

DATE

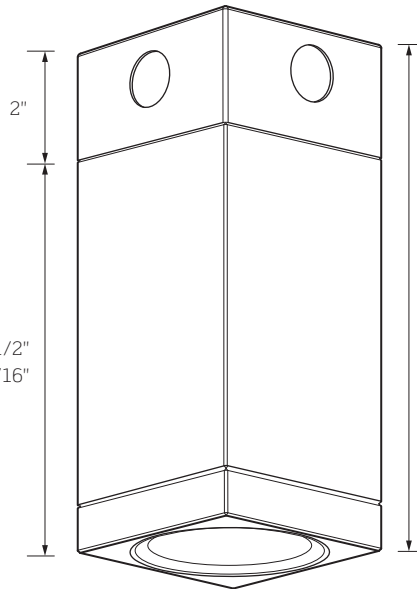
PROJECT

TYPE

SQL3 SERIES | 3-1/2-Inch Square Indoor Cylinders: Surface Mount with Conduit Feed Box

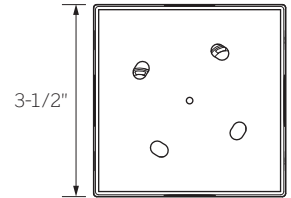


Short: 6-1/2"
Tall: 10-3/16"



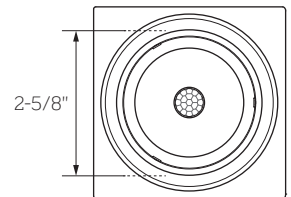
Short: 8-1/2"
Tall: 12-3/16"

Top View






3-1/2"

Bottom View



2-5/8"

	SQL3S1/SQL3T1	SQL3S2/SQL3T2	SQL3S3/SQL3T3
WATTAGE	10W	14W	20W
LUMEN OUTPUT ¹	1254Lm	1728Lm	2323Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K		
CRI	83 (80min) / 90+		
BEAM	14° Spot / 28° Medium / 39° Flood / 49° Wide Flood / Wall Wash		
LUMINAIRE HEIGHT	6-1/2-Inch (Short) / 10-3/16-Inch (Tall) / 2-Inch Deep Conduit Feed Mounting Box		
FINISHES	Matte Black / Satin Bronze / Matte White / Matte Silver / Custom Colors Available		
DRIVER INPUT WATTAGE	10W	14W	20W
DRIVER INPUT VOLTAGE	120V – 277V Dimming, 50/60Hz		
DIMMING TYPE	120V TRIAC/ELV 120V – 277V 0-10V Lutron HiLume EcoSystem; Remote Driver Enclosure required		
LISTINGS	   cCSAus Certified for use in the U.S. and Canada; Suitable for Damp/Dry locations Cylinders with Conduit Feed Boxes must be installed per specific Product Installation Instructions and all appropriate NEC Codes ENERGY STAR® Certified		
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

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SQL3 SERIES | 3-1/2-Inch Square Indoor Cylinders: Surface Mount with Conduit Feed Box

ORDERING INFORMATION

Example Order: - -

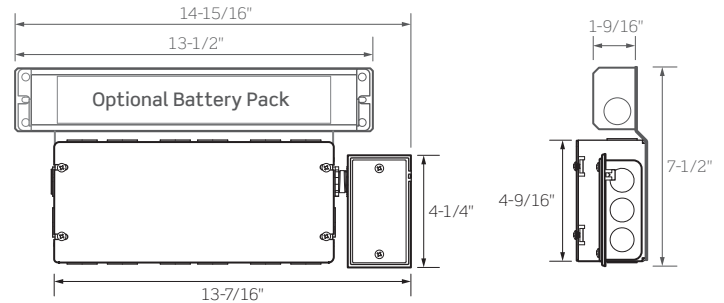
Cyl. Height	LED Series	Color Temp/CRI	Driver/Dimming	Mounting	Beam	
SQL3S - 6-1/2 in.	1 - 10W/1254lm	83 (80min) CRI	12D1 - 120V TRIAC/ELV	SC - Surface Mount with Conduit Box	S - 14° Spot	
SQL3T - 10-3/16 in.	2 - 14W/1728lm	27K - 2700K	MVD2 - 120V-277V 0-10V Dimming		M - 28° Medium	
	3 - 20W/2323lm	30K - 3000K	MVD4 ¹ - Lutron HiLume 1% EcoSystem Driver with Soft-On, Fade-to-Black		F - 39° Flood	
		35K - 3500K				WF - 49° Wide Flood
		40K - 4000K				WW ² - Wall Wash
		90+ CRI				
		27KC - 2700K				
		30KC - 3000K				
		35KC - 3500K				
		40KC - 4000K				

Finish

- B** - Matte Black
- BZ** - Satin Bronze
- P** - Matte White
- S** - Matte Silver
- CC**³ - Custom Color

Battery and Remote Enclosure⁴

- None, Leave Blank
- RDB** - Remote Driver & Battery Pack
- RD** - Remote Driver Enclosure



RDB: Remote Driver & Battery Pack
Battery Flexible Conduit Whips Not Pictured
RD: Remote Driver Enclosure

- Lutron HiLume Drivers must use Remote Driver Enclosure (RD Option)
- Wall Wash Optic (WW) is not field interchangeable with Spot, Medium, Flood and Wide Flood Optics
- Custom Color finishes available; consult factory for pricing, minimum order quantities and lead time
- RD and RDB Options must be installed in Dry/Damp Locations

ACCESSORY ORDERING INFORMATION

Replacement Optics

- SQL3-OPTIC-S** - 14° Spot Beam
- SQL3-OPTIC-M** - 28° Medium Beam
- SQL3-OPTIC-F** - 39° Flood Beam
- SQL3-OPTIC-WF** - 49° Wide Flood Beam

Spot (S), Medium (M), Flood (F), and Wide Flood (WF) Optics are not interchangeable with Wall Wash (WW) options

Accessories

- FA-47** - Accessory Holder
- FA-16 60MM** - 2-3/8-Inch Diameter Black Honeycomb Louver; Requires FA-47 Accessory Holder
- LF16-* 60MM** - 2-3/8-Inch Diameter Tempered Glass Lenses and Filters: 1/8-Inch Thick, typical; requires FA-47 Accessory Holder

***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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SQL3 SERIES | 3-1/2-Inch Square Indoor Cylinders: Surface Mount with Conduit Feed Box

PRODUCT DETAILS

Construction

- Specification Grade 3-1/2-inch square Aluminum Housing for indoor applications
- Cast Aluminum Driver Canopy with a four (4) outlet, 3-1/2-inch diameter Junction Box with hardware for 3/4-inch EMT Conduit and Hubs
- Available in 6-1/2- and 10-3/16-inch heights
- Suitable for Dry/Damp (Indoor) location types
- Hang support for hands-free wiring

Performance Summary

- Available in 14° Spot, 28° Medium, 39° Flood and 49° Wide Flood Beam Distributions, as well as a Wall Wash option
- Wall Wash Optic may be rotated 360° to aim distribution pattern
- Optics have been optically engineered to provide a smooth uniform beam, maximizing output and minimizing glare
- Optics can be easily changed in the field for optimal flexibility; Wall Wash Optic (WW) is not field interchangeable with Spot, Medium, Flood or Wide Flood Optics
- 2700K, 3000K, 3500K and 4000K Color Temperatures; CRI 80 of min., 83 typical; high CRI 90+ available
- Excellent fixture-to-fixture color consistency within a 3-step MacAdam Ellipse tolerance
- Battery Backup option provides 90 minutes of power
- UL8750 and Class 2 compliant: RoHS compliant, U.S. only
- Output over voltage, over current and short circuit protected
- SQL3 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, refer to Dimming Specification sheet

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SQL3 SERIES | 3-1/2-Inch Square Indoor/Outdoor Cylinders

PHOTOMETRICS

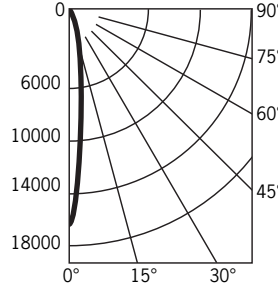
SQL3S330K12D1CS: Spot Optic

Fixture Delivered Lumens: 2246.98
 Total Watts@120V: 19.691
 Lumens Per Watt: 114.06
 Center Beam Candle Power: 16355
 Beam Distribution: 13.64°
 Spacing Criterion: 0.2996
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3059K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G24013103
 LM-79 Test No. S24020102

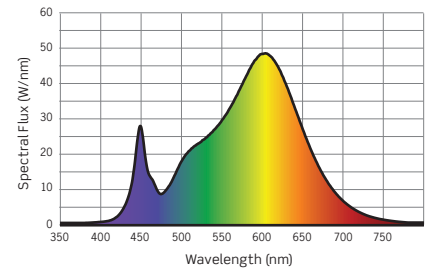
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	1022.2	0.96
6'	454.3	1.44
8'	255.5	1.91
10'	163.5	2.39
12'	113.6	2.87
14'	83.4	3.35

Candela Curve



Spectral Power Distribution Chart⁴



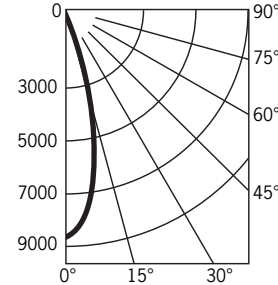
SQL3S330K12D1CM

Fixture Delivered Lumens: 2323.28
 Total Watts@120V: 19.742
 Lumens Per Watt: 117.933
 Center Beam Candle Power: 8621
 Beam Distribution: 28.47°
 Spacing Criterion: 0.4743
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3059K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G24013102
 LM-79 Test No. S24020102

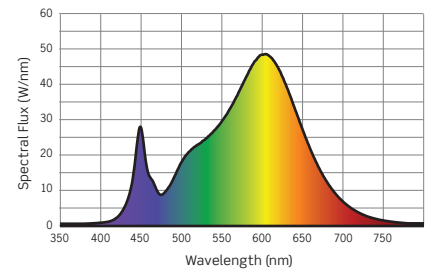
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	538.8	2.03
6'	239.5	3.04
8'	134.7	4.06
10'	86.2	5.07
12'	59.9	6.09
14'	44.0	7.10

Candela Curve



Spectral Power Distribution Chart⁴



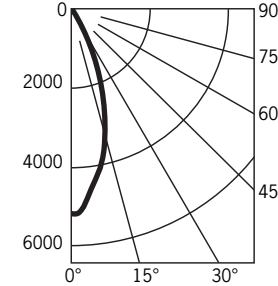
SQL3S330K12D1CF

Fixture Delivered Lumens: 2284.87
 Total Watts@120V: 19.691
 Lumens Per Watt: 115.983
 Center Beam Candle Power: 5158
 Beam Distribution: 38.81°
 Spacing Criterion: 0.6445
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3059K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G24013104
 LM-79 Test No. S24020102

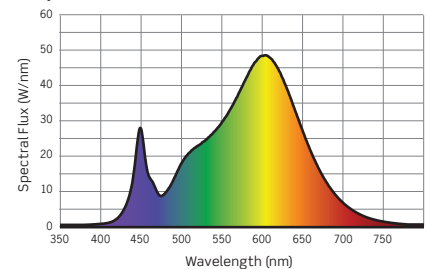
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	322.4	2.82
6'	143.3	4.23
8'	80.6	5.64
10'	51.6	7.05
12'	35.8	8.43
14'	26.3	9.86

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 CCT. To estimate lumen output of the various CCT/CRI options, multiply 3000K (80 CRI min) results by the following:

CCT	CCT MULTIPLIERS		OUTPUT MULTIPLIERS		
	STD CRI	HIGH CRI	10W	14W	WET LOCATION OPT.
2700K	0.949	0.842	0.54	0.744	0.972
3000K	N/A	0.872	0.54	0.744	0.972
3500K	1.02	0.895	0.54	0.744	0.972
4000K	1.04	0.916	0.54	0.744	0.972

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SQL3 SERIES | 3-1/2-Inch Square Indoor/Outdoor Cylinders

PHOTOMETRICS

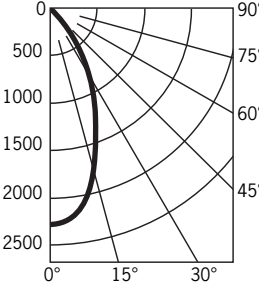
SQL3S330K12D1CWF: Wide Flood

Fixture Delivered Lumens: 1773.48
 Total Watts@120V: 19.70
 Lumens Per Watt: 90.0242
 Center Beam Candle Power: 2274
 Beam Distribution: 49.33°
 Spacing Criterion: 0.7939
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3059K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G24013105
 LM-79 Test No. S24020102

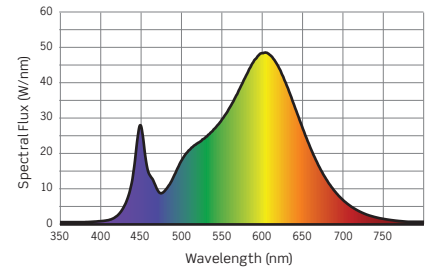
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	142.1	3.67
6 FT	63.2	5.51
8 FT	35.5	7.35
10 FT	22.7	9.18
12 FT	15.8	11.02
14 FT	11.6	12.86

Candela Curve



Spectral Power Distribution Chart⁴



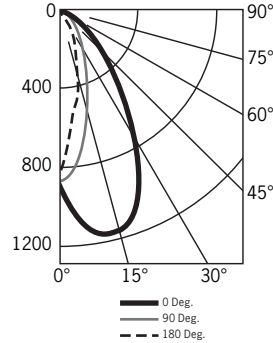
SQL3S330K12D1CWW: Wall Wash

Fixture Delivered Lumens: 899.574
 Total Watts@120V: 19.675
 Lumens Per Watt: 45.6637
 Center Beam Candle Power: 879
 Beam Distribution: 54.5°
 Spacing Criterion: 0.8331
 Color Rendering Index (CRI)¹: 83
 Color Temperature (CCT)²: 3059K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G24020101
 LM-79 Test No. S24020102

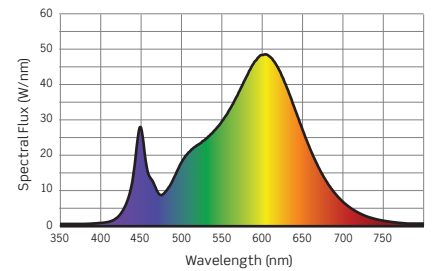
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	55.0	4.43
6 FT	24.4	6.65
8 FT	13.7	8.86
10 FT	8.8	11.08
12 FT	6.1	13.29
14 FT	4.5	15.51

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 CCT. To estimate lumen output of the various CCT/CRI options, multiply 3000K (80 CRI min) results by the following:

CCT	CCT MULTIPLIERS		OUTPUT MULTIPLIERS		
	STD CRI	HIGH CRI	10W	14W	WET LOCATION OPT.
2700K	0.935	0.703	0.59	0.78	0.94
3000K	N/A	0.754	0.59	0.78	0.94
3500K	1.0	0.812	0.59	0.78	0.94
4000K	1.0	0.870	0.59	0.78	0.94

BUG RATINGS

Not valid for Up/Down (U/D) or Wall Mount (W) when oriented as an Uplight

	REFLECTOR				
	SPOT	MEDIUM	FLOOD	WIDE FLOOD	WALL WASH ¹
10W	B1 U0 G0	B1 U0 G0	B1 U0 G0	B1 U0 G0	B0 U0 G0
14W	B1 U0 G0	B1 U0 G0	B1 U0 G0	B1 U0 G0	B1 U0 G0
20W	B2 U0 G0	B2 U0 G0	B2 U0 G0	B2 U0 G0	B0 U0 G0

1. Wall Wash Rating based on Reflector used as Forward Throw

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SQL3 SERIES | 3-1/2-Inch Square Indoor/Outdoor Cylinders

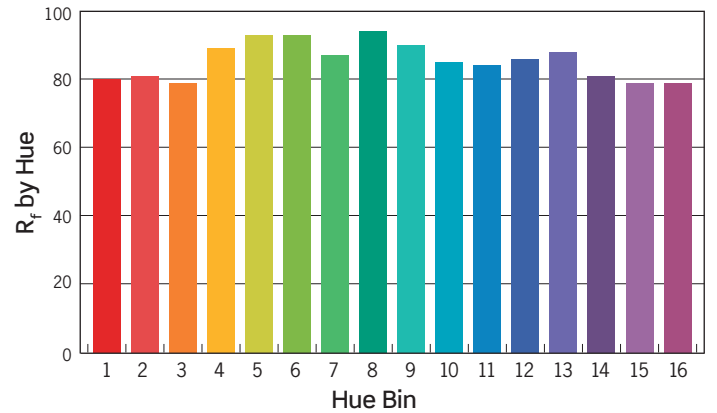
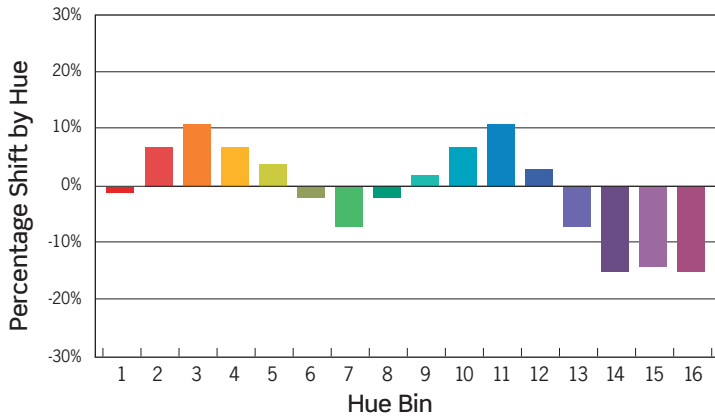
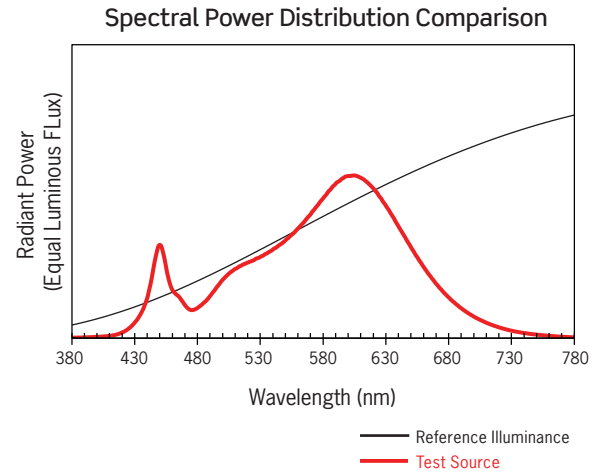
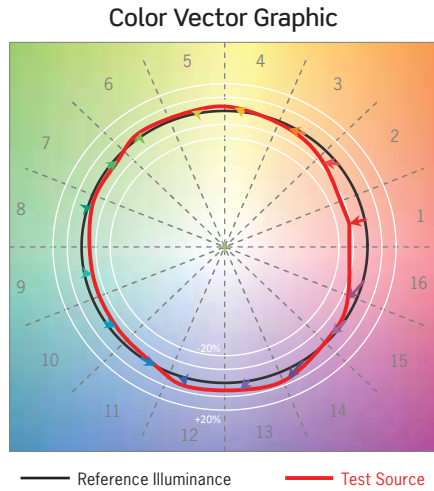
PHOTOMETRICS

TM-30 DATA: SQL3S330K12D1CM

ANSI/IES TM-30-18 Color Rendition Report Test No. S24020102

Colors are for visual orientation purposes only

R_f	86
R_g	96
CCT(K)	3059 K
D_{uv}	0.0000
u^I	0.2486
v^I	0.5202



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%	-2%	2%	7%	11%	3%	-7%	-15%	-14%	-15%
R_f VALUE	80	81	79	89	93	93	87	94	90	85	84	86	88	81	79	79

Colors are for visual orientation purposes only

SQL3 SERIES | 3-1/2 Inch Square Indoor/Outdoor Cylinders: 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 input (120V or 277V AC) 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 violet and pink/gray).
- Lutron EcoSystem Drivers provide continuous dimming from 1%-100%. For a complete list of compatible dimmers and controls, please visit www.lutron.com

			SQL3* Dimming Option 12D1 or MVD2
Manufacturer	Product	Model	Light Output
Leviton	IllumaTech	IPI06-1LZ	1%-100%
Leviton	SureSlide	6631-2	1%-100%
Leviton	Vizia	VPE06	9%-100%
Leviton	Trimatron	6683-IW	4%-100%
Leviton	Decora	6161	15%-100%
Leviton	SureSlide	6633-P	0%-100%
Leviton	IllumaTech	IPE04	6%-100%
Leviton	IllumaTech	IP710-DLX	NA
Lutron	Ariadni	TGCL-153P	4%-100%
Lutron	Ariadni	TG-600P	11%-100%
Lutron	Diva	DVCL-153P	0%-100%
Lutron	Diva	DV600P	0%-100%
Lutron	Diva	DVELV303P	6%-100%
Lutron	Diva	DVTV	NA
Lutron	Faetra	FAELV500	12%-100%
Lutron	Lumea	LG600P	5%-100%
Lutron	Maestro	MAELV600	11%-100%
Lutron	Nova	NFTV	NA
Lutron	Nova T	NTFTV	NA
Lutron	Skylark	S-603PG	4%-96%
Lutron	Skylark	S600P	1%-100%
Lutron	Skylark	SELV300P	7%-100%
Lutron	Skylark	CT103P	9%-100%
Pass & Seymour	Titan	CD4FB-W	NA
Watt Stopper	Miro Decorator	DCLV1	NA
Synergy		ISD BC	NA
Cooper	Devine	DLC03P	1%-100%
Cooper	Skye	SLC03P	0%-100%
Cooper	Decorator	DAL06P	0%-100%

*277V Triac Dimming is not available

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.