

DATE

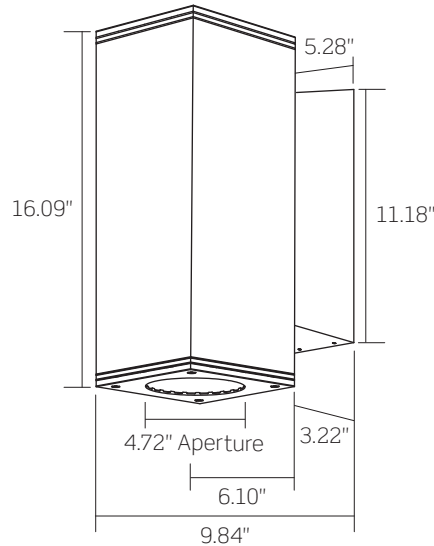
PROJECT

TYPE



# SQL6 SERIES | 6-Inch Integrated LED Indoor/Outdoor Square Cylinders: Up/Down Wall Mount



**Nominal Weight:** 16 Lbs



Up/Down Wall Mount Cylinders consist of dual light engines: one (1) oriented down and one (1) oriented up

	SQL61	SQL62	SQL63	SQL64	SQL65	SQL66
FIXTURE WATTAGE	20W	28W	40W	56W	72W	86W
INDIVIDUAL ENGINE WATTAGE	10W	14W	20W	28W	36W	43W
FIXTURE LUMEN OUTPUT <sup>1</sup>	2440Lm	3400Lm	4620Lm	6366Lm	7758Lm	8716Lm
INDIVIDUAL ENGINE LUMEN OUTPUT <sup>1</sup>	1220Lm	1700Lm	2310Lm	3183Lm	3879Lm	4358Lm
BEAM SPREAD	36°, 53°, 63°, 80°, Wall Wash and Pencil Beam					
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K					
CRI	83 (80min) / 90+					
INDIVIDUAL ENGINE INPUT WATTAGE	10W	14W	20W	28W	36W	43W
INPUT CURRENT (A) 120V/277V	.08/.04	.12/.06	.17/.08	.23/.11	.31/.14	.36/.17
INPUT VOLTAGE / DIMMING RANGE	120VAC/277VAC, 50/60Hz					
Std Driver (TRIAC, ELV, 0-10V) / 10-100%	120VAC/277VAC, 50/60Hz				N/A	N/A
Lutron HiLume® Driver / 1-100%	120VAC, 50/60Hz				N/A	N/A
Lutron Eco-System® Driver / 1-100%	120VAC/277VAC, 50/60Hz				N/A	N/A
elDoLED ECOdrive / SOLOdrive / 0.1-100%	120VAC/277VAC, 50/60Hz					
DRIVER POWER FACTOR	> 0.90					
TOTAL HARMONIC DISTORTION	< 20%					
  LISTINGS	cCSAus Certified for use in the U.S. and Canada; Suitable for Damp/Dry or Wet Locations All models must be installed per specific product installation instructions and all appropriate National Electrical Codes					
WARRANTY	Five (5) year replacement after date of purchase					
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance					

<sup>1</sup>. Lumen values are approximate, see photometric test results

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# SQL6 SERIES | 6-Inch Integrated LED Indoor/Outdoor Square Cylinders: Up/Down Wall Mount

## ORDERING INFORMATION

**Example Order:**  -  -

Standard Luminaire construction uses identical Lumen Packages, Color Temperatures or Beam Spreads in both directions; Consult factory if different Lumen Packages, Color Temperatures or Beam Spreads are required in each direction of the Luminaire

Luminaire	Color Temp/CRI	Driver/Dimming	Mounting	Mntg Location	Reflector
<b>SQL61</b> - 10W 1220lm	83 (80min) CRI <b>27K</b> - 2700K	<b>MVD</b> - 120V-277V TRIAC, ELV, 0-10V Dimming	<b>UD</b> - Up/Down Wall Mount	<b>X</b> - Exterior / Wet Locations	<b>NCLR</b> - 36° Narrow, Clear Alzak
<b>SQL62</b> - 14W 1700lm	<b>30K</b> - 3000K <b>35K</b> - 3500K	<b>34D2</b> - 347V, 0-10V Dimming			<b>MCLR</b> - 54° Medium, Clear Alzak
<b>SQL63</b> - 20W 2310lm	<b>40K</b> - 4000K 90+ CRI	<b>12D3</b> <sup>1</sup> - Lutron Hi-lume 1% 2-Wire LED Driver (120V Forward Phase Only)			<b>WCLR</b> - 80° Wide, Clear Alzak
<b>SQL64</b> - 28W 31380lm	<b>27KC</b> - 2700K <b>30KC</b> - 3000K	<b>MVD4</b> <sup>1</sup> - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black			<b>PL</b> - 63° Platinum
<b>SQL65</b> - 36W 3879lm	<b>35KC</b> - 3500K <b>40KC</b> - 4000K	<b>MVD6</b> - eldoLED ECOdrive, 0-10V, 1% Dimming			<b>WW</b> <sup>2</sup> - Wall Wash
<b>SQL66</b> - 43W 4358lm		<b>MVD7</b> - eldoLED ECOdrive, DALI, 1% Dimming <b>MVD8</b> - eldoLED SOLOdrive, 0-10V, 0.1% Dimming <b>MVD9</b> - eldoLED SOLOdrive, DALI, 0.1% Dimming <b>MDMX</b> - eldoLED POWERdrive, DMX <1% Dimming			<b>PB</b> <sup>2,3</sup> - Pencil Beam

### Finish

- B** - Matte Black
- BZ** - Satin Bronze
- P** - Matte White
- S** - Matte Silver
- CC**<sup>4</sup> - Custom Color

### Battery and Remote Enclosure<sup>5,6,7</sup>

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

1. Lutron Dimming options are available for Series 1 through 4 only (10W through 28W); not available for use with Series 5 or 6 (36W or 43W)
2. Wall Wash (WW) and Pencil Beam (PB) Optics limited to 28W and lower luminaires
3. Pencil Beam (PB) Optic limited to Exterior Mount (X Mounting option) locations
4. Custom finish colors available; consult factory for pricing, minimum order quantities and lead time
5. RD and RDB Options must be installed in Dry/Damp Locations
6. 90 Minute Battery Backup option powers the down light engine; consult factory for alternate options
7. RDB and RD Options cannot be used with Lutron Hi-lume Dimming (12D3/MVD4 Options) in Series 5 or 6 (36W or 43W) luminaires

## DRIVER AVAILABILITY MATRIX

Highest wattage option for each Driver/Dimming Type that will fit inside the luminaire shown below;

Driver sizes that do not fit inside the luminaire may be ordered with a Remote Driver Housing (RD), unless otherwise noted with additional restrictions.

### Driver:

MVD	12D3 <sup>7</sup>	MVD4 <sup>7</sup>	MVD6	MVD7	MVD8	MVD9	MDMX	34D2
120V-277V TRIAC, ELV	120V Lutron Hi-lume 1% 2-Wire	Lutron Hi-lume 1% EcoSystem	eldoLED ECOdrive 0-10V	eldoLED ECOdrive DALI	eldoLED SOLOdrive 0-10V	eldoLED SOLOdrive DALI	eldoLED POWERdrive DMX	347V 0-10V
Any Wattage	Up to 28W (SQL64)	Up to 28W (SQL64)	N/A	N/A	N/A	N/A	N/A	Any Wattage

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## SQL6 SERIES | 6-Inch Integrated LED Indoor/Outdoor Square Cylinders: Up/Down Wall Mount

### PRODUCT DETAILS

#### Construction

- Specification grade 6-inch square aluminum housing for indoor and outdoor applications
- Suitable for Dry/Damp (indoor) or Wet (outdoor) location types
- Wet location type cylinders feature a sealed clear glass lens in a gasketed die-cast trim ring to ensure unit is watertight
- Support Tether for hands-free wiring
- Standard Up/Down luminaire construction uses identical LED Light Engines, Color Temperatures and Beams in both the Up and Down direction; consult factory if different Light Engines, Color Temperatures or Beam Spreads are required in each directions of an Up/Down luminaire
- Battery Backup option powers only the down light engine; consult factory for alternate options

#### Performance Summary

- Clear Reflector available in 36° Narrow, 54° Medium and 80° Wide beam distributions; Platinum Reflector is available in a 63° Medium beam distribution
- Wall Wash and Pencil Beam Optic accessories also available
- 2700K, 3000K, 3500K and 4000K Color Temperatures; 80 min. CRI, 83 typical; high CRI of 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
- SQL6 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, refer to Dimming Specification sheet

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# SQL6 SERIES | 6-In Square Cylinder Photometrics

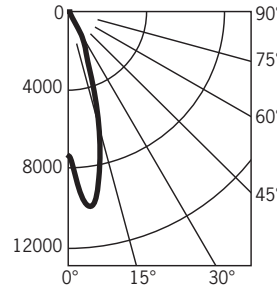
## SQL6630KMVDCNCLR

Fixture Delivered Lumens: 4306.3  
 Total Watts@120V: 42.2  
 Lumens Per Watt: 102.0  
 Center Beam Candle Power: 7509  
 Beam Distribution: 35.0°  
 Spacing Criterion: 0.62  
 Color Rendering Index (CRI)<sup>1</sup>: 83.6  
 Color Temperature (CCT)<sup>2</sup>: 3086K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21091502  
 LM-79 Test No. S21081101

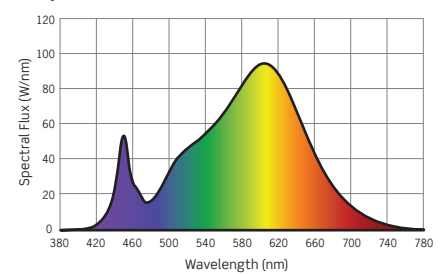
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	469.3	2.5
6 FT	208.6	3.8
8 FT	117.3	5.0
10 FT	75.1	6.3
12 FT	52.1	7.6
14 FT	38.3	8.8

### Candela Curve



### Spectral Power Distribution Chart<sup>4</sup>



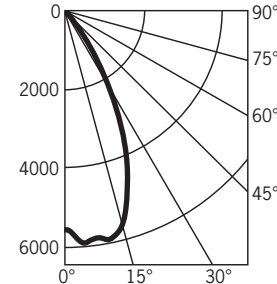
## SQL6630KMVDCMCLR

Fixture Delivered Lumens: 4357.9  
 Total Watts@120V: 42.2  
 Lumens Per Watt: 103.3  
 Center Beam Candle Power: 5567  
 Beam Distribution: 53.7°  
 Spacing Criterion: 0.820  
 Color Rendering Index (CRI)<sup>1</sup>: 83.6  
 Color Temperature (CCT)<sup>2</sup>: 3086K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21091501  
 LM-79 Test No. S21081101

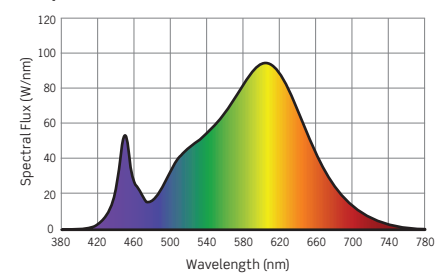
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	347.9	4.1
6 FT	154.6	6.1
8 FT	87.0	8.1
10 FT	55.7	10.1
12 FT	38.7	12.2
14 FT	28.4	14.2

### Candela Curve



### Spectral Power Distribution Chart<sup>4</sup>



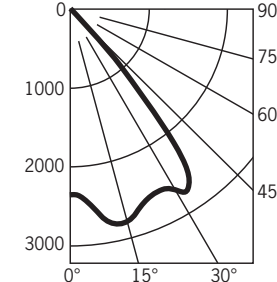
## SQL6330KMVDCWCLR

Fixture Delivered Lumens: 4174.3  
 Total Watts@120V: 42.2  
 Lumens Per Watt: 98.9  
 Center Beam Candle Power: 2383  
 Beam Distribution: 79.8°  
 Spacing Criterion: 1.20  
 Color Rendering Index (CRI)<sup>1</sup>: 83.6  
 Color Temperature (CCT)<sup>2</sup>: 3086K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21091503  
 LM-79 Test No. S21081101

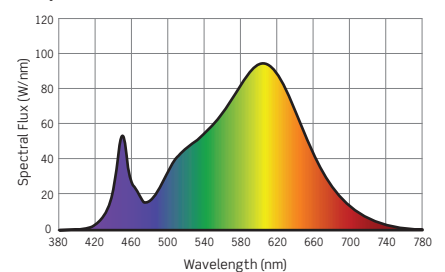
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	148.9	6.7
6 FT	66.2	10.0
8 FT	37.2	13.4
10 FT	23.8	16.7
12 FT	16.5	20.1
14 FT	12.2	23.4

### Candela Curve



### Spectral Power Distribution Chart<sup>4</sup>



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				
CCT	STD CRI	HIGH CRI	10W/SERIES 1	14W/SERIES 2	20W/SERIES 3	28W/SERIES 4	36W/SERIES 5
2700K	0.94	0.70	0.28	0.39	0.53	0.72	0.89
3000K	N/A	0.75					
3500K	1.0	0.81					
4000K	1.0	0.87					

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# SQL6 SERIES | 6-In Square Cylinder Photometrics

## SQL6630KMVDCPL

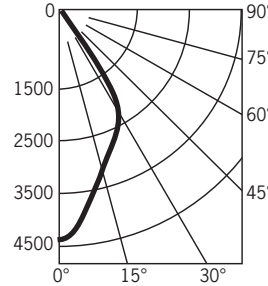
Fixture Delivered Lumens: 3823.3  
 Total Watts@120V: 42.2  
 Lumens Per Watt: 90.6  
 Center Beam Candle Power: 4440  
 Beam Distribution: 63.1°  
 Spacing Criterion: 0.93  
 Color Rendering Index (CRI)<sup>1</sup>: 83.6  
 Color Temperature (CCT)<sup>2</sup>: 3086K

Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21091504  
 LM-79 Test No. S21081101

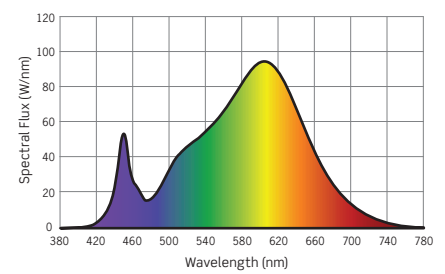
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	277.5	4.9
6 FT	123.3	7.4
8 FT	69.4	9.8
10 FT	44.4	12.3
12 FT	30.8	14.7
14 FT	22.7	17.2

### Candela Curve



### Spectral Power Distribution Chart<sup>4</sup>



## SQL6630KMVDCWW

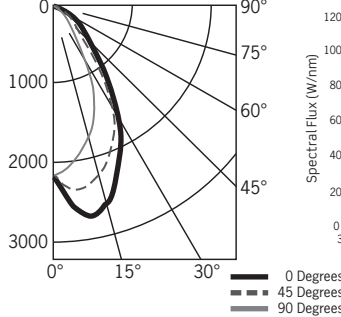
Fixture Delivered Lumens: 2168.7  
 Total Watts@120V: 42.1  
 Lumens Per Watt: 51.5  
 Center Beam Candle Power: 2146  
 Beam Distribution: Wall Wash  
 Spacing Criterion: 0.81  
 Color Rendering Index (CRI)<sup>1</sup>: 83.6  
 Color Temperature (CCT)<sup>2</sup>: 3086K

Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21091601  
 LM-79 Test No. S21081101

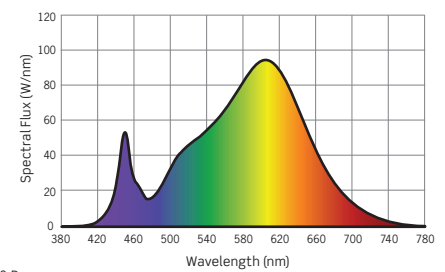
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	134.2	3.7
6 FT	59.6	5.6
8 FT	33.5	7.4
10 FT	21.5	9.3
12 FT	14.9	11.1
14 FT	11.0	13.0

### Candela Curve



### Spectral Power Distribution Chart<sup>4</sup>



## SQL6630KMVDCXPB

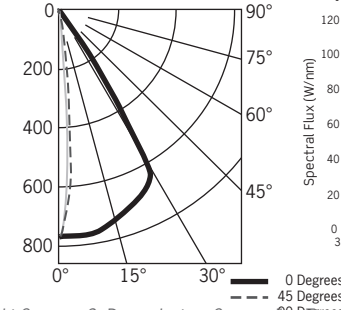
Fixture Delivered Lumens: 117.3  
 Total Watts@120V: 42.1  
 Lumens Per Watt: 2.8  
 Center Beam Candle Power: 766  
 Beam Distribution: 8.3°  
 Spacing Criterion: 0.99  
 Color Rendering Index (CRI)<sup>1</sup>: 83.6  
 Color Temperature (CCT)<sup>2</sup>: 3086K

Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G22021602  
 LM-79 Test No. S21081101

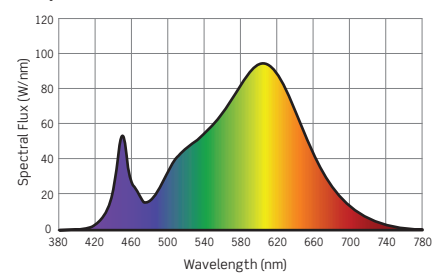
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	47.9	4.3
6 FT	21.3	6.4
8 FT	12.0	8.5
10 FT	7.7	10.6
12 FT	5.3	12.8
14 FT	3.9	14.9

### Candela Curve



### Spectral Power Distribution Chart<sup>4</sup>



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				
CCT	STD CRI	HIGH CRI	10W/SERIES 1	14W/SERIES 2	20W/SERIES 3	28W/SERIES 4	36W/SERIES 5
2700K	0.94	0.70	0.28	0.39	0.53	0.72	0.89
3000K	N/A	0.75					
3500K	1.0	0.81					
4000K	1.0	0.87					

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# SQL6 SERIES | 6-In Square Cylinder Photometrics

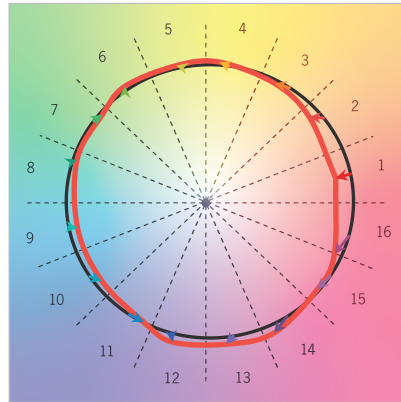
## TM-30 DATA: SQL6630KMVDCMLR

ANSI/IES TM-30-18 Color Rendition Report Test No. S21081101

Colors are for visual orientation purposes only

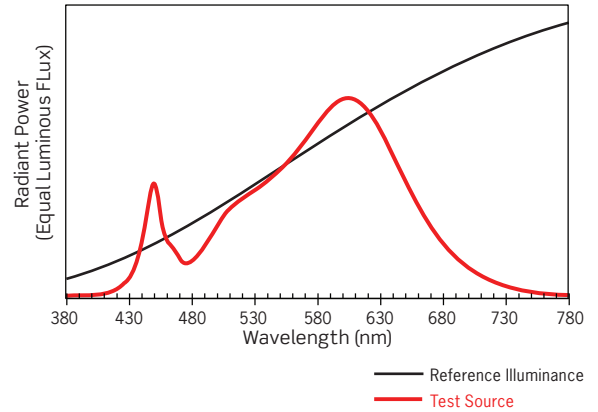
$R_f$	86
$R_g$	97
CCT(K)	3086K
$D_{uv}$	0.0017
$u^l$	0.2470
$v^l$	0.5220

Color Vector Graphic

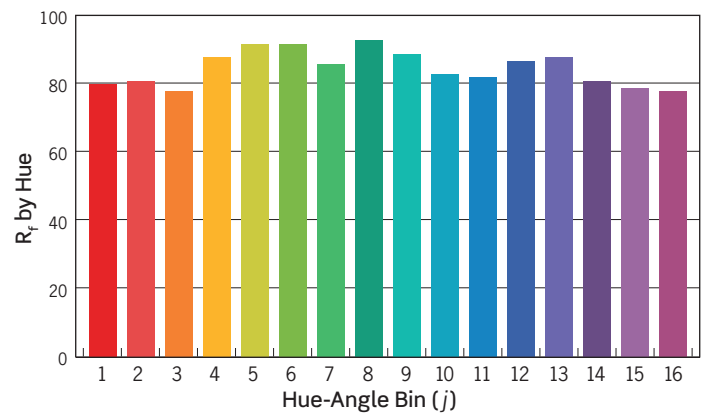
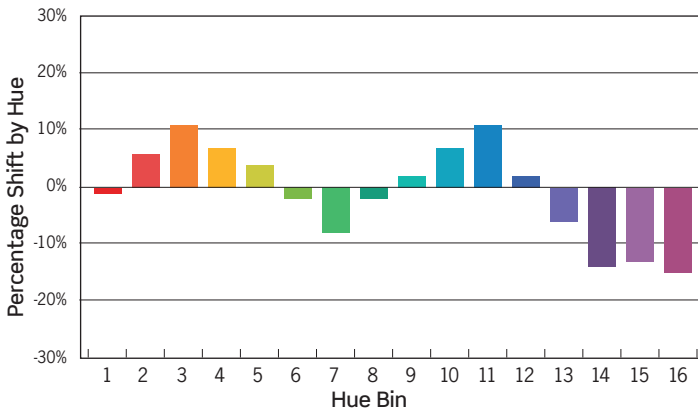


— Reference Illuminance — Test Source

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%	6%	10%	7%	4%	-2%	-7%	-2%	2%	7%	11%	2%	-6%	-14%	-13%	-15%
R <sub>f</sub> VALUE	81	83	80	89	93	93	88	94	91	84	83	88	89	82	80	80

# SQL6 SERIES | 6-Inch Integrated LED Indoor/Outdoor Square 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 (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](http://www.lutron.com)
- Use DALI approved controls for dimming eLdoLED MVD7 (1%-100%) and MVD9 (0.1%-100%) options.

Manufacturer	Product	Model	MVD Dimming Option	MVD6 Dimming Option	MVD8 Dimming Option
			Light Output/Dim Range	Light Output/Dim Range	Light Output/Dim Range
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 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.