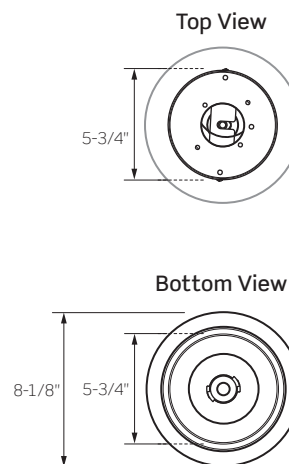
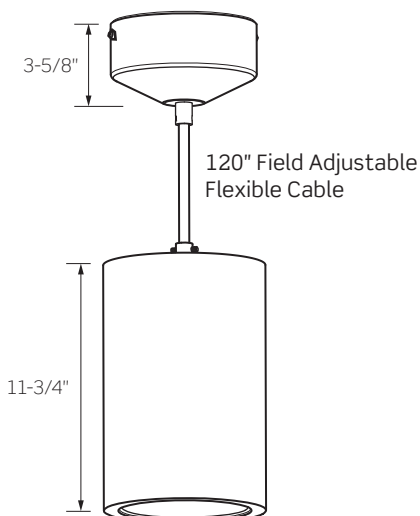





DATE

PROJECT

TYPE

## CYL8 SERIES | 8-Inch Round Indoor Flexible Cable Canopy Pendant Mount Cylinders



	CYL81	CYL82	CYL83	CYL84	CYL85	CYL86
WATTAGE	10W	14W	20W	28W	36W	43W
LUMEN OUTPUT <sup>1</sup>	1246Lm	1736Lm	2359Lm	3204Lm	3961Lm	4450Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K					
CRI	83 (80min) / 90+					
REFLECTOR BEAM	34° / 66° / 69° / 75° / 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				N/A	N/A
Lutron Eco-System® Driver	120VAC/277VAC, 50/60Hz					
eldoLED ECOdrive/SOLOdrive	120VAC/277VAC, 50/60Hz					
DIMMING RANGE						
Std Driver (TRIAC, ELV, 0-10V)	10-100%					
Lutron Eco-System® Driver	1-100%					
eldoLED ECOdrive/SOLOdrive	0.1-100%					
DRIVER POWER FACTOR	> 0.90					
TOTAL HARMONIC DISTORTION	< 20%					
<div><div><div>cCSAus Listed</div></div><div><div>Damp/Dry Location</div></div><div><div>ENERGY STAR®</div></div></div> LISTINGS	cCSAus Certified for use in the U.S. and Canada; Suitable for Damp/Dry locations ENERGY STAR® Certified; Wall Wash option is 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

DATE

PROJECT

TYPE

# CYL8 SERIES | 8-Inch Round Indoor Flexible Cable Canopy Pendant Mount Cylinders

## ORDERING INFORMATION

**Example Order:** CYL8127KMVD4FCNCLR - BZ -

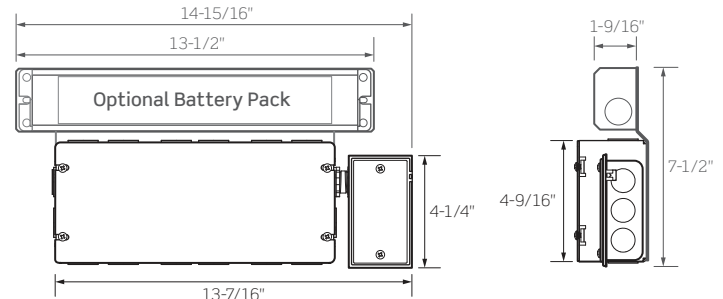
Cylinder LED Series	Color Temp/CRI	Driver/Dimming	Mounting	Reflector/Optic
<b>CYL81</b> - 10W / 1246lm	83 (80min) CRI	<b>MVD</b> - 120V-277V TRIAC/ELV 0-10V Dimming	<b>FC</b> - Flexible Cable Canopy Mount	<b>NCLR</b> - 34° Narrow, Clear Alzak
<b>CYL82</b> - 14W / 1736lm	<b>27K</b> - 2700K	<b>34D2</b> - 347V 0-10V Dimming		<b>MCLR</b> - 66° Medium, Clear Alzak
<b>CYL83</b> - 20W / 2359lm	<b>30K</b> - 3000K	<b>MVD4</b> <sup>1</sup> - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black		<b>WCLR</b> - 75° Wide, Clear Alzak
<b>CYL84</b> - 28W / 3204lm	<b>35K</b> - 3500K	<b>MVD6</b> - eldoLED ECODrive 0-10V, 1% Dimming		<b>PL</b> - 69° Platinum
<b>CYL85</b> - 36W / 3961lm	<b>40K</b> - 4000K	<b>MVD7</b> - eldoLED ECODrive DALI, 1% Dimming		<b>WW</b> - Wall Wash
<b>CYL86</b> - 43W / 4450lm	90+ CRI	<b>MVD8</b> - eldoLED SOLODrive 0-10V, 0.1% Dimming		
	<b>27KC</b> - 2700K	<b>MVD9</b> - eldoLED SOLODrive DALI, 0.1% Dimming		
	<b>30KC</b> - 3000K	<b>MDMX</b> - eldoLED POWERdrive DMX <1% Dimming		
	<b>35KC</b> - 3500K			
	<b>40KC</b> - 4000K			

### Finish

**B** - Matte Black  
**BZ** - Satin Bronze  
**P** - Matte White  
**S** - Matte Silver  
**CC**<sup>2</sup> - Custom Color

### Battery and Remote Enclosure<sup>3,4</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

- 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
- Custom Finish colors available; consult factory for pricing, minimum order quantities and lead time
- RDB and RD Options must be installed in Dry/Damp locations
- 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/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
<b>MVD</b> 120V-277V TRIAC/ELV	Any Wattage	<b>MVD7</b> eldoLED ECODrive DALI	Up to 36W (CYL85)	<b>MDMX</b> eldoLED POWERdrive DMX	N/A
<b>MVD4</b> <sup>5</sup> Lutron Hi-lume 1% EcoSystem	Up to 28W (CYL84)	<b>MVD8</b> eldoLED SOLODrive 0-10V	Up to 36W (CYL85)	<b>34D2</b> 347V 0-10V	Any Wattage
<b>MVD6</b> eldoLED ECODrive 0-10V	Up to 36W (CYL85)	<b>MVD9</b> eldoLED SOLODrive DALI	Up to 36W (CYL85)		

DATE

PROJECT

TYPE

## CYL8 SERIES | 8-Inch Round Indoor Flexible Cable Canopy Pendant Mount Cylinders

### PRODUCT DETAILS

#### Construction

- Specification Grade 8 inch diameter Aluminum Housing; suitable for Dry/Damp (indoor) locations
- 16 Gauge Steel Driver Canopy
- Includes 120 inches of Field Adjustable 18/3 SJTOW Cable
- Black Flexible Cable with Black or Bronze Cylinders, White Flexible Cable with White Cylinders and Gray Flexible Cable with Silver Cylinders

#### Performance Summary

- Clear Alzak Reflector is available in 34° Narrow, 66° Medium and 75° Wide beam distributions
- Platinum Reflector is available in a 69° Medium beam distribution
- Wall Wash Optic also available
- 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
- CYL8 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, refer to Dimming Specification sheet

### BUG RATINGS

LED WATTAGE	REFLECTOR					
	NARROW	MEDIUM	WIDE	PLATINUM	WALL WASH <sup>1</sup>	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

DATE

PROJECT

TYPE

## CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Photometrics

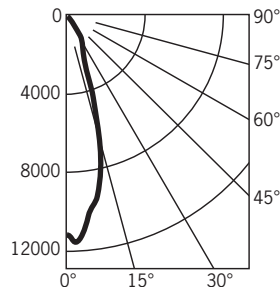
### CYL8630KMVDCNCLR

Fixture Delivered Lumens: 4450.1  
Total Watts@120V: 42.2  
Lumens Per Watt: 105.5  
Center Beam Candle Power: 11108  
Beam Distribution: 32.4°  
Spacing Criterion: 0.53  
Color Rendering Index (CRI)<sup>1</sup>: 83.3  
Color Temperature (CCT)<sup>2</sup>: 3079K  
Designed for 50,000 Hour Lamp Life<sup>3</sup>  
LM-63 Test No. G21080903  
LM-79 Test No. S21081102

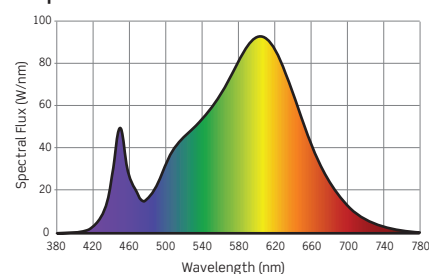
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	694.2	2.3
6 FT	308.6	3.5
8 FT	173.6	4.7
10 FT	111.1	5.8
12 FT	77.1	7.0
14 FT	56.7	8.1

#### Candela Curve



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



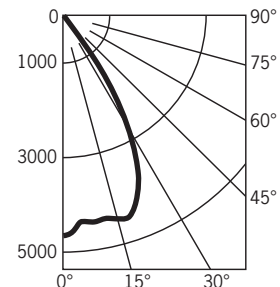
### CYL8630KMVDCMCLR

Fixture Delivered Lumens: 4336.5  
Total Watts@120V: 42.2  
Lumens Per Watt: 102.8  
Center Beam Candle Power: 4641  
Beam Distribution: 63.4°  
Spacing Criterion: 0.93  
Color Rendering Index (CRI)<sup>1</sup>: 83.3  
Color Temperature (CCT)<sup>2</sup>: 3079K  
Designed for 50,000 Hour Lamp Life<sup>3</sup>  
LM-63 Test No. G21080902  
LM-79 Test No. S21081102

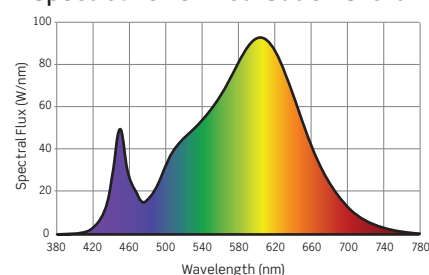
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	290.1	5.0
6 FT	128.9	7.4
8 FT	72.5	9.9
10 FT	46.4	12.4
12 FT	32.2	15.0
14 FT	23.7	17.3

#### Candela Curve



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



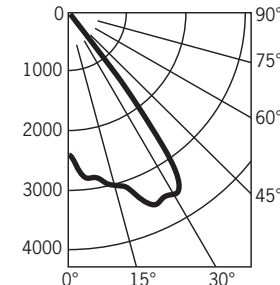
### CYL8630KMVDCWCLR

Fixture Delivered Lumens: 4417.0  
Total Watts@120V: 42.2  
Lumens Per Watt: 104.7  
Center Beam Candle Power: 2409  
Beam Distribution: 79.8°  
Spacing Criterion: 1.10  
Color Rendering Index (CRI)<sup>1</sup>: 83.3  
Color Temperature (CCT)<sup>2</sup>: 3079K  
Designed for 50,000 Hour Lamp Life<sup>3</sup>  
LM-63 Test No. G21080904  
LM-79 Test No. S21081102

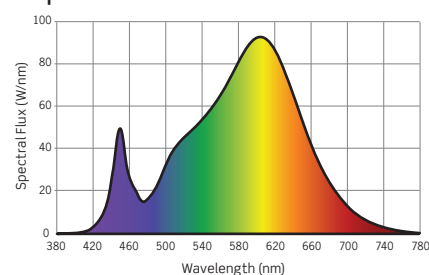
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	150.6	6.0
6 FT	66.9	9.1
8 FT	37.6	12.1
10 FT	24.1	15.1
12 FT	16.7	18.1
14 FT	12.3	21.1

#### 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					

DATE

PROJECT

TYPE

## CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Photometrics

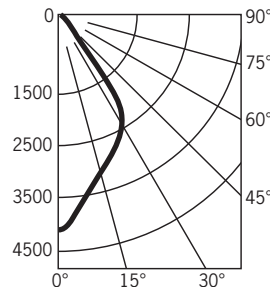
### CYL8630KMVDCPL

Fixture Delivered Lumens: 3891.4  
Total Watts@120V: 42.2  
Lumens Per Watt: 92.2  
Center Beam Candle Power: 4116  
Beam Distribution: 68.4°  
Spacing Criterion: 0.99  
Color Rendering Index (CRI)<sup>1</sup>: 83.3  
Color Temperature (CCT)<sup>2</sup>: 3079K  
Designed for 50,000 Hour Lamp Life<sup>3</sup>  
LM-63 Test No. G21080905  
LM-79 Test No. S21081102

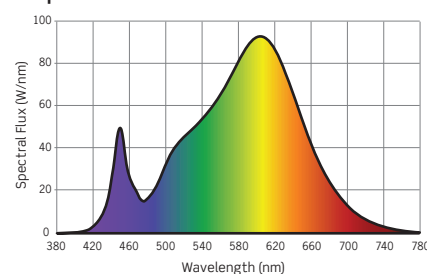
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	257.2	5.4
6 FT	114.3	8.2
8 FT	64.3	10.9
10 FT	41.2	13.6
12 FT	28.6	16.3
14 FT	21.0	19.0

#### Candela Curve



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



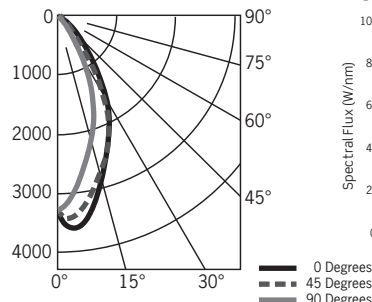
### CYL8630KMVDCWW

Fixture Delivered Lumens: 2512.5  
Total Watts@120V: 42.4  
Lumens Per Watt: 59.3  
Center Beam Candle Power: 3297  
Beam Distribution: 41.4° x 44.6°  
Spacing Criterion: 0.65  
Color Rendering Index (CRI)<sup>1</sup>: 83.3  
Color Temperature (CCT)<sup>2</sup>: 3079K  
Designed for 50,000 Hour Lamp Life<sup>3</sup>  
LM-63 Test No. G21081001  
LM-79 Test No. S21081102

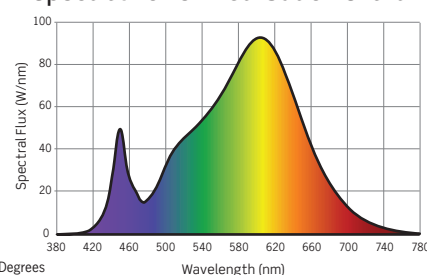
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	206.1	3.1
6 FT	91.6	4.7
8 FT	51.5	6.2
10 FT	33.0	7.8
12 FT	22.9	9.3
14 FT	16.8	10.9

#### Candela Curve



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



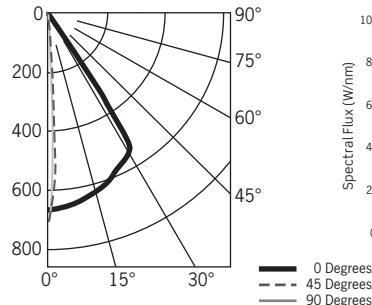
### CYL8630KMVDCXPB

Fixture Delivered Lumens: 95.2  
Total Watts@120V: 42.4  
Lumens Per Watt: 2.25  
Center Beam Candle Power: 844  
Beam Distribution: 6.8° x 56.0°  
Spacing Criterion: 1.0  
Color Rendering Index (CRI)<sup>1</sup>: 83.3  
Color Temperature (CCT)<sup>2</sup>: 3079K  
Designed for 50,000 Hour Lamp Life<sup>3</sup>  
LM-63 Test No. G22021601  
LM-79 Test No. S21081102

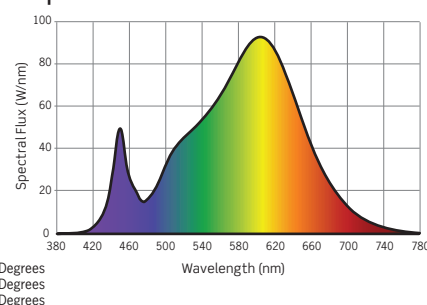
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	52.7	3.8
6 FT	23.4	5.8
8 FT	13.2	7.7
10 FT	8.4	9.6
12 FT	5.9	11.5
14 FT	4.3	13.4

#### 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					

DATE

PROJECT

TYPE

# CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Photometrics

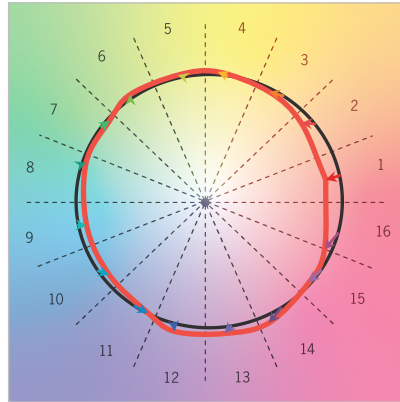
## TM-30 DATA: CYL8630KMVDCMCLR

ANSI/IES TM-30-18 Color Rendition Report Test No. S21081102

Colors are for visual orientation purposes only

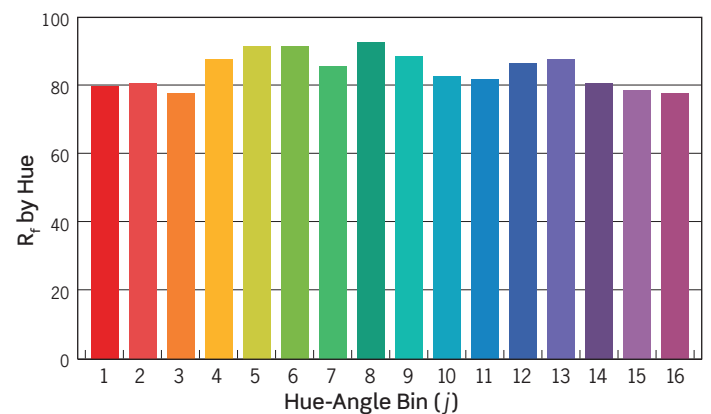
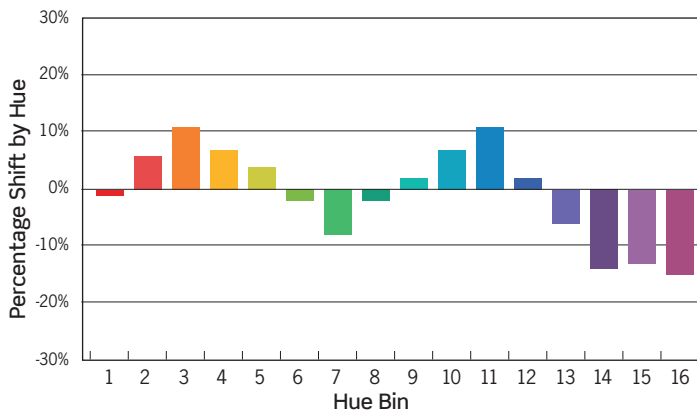
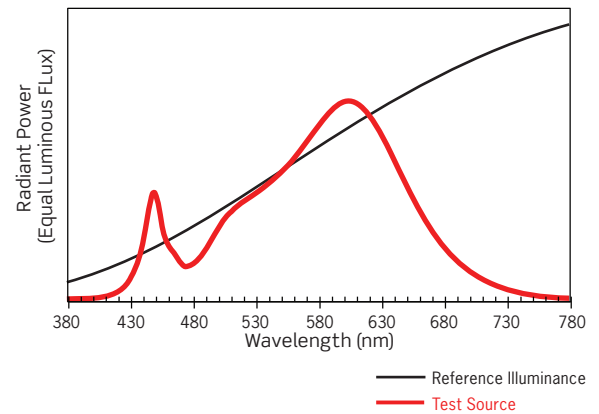
$R_f$	86
$R_g$	96
CCT(K)	3079K
$D_{uv}$	0.0019
$u^l$	0.2472
$v^l$	0.5224

Color Vector Graphic



— Reference Illuminance — Test Source

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 <sub>f</sub> VALUE	81	82	79	89	93	93	87	94	90	84	83	88	89	82	80	80

# CYL8 SERIES | 8-Inch Round 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 (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 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	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	Faetra	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.