1% EcoSystem Driver with Soft-on, Fade-to-Black		[Remote Test Switch]
	90+ CRI	MVD6 - eldoLED ECOdrive 0-10V, 1% Dimming		
	27KC - 2700K	MVD7 - eldoLED ECOdrive DALI, 1% Dimming		
	30KC - 3000K	MVD8 - eldoLED SOLOdrive 0-10V, 0.1% Dimming		
	35KC - 3500K	MVD9 - eldoLED SOLOdrive DALI, 0.1% Dimming		
	40KC - 4000K			

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 (29W)

3. Emergency Battery Backup Option cannot be used in Chicago Plenum applications

4. 600 Lumen nominal average for Emergency Battery Backup Option

Accessories

Standard Hanger Bars Supplied with Housing

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

Replacement Optics, Lenses and Louvers

ADJOPT-S - 16° Spot Beam Interchangeable Optic

ADJOPT-M - 36° Medium Beam Interchangeable Optic

ADJOPT-F - 51° Flood Beam Interchangeable Optic

FA-57 - Black Accessory Holder Clip
Accepts Two (2) Media

LA-36-83MM - 3-3/8-Inch Dia. Black Honeycomb Louver
Requires FA-57 Accessory Holder

LF20- 86MM** - 3-3/8-Inch Dia. Tempered Glass Lenses;
Requires FA-57 Accessory Holder

*Tempered Glass Lens Color/Pattern Legend

-73 (Spread Lens), -LS (Linear Spread Lens), -SL (Soft Light), -SOL (Solite),
-UV (Optivex UV Filter), -A (Amber), -B (Blue), -CL (Clear), -DPE (Dichroic Peach), -G (Green),
-LB (Light Blue), -R (Red), -RO (Rose), -Y (Yellow)

See “Trims for 4-Inch Adjustable LED Downlights” Specification Sheet for compatible Trim information and details

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PROJECT

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R4A SERIES | 4-Inch Round Adjustable Downlights: R4AIC Insulated Ceiling (IC)/StopAire™ Housing

PRODUCT DETAILS

Construction

- Specification Grade 4-inch Round 16 Gauge Galvanized Steel New Construction Insulated Ceiling (IC) Air Tight Housing with Die-Cast Aluminum Heat Sink
- Housing is painted matte black inside and out
- Rated for Insulated Ceiling (IC) and StopAire™ applications; can be used in slope ceiling applications
- Housing aperture can be adjusted 1/4-inch in each direction post installation to ease fixture alignment
- Quick-connect LED Module design enables easy installation and removal; can be accessed from above or below the ceiling
- Class 2 Output LED Drivers are fully accessible from below the ceiling and can be easily removed
- Housing has a removable cover when Module and Driver access from above the ceiling is required
- Adjustment Mechanism is constructed of 16 Gauge sheet metal and Die-Cast Aluminum, painted matte black
- White graduation marks are painted every 15° on the adjustment mechanism for consistent aiming; 360° rotational adjustment
- The adjustment mechanism allows 45° of tilt and is fully lockable
- 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 Knockouts 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 rated to 90°C
- Housing can be used in direct contact with insulation materials

Performance Summary

- 2700K, 3000K, 3500K and 4000K Color Temperatures; 80 CRI min., 83 typical; high CRI of 90+ available
- Excellent fixture-to-fixture color consistency with a 3-step MacAdam Ellipse tolerance
- Engineering grade thermoplastic housing with spring steel clip support the glass TIR optics
- 16° Spot, 36° Medium and 51° Flood beam distributions; optics are interchangeable and can be field replaced
- FA-57 Black Accessory Holder Clips can support two (2) media
- All R4A Downlights are available for non-dimming and dimming applications; for compatible Dimmers, refer to the Dimming Specification Sheet
- Specification Grade Trims in several different styles and finishes available
- **NOTE:** R4A Series and R4 Series Trims are **NOT** compatible with each other
- UL8750 and Class 2 Compliant; RoHS Compliant, US only
- Assembled in the USA

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PROJECT

TYPE

R4A SERIES | Trims for 4-Inch Round Adjustable Downlights

TRIM OPTIONS



C4304-CLR

Clear Specular Angle-Cut Reflector

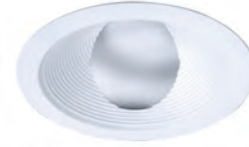


C4304 Series

Specification Grade Angle-Cut Reflector with Solite Lens

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

Specification Grade Reflector. Wet Location approved.



C4304BF-WHT

Painted Matte White Baffle



C4304BF Series

Specification Grade Angle-Cut Baffle with Solite Lens
4-3/8-Inch ID, 5-11/16-Inch OD

Specification Grade Reflector. Wet Location approved.

C4304-CLR* - Clear Specular Angle-Cut Reflector **Quantity**
C4304-PL* - Platinum Angle-Cut Reflector
C4304-WHT - Painted Matte White Angle-Cut Reflector
**Available with White Painted Flange, add "-WPF" to end of part number*

C4304BF-BLK - Painted Matte Black Baffle **Quantity**
C4304BF-WHT - Painted Matte White Baffle



C4302-CLR

Clear Specular Full Cone Reflector



C4302 Series

Specification Grade Full Cone Reflector
4-3/8-Inch ID, 5-11/16-Inch OD

Accepts one (1) LA-45 Black Honeycomb Louver or (1) LF20 Tempered Glass Lens. Wet Location approved when used with LF20 Lens.



C4304BF-WHT

Painted Matte White Baffle



C4301 Series

Full Cone Baffle
4-3/8-Inch ID, 5-11/16-Inch OD

Accepts one (1) LA-45 Black Honeycomb Louver or (1) LF20 Tempered Glass Lens. Wet Location approved when used with LF20 Lens.

C4302-CLR* - Clear Specular Full Cone Reflector **Quantity**
C4302-PL* - Platinum Full Cone Reflector
C4302-WHT - Painted Matte White Full Cone Reflector
**Available with White Painted Flange, add "-WPF" to end of part number*

C4301-BLK - Painted Matte Black Full Cone Baffle **Quantity**
C4301-WHT - Painted Matte White Full Cone Baffle

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R4A SERIES | Trims for 4-Inch Round Adjustable Downlights

TRIM OPTIONS



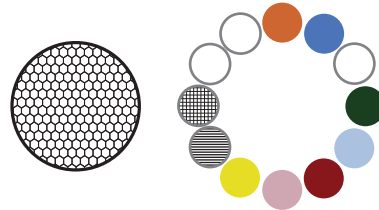
C4305-WHT

Painted Matte White Pinhole Trim

C4305 Series

Pinhole Trim

2-1/4-Inch ID; 5-5/8-Inch OD



C430* Series Trims Accessories

C4305-BLK - Painted Matte Black Pinhole Trim

C4305-WHT - Painted Matte White Pinhole Trim

Quantity

LA-45 - 3-25/32-Inch Dia.
Black Honeycomb Louver

LF20--** 3-3/4-Inch Dia.
Tempered Glass Lenses

Quantity

*Tempered Glass Lens Color/Pattern Legend

-73 (Spread Lens), **-LS** (Linear Spread Lens), **-SL** (Soft Light), **-SOL** (Solite), **-UV** (Optivex UV Filter),
-A (Amber), **-B** (Blue), **-CL** (Clear), **-DPE** (Dichroic Peach), **-G** (Green), **-LB** (Light Blue), **-R** (Red),
-RO (Rose), **-Y** (Yellow)

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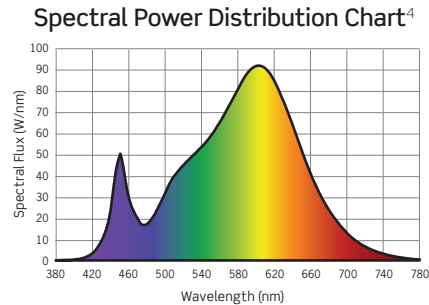
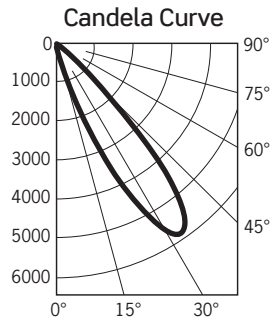
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R4A SERIES | 4-Inch Round Adjust. Downlight Photometrics

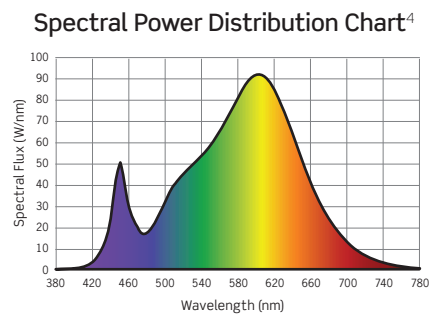
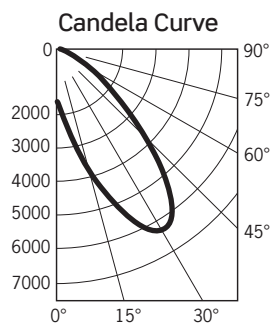
R4ANC630K12DS / C4304-CLR

Luminaire aimed 30° from Nadir
 Fixture Delivered Lumens: 877.5
 Total Watts@120V: 44.2
 Lumens Per Watt: 19.9
 Center Beam Candle Power: 11261
 Beam Distribution: 15.5°
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3109K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21101202
 LM-79 Test No. S21072701



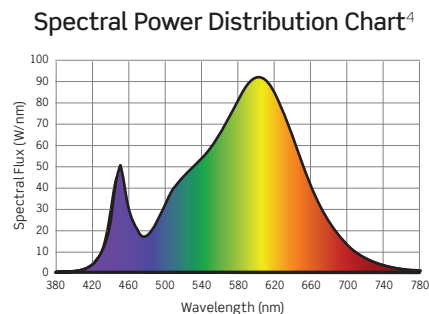
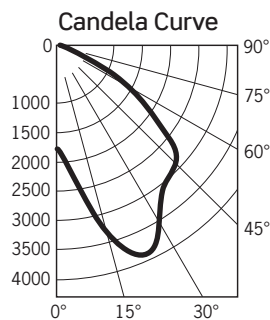
R4ANC630K12DM / C4304-CLR

Luminaire aimed 30° from Nadir
 Fixture Delivered Lumens: 3129.4
 Total Watts@120V: 44.3
 Lumens Per Watt: 70.6
 Center Beam Candle Power: 7085
 Beam Distribution: 36.2°
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3109K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21100701
 LM-79 Test No. S21072701



R4ANC630K12DF / C4304-CLR

Luminaire aimed 30° from Nadir
 Fixture Delivered Lumens: 2943.8
 Total Watts@120V: 44.4
 Lumens Per Watt: 66.3
 Center Beam Candle Power: 3603
 Beam Distribution: 51.3°
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3109K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21072003
 LM-79 Test No. S21072701



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	C4304-PL	C4305-WHT	C4302-CLR
2700K	0.94	0.70	0.26	0.36	0.50	0.68	0.83	0.94	0.68	1.24
3000K	N/A	0.75								
3500K	1.0	0.81								
4000K	1.0	0.87								

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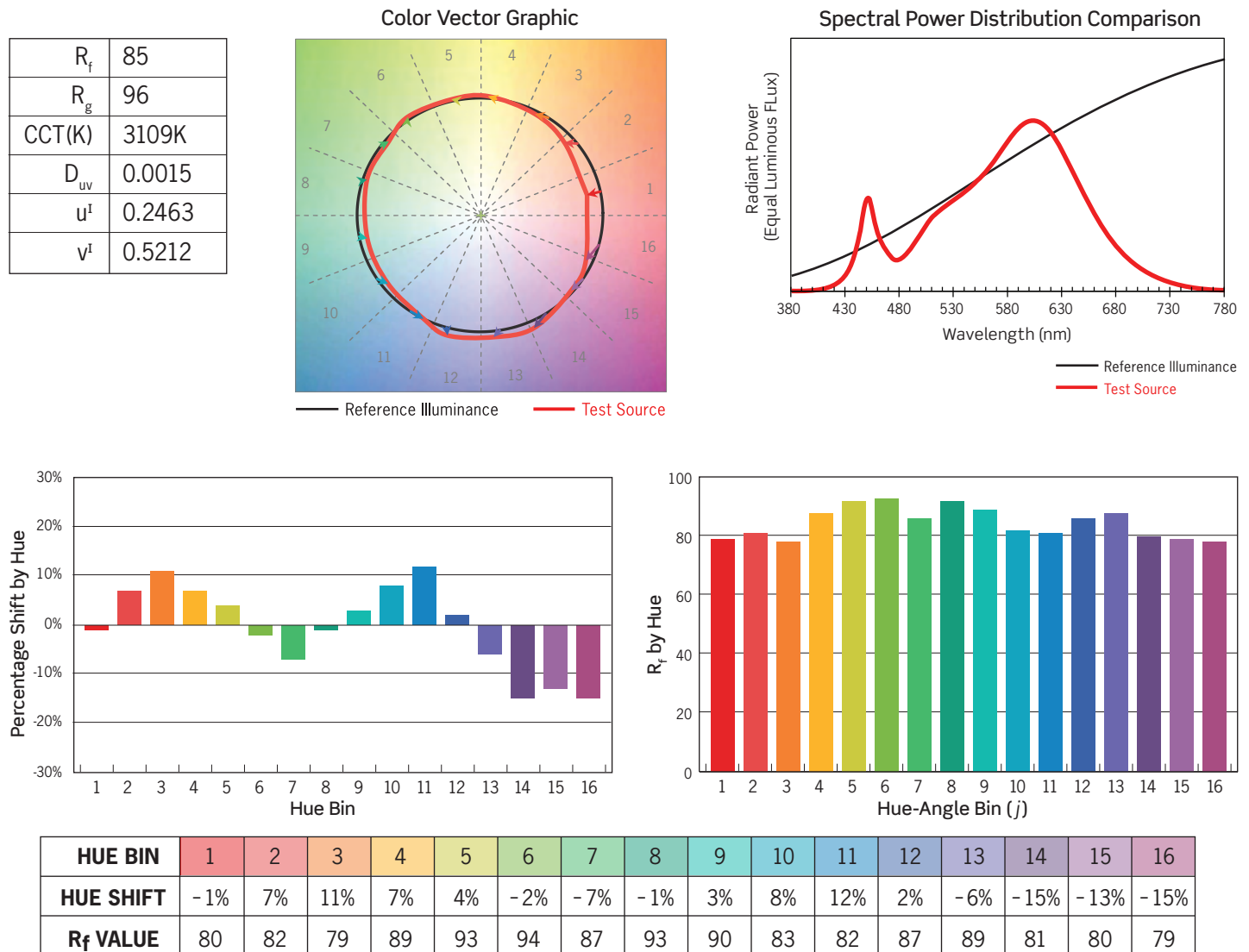
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R4A SERIES | 4-Inch Round Adjust. Downlight Photometrics

TM-30 DATA: R4ANC630K12DM / C4304-CLR

ANSI/IES TM-30-18 Color Rendition Report Test No. S21072701

Colors are for visual orientation purposes only



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R4A SERIES | 4-Inch Round Adjustable Downlights: Dimming Specifications

- Incandescent 120VAC 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 120VAC 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 low voltage dimming wires that are separate from the 120V or 277V AC power. The dimmer sends a variable output voltage to the fixture 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 (120V or 277V AC) input to the dimmer and then 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 low voltage control wires (color coded Purple and Pink/Grey).
- Lutron HiLume and EcoSystem drivers provide continuous dimming from 1%-100%. For a complete list of compatible dimmers and controls, please visit www.lutron.com
- Use DALI approved controls for dimming eLdoLED MVD7 (1%-100%) and MVD9 (0.1%-100%) options.

Manufacturer	Product	Model	TRIAC, ELV, 0-10V*	eLdoLED ECOdrive 0-10V	eLdoLED SOLOdrive 0-10V
			(12D, 27D, MVD)	(12D6, 27D6, MVD6)	(12D8, 27D8, MVD8)
			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 fixture 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.