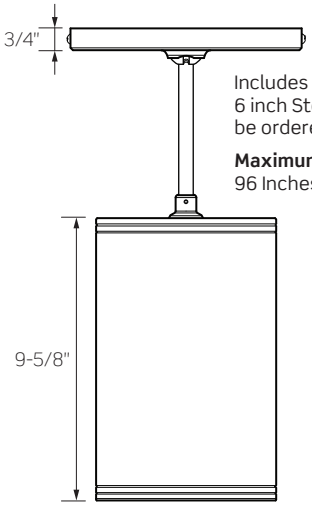
CONTECH LIGHTING | a LEVITON company

CATALOG NO.

DATE PROJECT TYPE

SQL6 SERIES | 6 Inch Indoor/Outdoor Square Cylinders: Rigid Stem Pendant

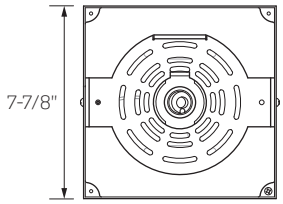
Nominal Weight:
11 Lbs



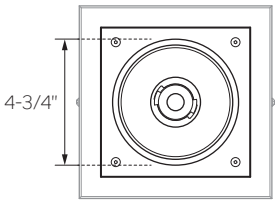
Includes Slope Ceiling Canopy and 6 inch Stem; extra stem lengths must be ordered separately as needed

Maximum Assembled Stem Length: 96 Inches

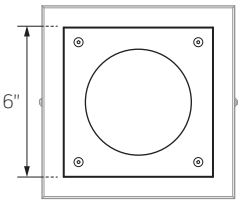
Top View: Indoor/Outdoor



Bottom View: Indoor



Bottom View: Outdoor



	SQL61	SQL62	SQL63	SQL64	SQL65	SQL66
WATTAGE	10W	14W	20W	28W	36W	43W
LUMEN OUTPUT[1]	1220Lm	1700Lm	2310Lm	3183Lm	3879Lm	4358Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K					
CRI	83 (80min) / 90+					
REFLECTOR BEAM	36° / 54° / 63° / 80° / Wall Wash / Pencil Beam					
REFLECTOR FINISHES	Clear Alzak (Narrow, Medium, Wide) / Platinum (Medium)					
CYLINDER FINISHES	Matte Black / Satin Bronze / Matte White / Matte Silver / Custom Colors Available					
DRIVER INPUT WATTAGE	10W	14W	20W	28W	36W	43W
INPUT CURRENT (A) 120V/277V	.08/.04	.12/.06	.17/.08	.23/.11	.31/.14	.36/.16
INPUT VOLTAGE/DIMMING TYPE						
Std Driver (TRIAC, ELV, 0–10V)	120VAC/277VAC, 50/60Hz					
Lutron HiLume® Driver	120VAC, 50/60Hz			N/A	N/A	N/A
Lutron Eco-System® Driver	120VAC/277VAC, 50/60Hz				N/A	N/A
eldoLED ECOdrive/SOLOdrive	120VAC/277VAC, 50/60Hz					
DIMMING RANGE						
Std Driver (TRIAC, ELV, 0–10V)	10–100%					
Lutron HiLume® Driver	1–100%					
Lutron Eco-System® Driver	1–100%					
eldoLED ECOdrive/SOLOdrive	0.1–100%					
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 Wet Location Models have a Silicone Sealed Clear Glass Lens in a Gasketed Die-Cast Trim Ring to ensure unit is watertight ENERGY STAR® Certified; Series 6 (43W)/2700K Combination, Pencil Beam and Wall Wash options are not ENERGY STAR® Certified 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					

1. Approximate lumen output based on 3000K performance; see photometric test results for additional information

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CONTECH LIGHTING | a LEVITON company

CATALOG NO.

DATE PROJECT TYPE

SQL6 SERIES | 6 Inch Indoor/Outdoor Square Cylinders: Rigid Stem Pendant

ORDERING INFORMATION

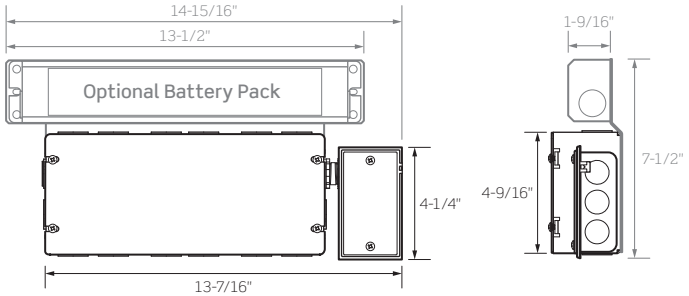
Example Order: CYL3127KMVD4PXNCLR – BZ – [ ]

RS

LED Series	Color Temp/CRI	Driver/Dimming	Mounting[3]	Mntg Location	Reflector Beam
SQL61 - 10W 1220lm **SQL62** - 14W 1700lm **SQL63** - 20W 2310lm **SQL64** - 28W 31380lm **SQL65** - 36W 3879lm **SQL66** - 43W 4358lm	*83 (80min) CRI* **27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K *90+ CRI* **27KC** - 2700K **30KC** - 3000K **35KC** - 3500K **40KC** - 4000K	**MVD** - 120V-277V TRIAC/ELV/0-10V Dimming **34D2** - 347V 0-10V Dimming **12D3**[1] - Lutron Hi-lume 1% 2-Wire LED Driver (120V Forward Phase Only) **MVD4**[2] - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black **MVD6** - eldoLED ECOdrive 0-10V, 1% Dimming **MVD7** - eldoLED ECOdrive DALI, 1% Dimming **MVD8** - eldoLed SOLOdrive 0-10V, 0.1% Dimming **MVD9** - eldoLED SOLOdrive DALI, 0.1% Dimming **MDMX** - eldoLED POWERdrive DMX <1% Dimming **Driver Availability Matrix on following page**	**RS** - Rigid Stem Pendant Canopy Mount	- Interior Dry/Damp Locations, Leave Blank **X** - Exterior/Wet Locations	**NCLR** - 36° Narrow, Clear Alzak **MCLR** - 54° Medium, Clear Alzak **WCLR** - 80° Wide, Clear Alzak **PL** - 63° Platinum **WW** - Wall Wash **PB**[4] - Pencil Beam

— —

Finish	Battery and Remote Enclosure[6,7]
B - Matte Black **BZ** - Satin Bronze **P** - Matte White **S** - Matte Silver **CC**[5] - Custom Color	- 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

RIGID STEM ORDERING INFORMATION

Maximum Standard Pendant Drop: 96 Inches/8 Feet
Consult factory if longer drop is needed

—

Stems for RS Mounting	Finish
6" STEM(A) - 6 In Stem **12" STEM(A)** - 12 In Stem **18" STEM(A)** - 18 In Stem **24" STEM(A)** - 24 In Stem **30" STEM(A)** - 30 In Stem **36" STEM(A)** - 36 In Stem **48" STEM(A)** - 48 In Stem **COUPLING** - Stem Coupling	**B** - Matte Black **BZ** - Satin Bronze **P** - Matte White **S** - Matte Silver **CC**[5] - Custom Color

1. Lutron Dimming Option 12D3 Hi-lume 1% 2-Wire LED Driver is available for Series 1 through 3 luminaires only (10W through 20W); not available for use with Series 4, 5 or 6 (28W, 36W or 43W) luminaires
2. Lutron Dimming Option MVD4 Hi-lume 1% EcoSystem LED Driver is available for Series 1 through 4 luminaires only (10W through 28W); not available for use with Series 5 or 6 (36W or 43W) luminaires
3. Includes Slope Ceiling Canopy (up to 45°) and 6 Inch Stem; extra stem lengths must be ordered separately as needed. Maximum Stem Length: 96 Inches/8 Ft
4. Pencil Beam (PB) Optic limited to Exterior Mount (X Mounting option) locations
5. Custom finish colors available; consult factory for pricing, minimum order quantities and lead time
6. RDB and RD Options must be installed in Dry/Damp locations
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

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CATALOG NO.

DATE PROJECT TYPE

SQL6 SERIES | 6 Inch Indoor/Outdoor Square Cylinders: Rigid Stem Pendant

DRIVER AVAILABILITY MATRIX

Highest wattage option for each Driver/Dimmer type that will fit inside the luminaire;
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	Max Wattage	Driver	Max Wattage	Driver	Max Wattage
MVD 120V–277V TRIAC/ELV	Any Wattage	**MVD6** eldoLED ECODrive 0–10V	N/A	**MVD9** eldoLED SOLODrive DALI	N/A
12D3[7] 120V Lutron Hi-lume 1% 2-Wire	Up to 20W (CYL63)	**MVD7** eldoLED ECODrive DALI	N/A	**MDMX** eldoLED POWERdrive DMX	N/A
MVD4[7] Lutron Hi-lume 1% EcoSystem	Up to 28W (CYL64)	**MVD8** eldoLED SOLODrive 0–10V	N/A	**34D2** 347V 0–10V	Any Wattage

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

PRODUCT DETAILS

Construction

- Specification Grade 6 inch square Aluminum Housing; suitable for Dry/Damp (indoor) or Wet (outdoor) location types
- Wet Location Cylinders feature a Silicone Sealed Clear Glass Lens in a Gasketed Die-Cast Trim Ring to ensure unit is watertight
- Includes Sloped Ceiling Canopy (up to 45°) and 6 inch Stem; additional stem lengths must be ordered separately as needed
- Maximum Pendant Drop: 96 Inches/8 Feet; for longer drops consult factory
- Stem Thread: 1/4-18NPS

Performance Summary

- Clear Alzak Reflector is 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 are also available
- 2700K, 3000K, 3500K and 4000K Color Temperatures; CRI of 80 min., 83 typical; high CRI of 90+ available
- 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

BUG RATINGS

	REFLECTOR					
LED WATTAGE	NARROW	MEDIUM	WIDE	PLATINUM	WALL WASH[1]	PENCIL BEAM
10W	B1 U0 G0	B1 U0 G0	B1 U0 G1	B1 U0 G1	B0 U0 G0	B0 U0 G0
14W	B1 U0 G0	B2 U0 G0	B2 U0 G0	B2 U0 G0	B0 U0 G0	B0 U0 G0
20W	B1 U0 G0	B2 U0 G0	B2 U0 G0	B2 U0 G0	B0 U0 G0	B0 U0 G0
28W	B1 U0 G0	B2 U0 G0	B2 U0 G0	B2 U0 G0	B0 U0 G0	B0 U0 G0
36W	B2 U0 G0	B3 U0 G0	B3 U0 G1	B3 U0 G1	B1 U0 G0	B0 U0 G0
43W	B2 U0 G0	B3 U0 G0	B3 U0 G1	B3 U0 G1	B1 U0 G0	B0 U0 G0

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

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CATALOG NO.

DATE PROJECT TYPE

SQL6 SERIES | 6 Inch Indoor/Outdoor Square Cylinders: Photometrics

SQL6630KMVDCNCLR

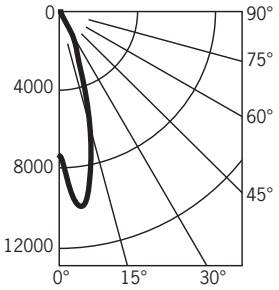
Fixture Delivered Lumens: 4306.3
Total Watts@120V: 42.2
Lumens Per Watt: 102.0
Center Beam Candle Power: 7509
Beam Distribution: 35.0°
Spacing Criterion: 0.62
Color Rendering Index (CRI)[1]: 83.6
Color Temperature (CCT)[2]: 3086K

Designed for 50,000 Hour Lamp Life[3]
LM-63 Test No. G21091502
LM-79 Test No. S21081101

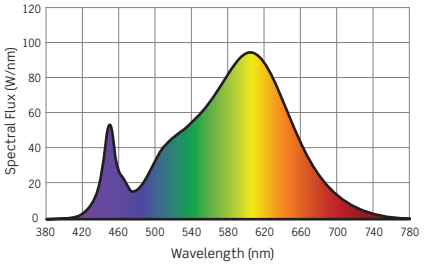
Intensity Distribution

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[4]



SQL6630KMVDCMCLR

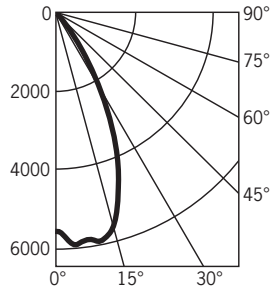
Fixture Delivered Lumens: 4357.9
Total Watts@120V: 42.2
Lumens Per Watt: 103.3
Center Beam Candle Power: 5567
Beam Distribution: 53.7°
Spacing Criterion: 0.820
Color Rendering Index (CRI)[1]: 83.6
Color Temperature (CCT)[2]: 3086K

Designed for 50,000 Hour Lamp Life[3]
LM-63 Test No. G21091501
LM-79 Test No. S21081101

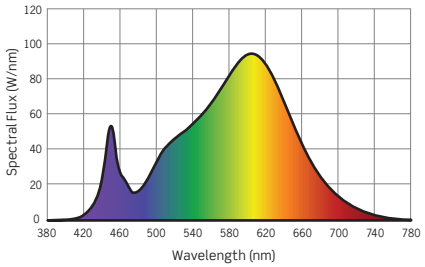
Intensity Distribution

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[4]



SQL6330KMVDCWCLR

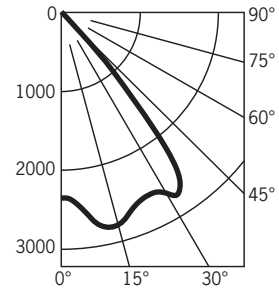
Fixture Delivered Lumens: 4174.3
Total Watts@120V: 42.2
Lumens Per Watt: 98.9
Center Beam Candle Power: 2383
Beam Distribution: 79.8°
Spacing Criterion: 1.20
Color Rendering Index (CRI)[1]: 83.6
Color Temperature (CCT)[2]: 3086K

Designed for 50,000 Hour Lamp Life[3]
LM-63 Test No. G21091503
LM-79 Test No. S21081101

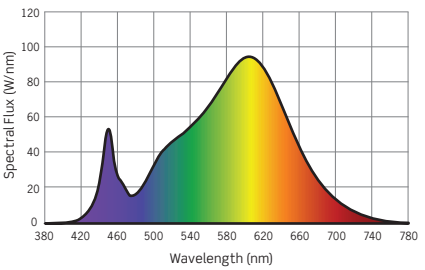
Intensity Distribution

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[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 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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CATALOG NO.

DATE PROJECT TYPE

SQL6 SERIES | 6 Inch Indoor/Outdoor Square Cylinders: Photometrics

SQL6630KMVDCPL

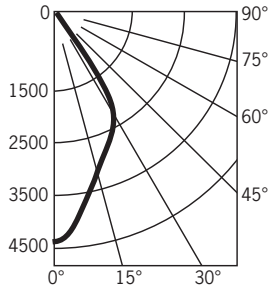
Fixture Delivered Lumens: 3823.3
Total Watts@120V: 42.2
Lumens Per Watt: 90.6
Center Beam Candle Power: 4440
Beam Distribution: 63.1°
Spacing Criterion: 0.93
Color Rendering Index (CRI)[1]: 83.6
Color Temperature (CCT)[2]: 3086K

Designed for 50,000 Hour Lamp Life[3]
LM-63 Test No. G21091504
LM-79 Test No. S21081101

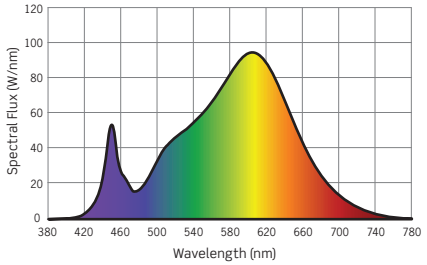
Intensity Distribution

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[4]



SQL6630KMVDCWW

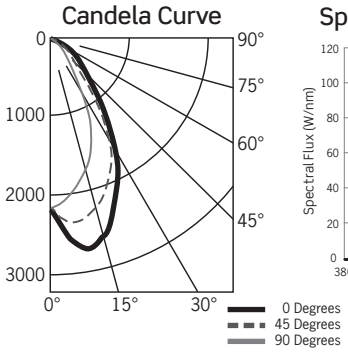
Fixture Delivered Lumens: 2168.7
Total Watts@120V: 42.1
Lumens Per Watt: 51.5
Center Beam Candle Power: 2146
Beam Distribution: Wall Wash
Spacing Criterion: 0.81
Color Rendering Index (CRI)[1]: 83.6
Color Temperature (CCT)[2]: 3086K

Designed for 50,000 Hour Lamp Life[3]
LM-63 Test No. G21091601
LM-79 Test No. S21081101

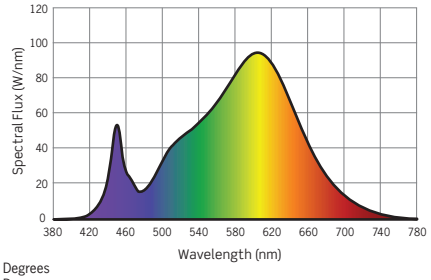
Intensity Distribution

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[4]



SQL6630KMVDCXPB

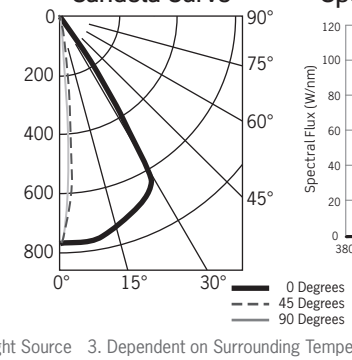
Fixture Delivered Lumens: 117.3
Total Watts@120V: 42.1
Lumens Per Watt: 2.8
Center Beam Candle Power: 766
Beam Distribution: 8.3°
Spacing Criterion: 0.99
Color Rendering Index (CRI)[1]: 83.6
Color Temperature (CCT)[2]: 3086K

Designed for 50,000 Hour Lamp Life[3]
LM-63 Test No. G22021602
LM-79 Test No. S21081101

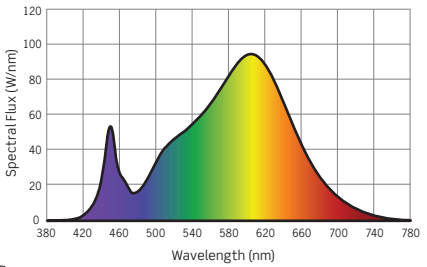
Intensity Distribution

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	112.8
14 FT	3.9	14.9

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 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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CATALOG NO.

DATE PROJECT TYPE

SQL6 SERIES | 6 Inch Indoor/Outdoor Square Cylinders: Photometrics

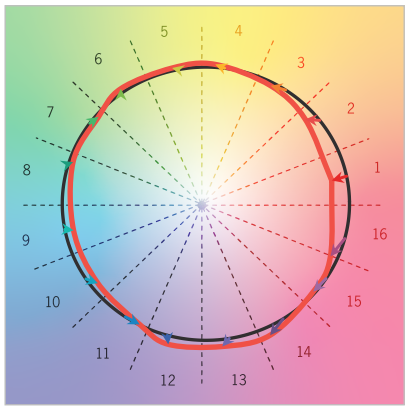
TM-30 DATA: SQL6630KMVDCMCLR

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

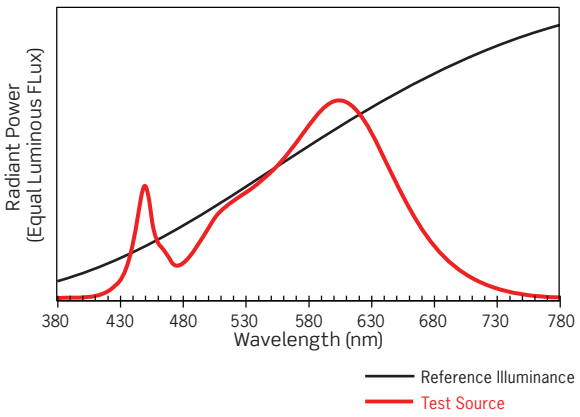
Colors are for visual orientation purposes only

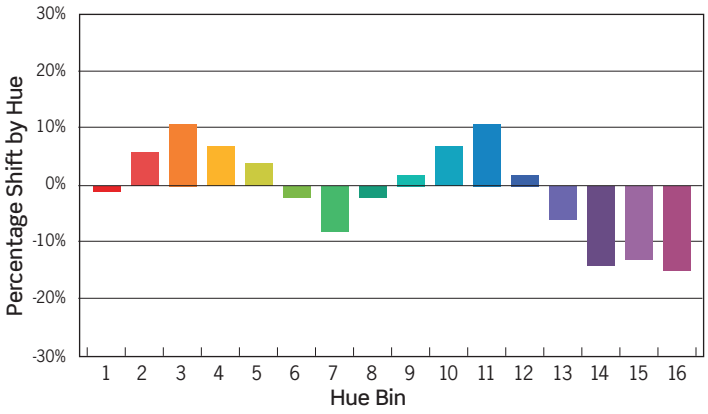
R_f	86
R_g	97
CCT(K)	3086K
D_{uv}	0.0017
u^I	0.2470
v^I	0.5220

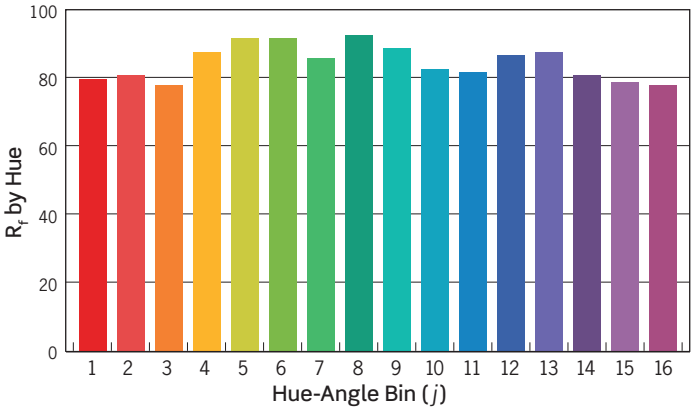
Color Vector Graphic



Spectral Power Distribution Comparison







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_f VALUE	81	83	80	89	93	93	88	94	91	84	83	88	89	82	80	80

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CONTECH LIGHTING | a LEVITON company

SQL6 SERIES | 6 Inch 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 (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 (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 (2) 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.

			MVD Dimming Option	**MVD6 Dimming Option**	**MVD8 Dimming Option**
Manufacturer	**Product**	**Model**	**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 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.

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