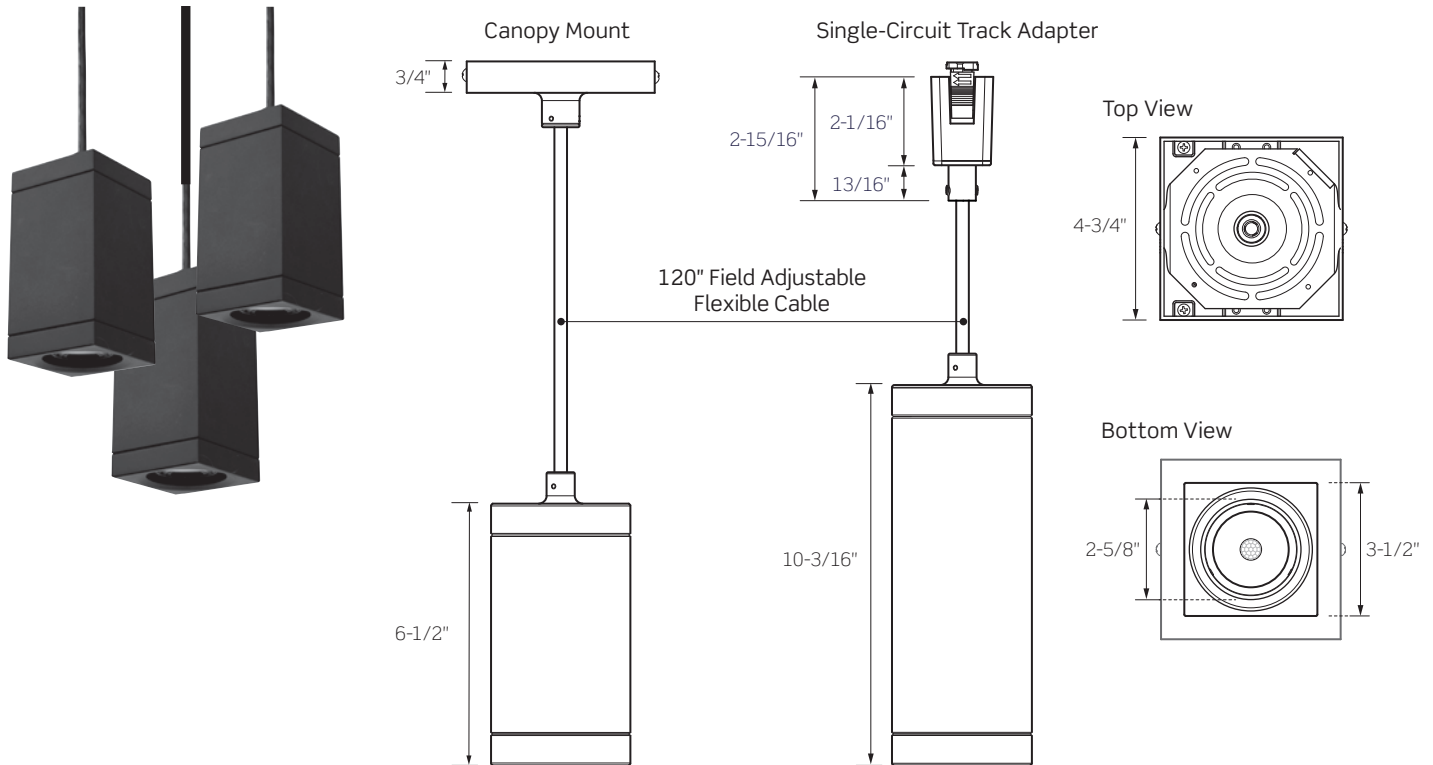





DATE

PROJECT

TYPE

# SQL3 SERIES | 3-1/2-Inch Square Indoor Flexible Cable Pendant Mount Cylinders



|                           | SQL3S1/SQL3T1  | SQL3S2/SQL3T2 | SQL3S3/SQL3T3 |
|---------------------------|--|---------------|---------------|
| WATTAGE                   | 10W  | 14W           | 20W           |
| LUMEN OUTPUT <sup>1</sup> | 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 Inches (Short) / 10-3/16 Inches (Tall)   |               |               |
| 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<br>120V – 277V 0-10V<br>Lutron HiLume EcoSystem   |               |               |
| LISTINGS                  |    cCSAus Certified for use in the U.S. and Canada; Suitable for Damp/Dry locations<br>Cylinders must be installed per specific product installation instructions and all appropriate NEC Codes<br>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

DATE

PROJECT

TYPE

# SQL3 SERIES | 3-1/2-Inch Square Indoor Flexible Cable Pendant Mount Cylinders

## ORDERING INFORMATION

**Example Order:**  -  -

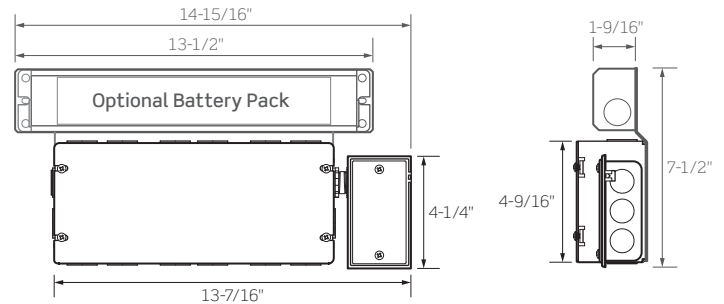
| Cyl. Height                          | LED Series            | Color Temp/CRI   | Driver/Dimming  | Mounting   | Beam                              |
|--------------------------------------|-----------------------|--|---|--|-----------------------------------|
| <b>SQL3S<sup>1</sup></b> - 6-1/2 In. | <b>1</b> - 10W/1254lm | <i>83 (80min) CRI</i>  | <b>12D1</b> - 120V TRIAC/ELV  | <b>FC</b> - Flexible Cable Pendant                                 | <b>S</b> - 14° Spot               |
| <b>SQL3T</b> - 11 In.                | <b>2</b> - 14W/1728lm | <b>27K</b> - 2700K   | <b>MVD2</b> - 120V-277V<br>0-10V Dimming  | <b>TFC<sup>3</sup></b> - Flexible Cable Pendant with Track Adapter | <b>M</b> - 28° Medium             |
|                                      | <b>3</b> - 20W/2323lm | <b>30K</b> - 3000K<br><b>35K</b> - 3500K<br><b>40K</b> - 4000K<br><i>90+ CRI</i>         | <b>MVD4<sup>2</sup></b> - Lutron HiLume 1% EcoSystem Driver with Soft-On, Fade-to-Black |  | <b>F</b> - 39° Flood              |
|                                      |                       | <b>27KC</b> - 2700K<br><b>30KC</b> - 3000K<br><b>35KC</b> - 3500K<br><b>40KC</b> - 4000K |   |  | <b>WF</b> - 49° Wide Flood        |
|                                      |                       |  |   |  | <b>WW<sup>4</sup></b> - Wall Wash |

**Finish**

- B** - Matte Black
- BZ** - Satin Bronze
- P** - Matte White
- S** - Matte Silver
- CC<sup>5</sup>** - Custom Color

**Battery and Remote Enclosure<sup>6</sup>**

- 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

- 10W Short Series (SQL3S1) luminaires are not available with MVD2 Drivers
- Lutron HiLume Drivers must use Remote Driver Enclosure (RD Option)
- Flexible Cable Pendant with Track Adapter (TFC Mount) only available with 12D1 Driver Option; RD and RDB Options not available
- 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)

DATE

PROJECT

TYPE

## SQL3 SERIES | 3-1/2-Inch Square Indoor Flexible Cable Pendant Mount Cylinders

### PRODUCT DETAILS

#### Construction

- Specification Grade 3-1/2-inch square Aluminum Housing with Cast Aluminum Driver Canopy for indoor applications
- Available in 6-1/2- and 10-3/16-inch heights with a 4-3/4-inch square Mounting Canopy
- Suitable for Dry/Damp (indoor) locations
- Includes 120-inches (10 feet) of field adjustable 18/3 or 18/5 SJT Cable
- Black Flexible Cable with Black or Bronze Cylinders, White with White Cylinders and Gray with Silver Cylinders

#### 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 with a CRI of 80 min., 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
- SQL3 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, refer to Dimming Specification sheet

DATE

PROJECT

TYPE

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

## PHOTOMETRICS

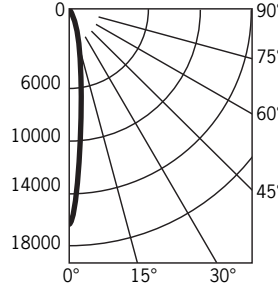
### SQL3S330K12D1CS: Spot Optic

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)<sup>1</sup>: 83  
 Color Temperature (CCT)<sup>2</sup>: 3059K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24013103  
 LM-79 Test No. S24020102

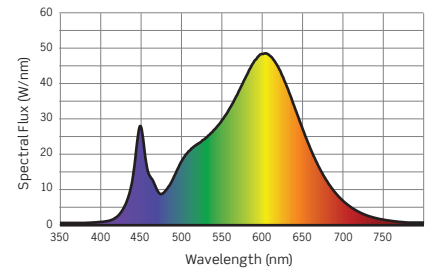
#### Intensity Distribution

| 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 Chart<sup>4</sup>



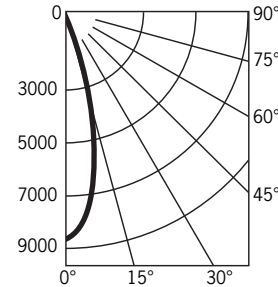
### SQL3S330K12D1CM

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)<sup>1</sup>: 83  
 Color Temperature (CCT)<sup>2</sup>: 3059K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24013102  
 LM-79 Test No. S24020102

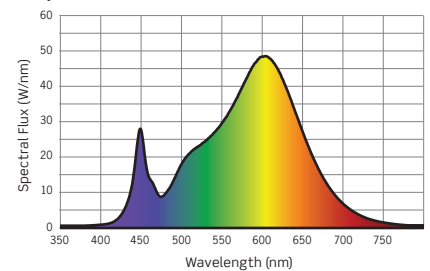
#### Intensity Distribution

| 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 Chart<sup>4</sup>



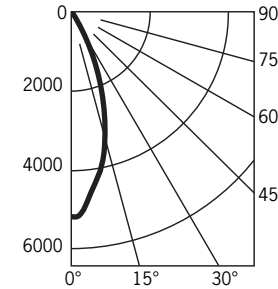
### SQL3S330K12D1CF

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)<sup>1</sup>: 83  
 Color Temperature (CCT)<sup>2</sup>: 3059K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24013104  
 LM-79 Test No. S24020102

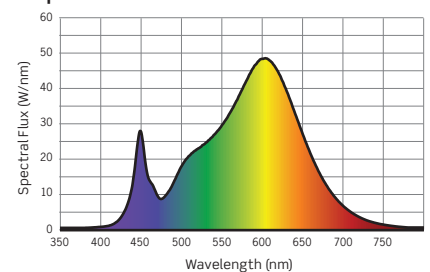
#### Intensity Distribution

| 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 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 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             |

DATE

PROJECT

TYPE

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

## PHOTOMETRICS

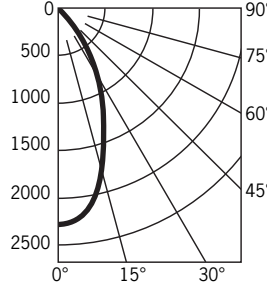
### SQL3S330K12D1CWF: Wide Flood

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)<sup>1</sup>: 83  
 Color Temperature (CCT)<sup>2</sup>: 3059K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24013105  
 LM-79 Test No. S24020102

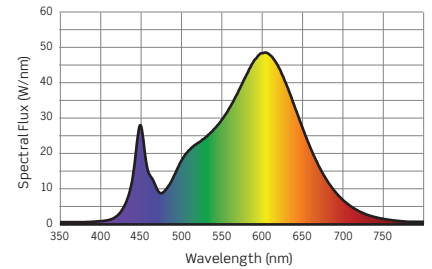
#### Intensity Distribution

| 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 Chart<sup>4</sup>



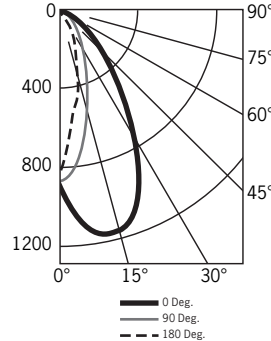
### SQL3S330K12D1CWW: Wall Wash

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)<sup>1</sup>: 83  
 Color Temperature (CCT)<sup>2</sup>: 3059K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24020101  
 LM-79 Test No. S24020102

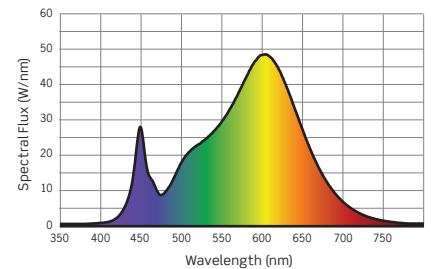
#### Intensity Distribution

| 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 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 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 <sup>1</sup> |
| 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

DATE

PROJECT

TYPE

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

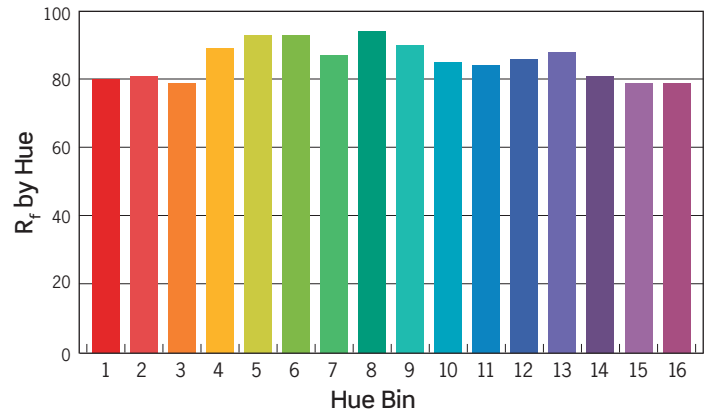
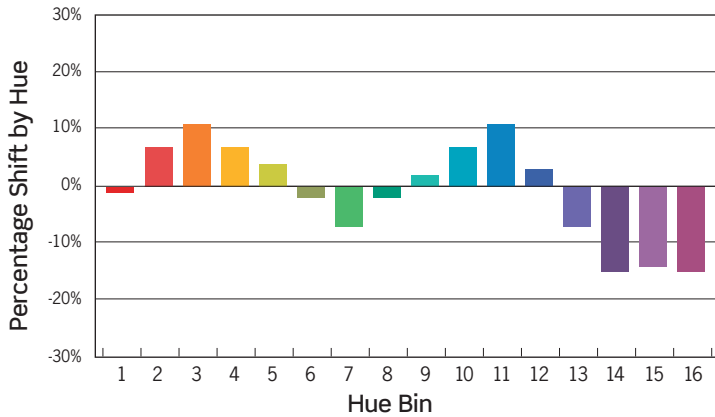
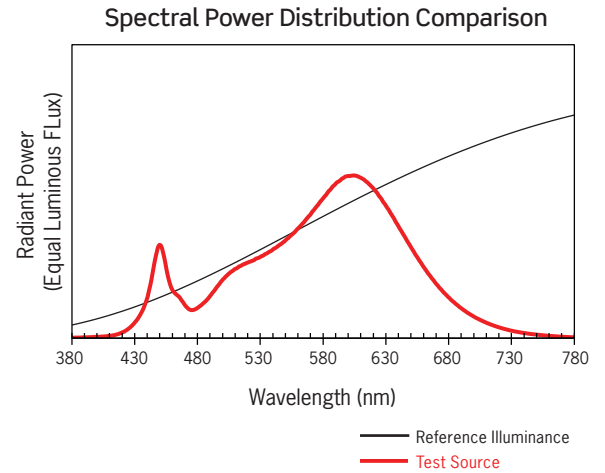
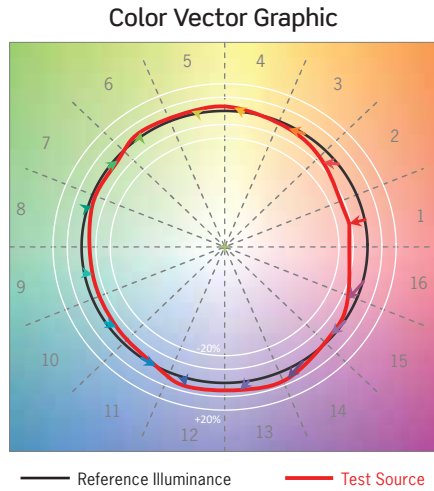
## PHOTOMETRICS

**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 <sub>f</sub> 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](http://www.lutron.com)

|                |                |           | SQL3*<br>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.