LEVITON® | ConTech

R4A SERIES | 4-Inch Round
Insulated Ceiling (IC)/StopAire™ Adjustable Downlight

Side/Interior View

8-1/8"
1/2"
4-7/8" Dia.
7-1/16"

Top View

14-1/8"
17-1/16"
19-1/2"

Certification	
cCSAus Listed	Damp Location	IC Rated	Air-tight Certified	UL924 Certified	ASTM E283	CCEA Rated

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

	R4AIC1	R4AIC2	R4AIC3	R4AIC4
WATTAGE[1]	12W	15W	21W	29W
LUMEN OUTPUT[2]	800Lm	1100Lm	1600Lm	2100Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K			
CRI	83 (80min)/90+			
BEAM SPREAD	16° Spot / 36° Medium / 51° Flood			
DRIVER INPUT WATTAGE	12W	15W	21W	29W
INPUT CURRENT (A) 120V/277V	.08A/.04A	.12A/.06A	.17A/.08A	.23A/.11A
INPUT VOLTAGE Standard Driver (Phase/0-10V)	90–305VAC, 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	< 20%			
LISTINGS	cCSAus Certified using US (UL) and Canadian (CSA) standards; Suitable for Damp Locations			
	cCSAus Certified to UL924 Standard for Emergency Lighting when specified with the Emergency Battery Backup option (–ER)			
	Conforms to Washington State Energy Code (WSEC) for Low Air Infiltration; tested in accordance with ASTM E283 (2.0 CFM or less)			
	City of Chicago Environmental Air (CCEA) Rated; not for use in Insulated Ceilings (IC)			
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. For 37W/2600lm and 44W/3000lm Non-IC Series, use the R4ANC Series Specification Sheet
2. Approximate lumen output based on 3000K performance; see photometric test results for additional information

LEVITON | ConTech

R4A SERIES | 4-Inch Round
Insulated Ceiling (IC)/StopAire™ Adjustable Downlight

ORDERING INFORMATION

Example Order: R4AIC127KMVDM-ER

Housing/LED Series[1]	Color Temp/CRI		Dimming		Beam Dist.		Options	
R4AIC1 12W / 800lm	*83 (80min) CRI*	*90 CRI*	**MVD2**[2]	Forward/Reverse Phase, 0-10V Dimming	**S**	16° Spot	**ER**[3,4]	Factory Installed 7W/200mA Emergency Battery Backup; Remote Test Switch
R4AIC2 15W / 1100lm	**27K** 2700K	**27KC** 2700K	**MVD4**	Lutron Hi-lume 1% EcoSystem Driver with Soft-on, Fade-to-Black	**M**	36° Medium		
R4AIC3 21W / 1600lm	**30K** 3000K	**30KC** 3000K	**MVD6**	eldoLED ECOdrive 0-10V 1% Dimming	**F**	51° Flood		
R4AIC4 29W / 2100lm	**35K** 3500K	**35KC** 3500K	**MVD7**	eldoLED ECOdrive DALI 1% Dimming				
	40K 4000K	**40KC** 4000K	**MVD8**	eldoLED SOLOdrive 0-10V 0.1% Dimming				
			MVD9	eldoLED SOLOdrive DALI 0.1% Dimming				

1. For 37W/2600lm and 44W/3000lm Non-IC Series, use the R4ANC Series Specification Sheet
2. Forward/Reverse Phase Dimming for 120V only
3. Emergency Battery Backup Option cannot be used in Chicago Plenum applications
4. 600 Lumen nominal average for Emergency Battery Backup Option

ACCESSORY & REPLACEMENT OPTICS ORDERING INFORMATION

Mounting Accessories		Lenses and Louvers		Replacement Optics	
Standard Hanger Bars Supplied with Housing		**FA-57**	Black Accessory Holder Clip; Accepts Two (2) Media	**ADJOPT-S**	16° Spot
HB-30	T-Bar Hanger Set	**LA-36-83MM**	Black Honeycomb Louver Requires FA-57 Accessory Holder	**ADJOPT-M**	36° Medium
RL-KIT	Commercial Mounting Brackets	**LF20-** ** **86MM**	Tempered Glass Lenses; Requires FA-57 Accessory Holder	**ADJOPT-F**	51° Flood
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				

See page 3 for compatible Trim information and details

**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), **-G** (Green), **-LB** (Light Blue), **-R** (Red), **-RO** (Rose), **-Y** (Yellow)

PRODUCT SPECIFICATIONS

CONSTRUCTION
- Specification Grade 4–inch round 16 gauge galvanized steel New Construction Insulated Ceiling (IC) Air Tight Housing with Die-Cast Aluminum Heat Sink
- Rated for Insulated Ceiling (IC) and StopAire™ applications; can be used in direct contact with insulation materials
- Can be used in slope ceiling applications
- Housing is painted matte black inside and out; aperture can be adjusted 1/4–inch in each direction post installation to ease fixture alignment
- Quick-connect Module design enables easy installation and removal; can be accessed from above or below the ceiling
- Class 2 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: it is painted matte black, allows 45° of tilt, 360° rotational adjustment, and is fully lockable
- White Graduation Marks are painted every 15° on the Mechanism for consistent aiming
- 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 (4-in/4-out), wiring rated to 90ºC

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
- Engineering grade thermoplastic housing with a spring steel clips support the glass optic available in 16° Spot, 36° Medium and 51° Flood beam distributions
- Optics are interchangeable and can be field replaced
- Spec Grade Trims available in several different styles and finishes; **NOTE: R4A and R4 Series Trims are NOT compatible with each other**
- FA-57 Black Accessory Holder Clips can support two (2) media
- All R4A Downlights are available for dimming and non-dimming applications; for compatible Dimmers, refer to the Dimming Specification Sheet
- UL8750 and Class 2 Compliant; RoHS Compliant, US only

LEVITON® | ConTech

R4A SERIES | Specification Grade Trims
for 4-Inch Round Adjustable Downlights

TRIM OPTIONS
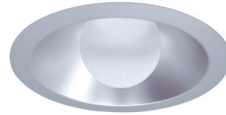
C4304 Series
Angle-Cut Reflector with Solite Lens

C4304-PL

- 4-3/8–Inch ID, 5-11/16–Inch OD
- Includes one (1) LF20-CL Clear Glass Lens
- Approved for Wet Locations

Trim	
C4304-CLR[1]	Clear Specular Reflector
C4304-PL[1]	Platinum Reflector
C4304-WHT	Matte White Painted Reflector

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

C4304BF Series
Angle-Cut Baffle with Solite Lens

C4304BF-WHT

- 4-3/8–Inch ID, 5-11/16–Inch OD
- Includes one (1) LF20-CL Clear Glass Lens
- Approved for Wet Locations

Trim	
C4304BF-BLK	Matte Black Painted Angle-Cut Baffle
C4304BF-WHT	Matte White Painted Angle-Cut Baffle

C4302 Series
Full Cone Reflector

C4302-CL

- 4-3/8–Inch ID, 5-11/16–Inch OD
- Accepts one (1) LA-45 Black Honeycomb Louver or one (1) LF20 Tempered Glass Lens
- Approved for Wet Locations when used with LF20 Lens

Trim	
C4302-CLR[1]	Clear Specular Full Cone Reflector
C4302-PL[1]	Platinum Full Cone Reflector
C4302-WHT	Matte White Painted Full Cone Reflector

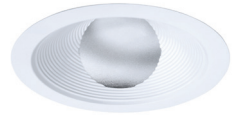1. Finish available with White Panted Flange; add "-WPF" to end of part number

C4301 Series
Full Cone Baffle

C4301-WHT
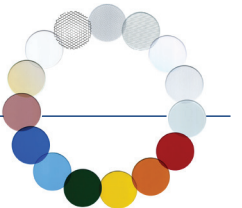
- 4-3/8–Inch ID, 5-11/16–Inch OD
- Accepts one (1) LA-45 Black Honeycomb Louver or one (1) LF20 Tempered Glass Lens
- Approved for Wet Locations when used with LF20 Lens

Trim	
C4301-BLK	Matte Black Painted Full Cone Baffle
C4301-WHT	Matte White Painted Full Cone Baffle

C4305 Series
Pinhole Trim

C4305-WHT

- 2-1/4–Inch ID, 5-5/8–Inch OD

Trim	
C4305-BLK	Matte Black Painted Pinhole
C4305-WHT	Matte White Painted Pinhole

Louvers, Lenses, and Filters

Louvers & Lenses	
LA-45	3-25/32–Inch Diameter Black Honeycomb Louver
LF20-*	3-3/4–Inch Diameter Tempered Glass Lenses and Filters; 1/8–Inch Thick, typ.

*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)

LEVITON® | ConTech

# R4A SERIES | 4-Inch Round Adjustable Downlight Photometrics

R4ANC630K12DS / C4304-CLR: 3000K, 80 CRI, SPOT BEAM, CLEAR REFLECTOR

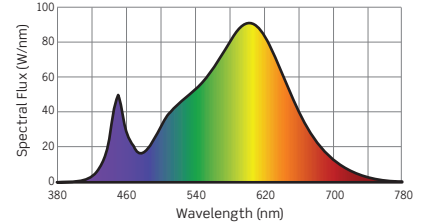LM-63 Test No. G21101202; LM-79 Test No. S21072701

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°
Spacing Criterion: 0.50
Color Rendering Index (CRI)[1]: 82.8
Color Temperature (CCT)[2]: 3109K
Designed for 50,000 Hour Lamp Life[3]

Candela Curve
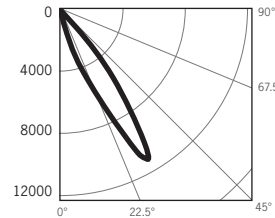
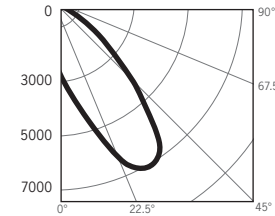Spectral Power Distribution Chart[4]

R4ANC630K12DM / C4304-CLR: 3000K, 80 CRI, MEDIUM BEAM, CLEAR REFLECTOR

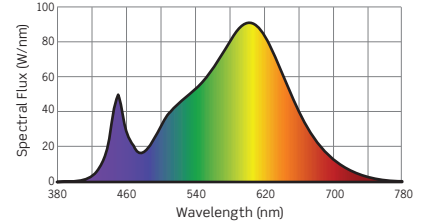LM-63 Test No. G21100701 LM-79 Test No. S21072701

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°
Spacing Criterion: 1.18
Color Rendering Index (CRI)[1]: 82.8
Color Temperature (CCT)[2]: 3109K
Designed for 50,000 Hour Lamp Life[3]

Candela Curve

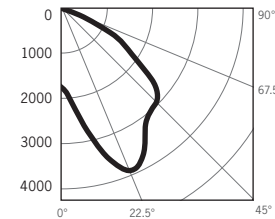Spectral Power Distribution Chart[4]

R4ANC630K12DF / C4304-CLR: 3000K, 80 CRI, FLOOD BEAM, CLEAR REFLECTOR

LM-63 Test No. G21072003; LM-79 Test No. S21072701

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°
Spacing Criterion: 1.25
Color Rendering Index (CRI)[1]: 82.8
Color Temperature (CCT)[2]: 3109K
Designed for 50,000 Hour Lamp Life[3]

Candela Curve

Spectral Power Distribution Chart[4]
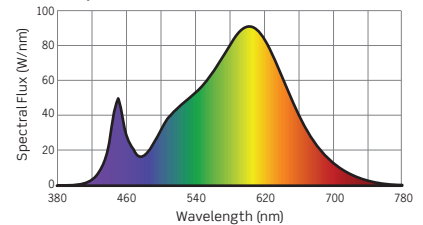
1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

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
0.26	0.36	0.50	0.68	0.83

TRIM MULTIPLIERS		
C4302-CLR	C4304-PL	C4305-WHT
1.24	0.94	0.68

LEVITON® | ConTech

R4A SERIES | 4-Inch Round Adjustable 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

R_f	85
R_g	96
CCT(K)	3109K
D_{uv}	0.0015
u^I	0.2463
v^I	0.5212

Color Vector Graphic

— Reference Illuminance   — Test Source

Spectral Power Distribution Comparison

— Reference Illuminance
— Test Source

HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	7%	11%	7%	4%	-2%	-7%	-1%	3%	8%	12%	2%	-6%	-15%	-13%	-15%
R_f VALUE	80	82	79	89	93	94	87	93	90	83	82	87	89	81	80	79

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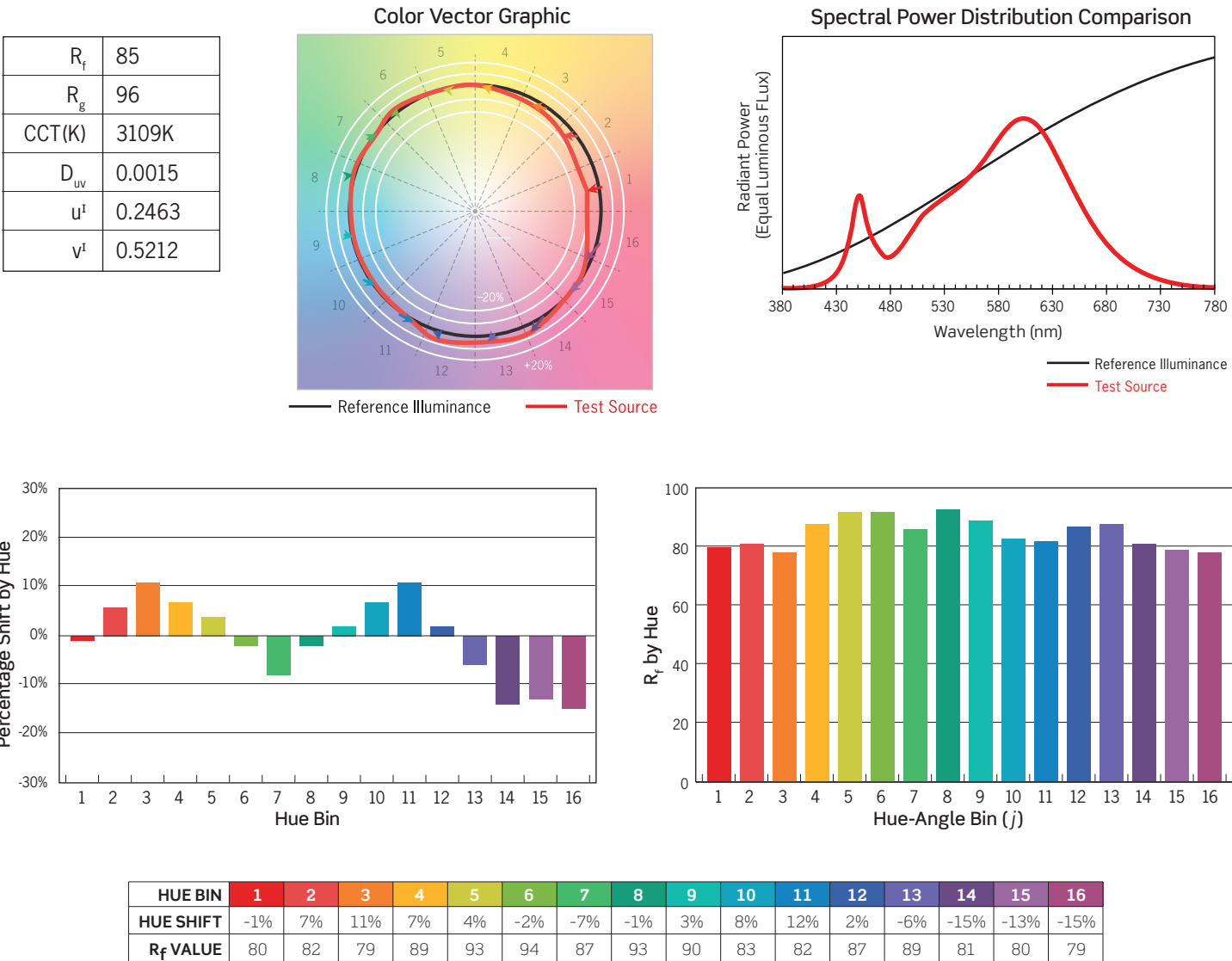
R4A SERIES | 4-Inch Round Adjustable Downlights: Dimming Specifications

Manufacturer	Product	Model	PHASE/0-10V DIMMING (D or MVD Option*)	eldoLED ECOdrive 0-10V (D6 or MVD6 Option)	eldoLED SOLOdrive 0-10V (D8 or MVD8 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
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.