

DATE

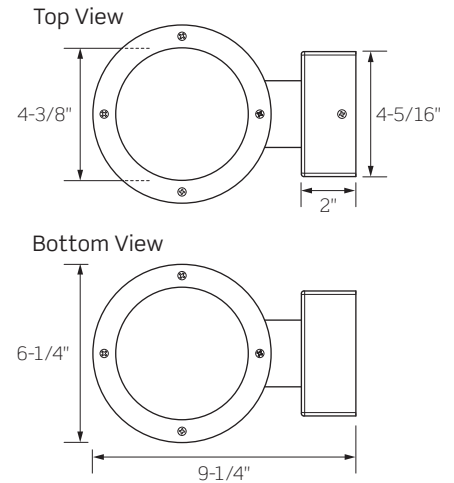
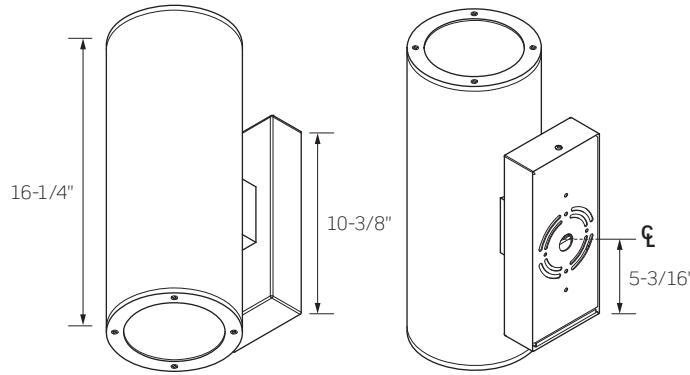
PROJECT

TYPE



# CYL6 SERIES | 6 Inch Indoor/Outdoor Round Cylinders: Up/Down Wall Mount



**Nominal Weight:**  
9.5 Lbs



Up/Down Wall Mount Cylinders consist of Dual Light Engines:  
One (1) oriented down and One (1) oriented up

	CYL61	CYL62	CYL63	CYL64	CYL65	CYL66																												
TOTAL LUMINAIRE WATTAGE	20W	28W	40W	56W	72W	86W																												
INDIVIDUAL ENGINE WATTAGE	10W	14W	20W	28W	36W	43W																												
TOTAL LUMINAIRE LUMEN OUTPUT <sup>1</sup>	2440Lm	3370Lm	4600Lm	6200Lm	7700Lm	8700Lm																												
INDIVIDUAL ENGINE LUMEN OUTPUT <sup>1</sup>	1220Lm	1685Lm	2300Lm	3100Lm	3850Lm	4350Lm																												
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/.17																												
INPUT VOLTAGE/DIMMING TYPE	<table border="0"> <tr> <td>Std Driver (TRIAC, ELV, 0-10V)</td> <td colspan="6">120VAC/277VAC, 50/60Hz</td> </tr> <tr> <td>Lutron HiLume® Driver</td> <td colspan="3"></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Lutron Eco-System® Driver</td> <td colspan="4">120VAC/277VAC, 50/60Hz</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>eldoLED ECOdrive/SOLOdrive</td> <td colspan="6">120VAC/277VAC, 50/60Hz</td> </tr> </table>						Std Driver (TRIAC, ELV, 0-10V)	120VAC/277VAC, 50/60Hz						Lutron HiLume® Driver				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					
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Lutron HiLume® Driver				N/A	N/A	N/A																												
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eldoLED ECOdrive/SOLOdrive	120VAC/277VAC, 50/60Hz																																	
DIMMING RANGE	<table border="0"> <tr> <td>Std Driver (TRIAC, ELV, 0-10V)</td> <td colspan="6">10-100%</td> </tr> <tr> <td>Lutron HiLume® Driver</td> <td colspan="6">1-100%</td> </tr> <tr> <td>Lutron Eco-System® Driver</td> <td colspan="6">1-100%</td> </tr> <tr> <td>eldoLED ECOdrive/SOLOdrive</td> <td colspan="6">0.1-100%</td> </tr> </table>						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%					
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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 ensure unit is watertight Cylinders 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
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# CYL6 SERIES | 6 Inch Indoor/Outdoor Round Cylinders: Up/Down Wall Mount

## ORDERING INFORMATION

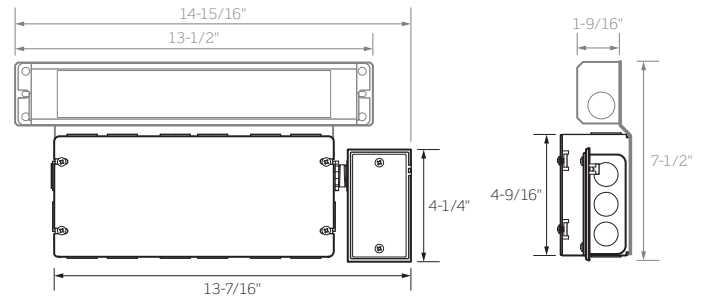
Standard Luminaire construction uses identical Lumen Packages, Color Temperatures or Beam Spreads in both directions; Consult factory if different Lumen Packages, Color Temperatures or Beam Spreads are required in each direction of the Luminaire

**Example Order:**  -  -

Light Engine <sup>1</sup>	Color Temp/CRI	Driver/Dimming	Mounting	Mntg Location	Reflector Beam
<b>CYL61</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	- Interior Dry/Damp Locations, Leave Blank	<b>NCLR</b> - 36° Narrow, Clear Alzak
<b>CYL62</b> - 14W 1685lm	<b>30K</b> - 3000K <b>35K</b> - 3500K	<b>34D2</b> - 347V 0-10V Dimming			<b>MCLR</b> - 54° Medium, Clear Alzak
<b>CYL63</b> - 20W 2300lm	<b>40K</b> - 4000K 90+ CRI	<b>12D3</b> <sup>2</sup> - Lutron Hi-lume 1% 2-Wire LED Driver (120V Forward Phase Only)		<b>X</b> - Exterior Wet Locations	<b>WCLR</b> - 80° Wide, Clear Alzak
<b>CYL64</b> - 28W 3100lm	<b>27KC</b> - 2700K	<b>MVD4</b> <sup>2</sup> - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black			<b>PL</b> - 63° Platinum
<b>CYL65</b> - 36W 3850lm	<b>30KC</b> - 3000K <b>35KC</b> - 3500K	<b>MVD6</b> - eldoLED ECOdrive 0-10V, 1% Dimming			<b>WW</b> <sup>3</sup> - Wall Wash
<b>CYL66</b> - 43W 4350lm	<b>40KC</b> - 4000K	<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>3,4</sup> - Pencil Beam

**Driver Availability Matrix on following page**

Finish	Battery and Remote Enclosure <sup>6, 7, 8</sup>
<b>B</b> - Matte Black	- None, Leave Blank
<b>BZ</b> - Satin Bronze	<b>RDB</b> - Remote Driver & Battery Pack
<b>P</b> - Matte White	<b>RD</b> - Remote Driver Enclosure
<b>S</b> - Matte Silver	
<b>CC</b> <sup>5</sup> - Custom Color	



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

1. Wattage/Lumen options listed are for a Single Light Engine
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. Wall Wash (WW) and Pencil Beam (PB) limited to Series 4 and lower Luminaires (28W and lower Individual Light Engine)
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. RD and RDB Options must be installed in Dry/Damp Locations
7. 90 Minute Battery Backup option powers only the Down Light Engine; consult factory for alternate options
8. RDB and RD Options cannot be used with Lutron Hi-lume Dimming (12D3/MVD4 Options) in Series 5 or 6 Luminaires (36W or 43W)

DATE

PROJECT

TYPE

# CYL6 SERIES | 6 Inch Indoor/Outdoor Round Cylinders: Up/Down Wall Mount

## 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>MVD6</b> eldoLED ECODrive 0-10V	Up to 36W (CYL65)	<b>MVD9</b> eldoLED SOLODrive DALI	Up to 36W (CYL65)
<b>12D3<sup>5</sup></b> 120V Lutron Hi-lume 1% 2-Wire	Up to 28W (CYL64)	<b>MVD7</b> eldoLED ECODrive DALI	Up to 36W (CYL65)	<b>MDMX</b> eldoLED POWERdrive DMX	N/A
<b>MVD4<sup>5</sup></b> Lutron Hi-lume 1% EcoSystem	Up to 28W (CYL64)	<b>MVD8</b> eldoLED SOLODrive 0-10V	Up to 36W (CYL65)	<b>34D2</b> 347V 0-10V	Any Wattage

## PRODUCT DETAILS

### Construction

- Specification Grade 6 inch diameter 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
- Bracket Support 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 direction of an Up/Down Luminaire
- Battery Backup option powers only the Down Light Engine; consult factory for alternate options

### 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 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
- CYL6 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, refer to Dimming Specification sheet

DATE

PROJECT

TYPE

# CYL6 SERIES | 6 Inch Indoor/Outdoor Round Cylinders: Photometrics

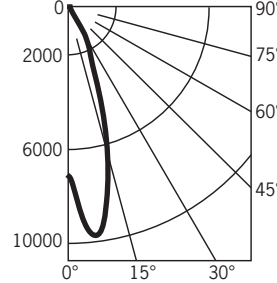
## CYL6630KMVDCNCLR

Fixture Delivered Lumens: 4301.9  
 Total Watts@120V: 42.3  
 Lumens Per Watt: 101.7  
 Center Beam Candle Power: 7111  
 Beam Distribution: 35.7°  
 Spacing Criterion: 0.64  
 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. G21080504  
 LM-79 Test No. S21081101

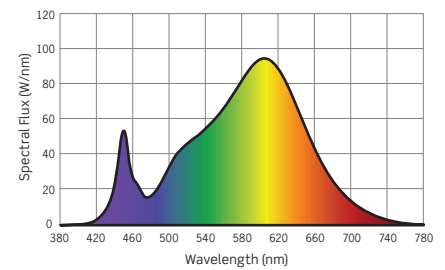
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	444.5	2.6
6 FT	197.5	3.9
8 FT	111.1	5.1
10 FT	71.1	6.4
12 FT	49.4	7.7
14 FT	36.3	9.0

### Candela Curve



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



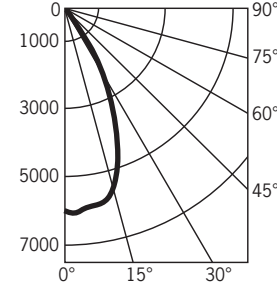
## CYL6630KMVDCMCLR

Fixture Delivered Lumens: 4348.9  
 Total Watts@120V: 42.3  
 Lumens Per Watt: 102.8  
 Center Beam Candle Power: 6032  
 Beam Distribution: 53.3°  
 Spacing Criterion: 0.80  
 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. G16122002  
 LM-79 Test No. S21081101

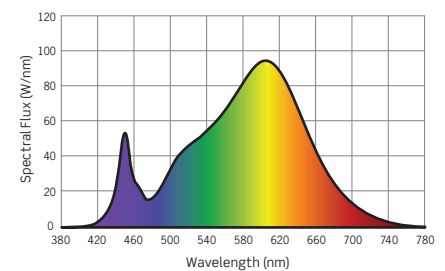
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	377.0	4.0
6 FT	167.6	6.0
8 FT	94.2	8.0
10 FT	60.3	10.1
12 FT	41.9	12.1
14 FT	30.8	14.1

### Candela Curve



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



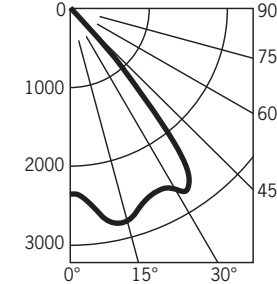
## CYL6630KMVDCWCLR

Fixture Delivered Lumens: 4153.7  
 Total Watts@120V: 42.3  
 Lumens Per Watt: 98.2  
 Center Beam Candle Power: 2367  
 Beam Distribution: 79.9°  
 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. G16122003  
 LM-79 Test No. S21081101

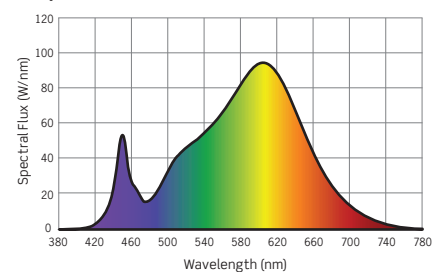
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	147.9	6.7
6 FT	65.7	10.1
8 FT	37.0	13.4
10 FT	23.7	16.8
12 FT	16.4	20.1
14 FT	12.1	23.5

### 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

# CYL6 SERIES | 6 Inch Indoor/Outdoor Round Cylinders: Photometrics

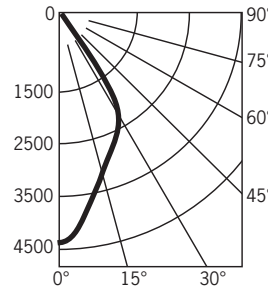
## CYL6630KMVDCPL

Fixture Delivered Lumens: 3801.8  
 Total Watts@120V: 42.3  
 Lumens Per Watt: 89.9  
 Center Beam Candle Power: 4413  
 Beam Distribution: 63.0°  
 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. G21080602  
 LM-79 Test No. S21081101

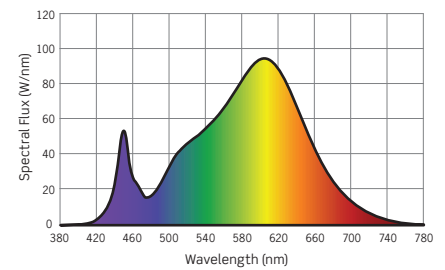
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	275.8	4.9
6 FT	122.6	7.4
8 FT	69.0	9.8
10 FT	44.1	12.2
12 FT	30.6	14.7
14 FT	22.5	17.1

### Candela Curve



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



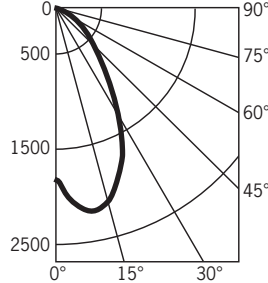
## CYL6630KMVDCWW

Fixture Delivered Lumens: 1900.3  
 Total Watts@120V: 42.0  
 Lumens Per Watt: 45.2  
 Center Beam Candle Power: 1820  
 Beam Distribution: Wall Wash  
 Spacing Criterion: 0.83  
 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. G21080603  
 LM-79 Test No. S21081101

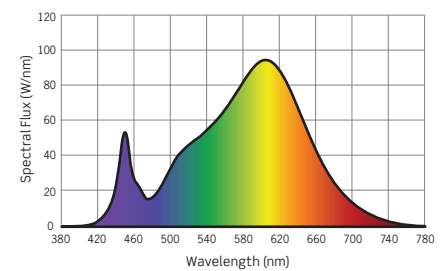
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	113.8	3.8
6 FT	50.6	5.7
8 FT	28.4	7.7
10 FT	18.2	9.6
12 FT	12.6	11.5
14 FT	9.3	13.4

### Candela Curve



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



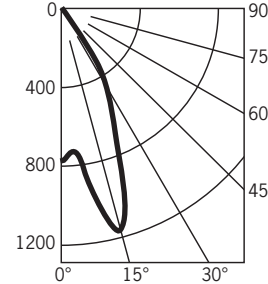
## CYL6630KMVDCXPB

Fixture Delivered Lumens: 291.2  
 Total Watts@120V: 42.0  
 Lumens Per Watt: 6.9  
 Center Beam Candle Power: 766  
 Beam Distribution: 9°  
 Spacing Criterion: 0.94  
 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. G21080901  
 LM-79 Test No. S21081101

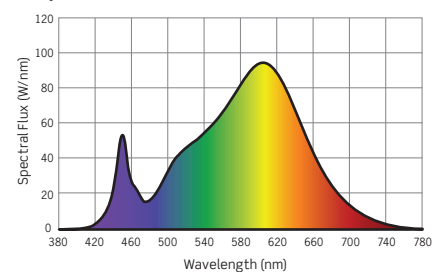
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	47.9	3.5
6 FT	21.3	5.3
8 FT	12.0	7.1
10 FT	7.7	8.8
12 FT	5.3	10.6
14 FT	3.9	12.4

### 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

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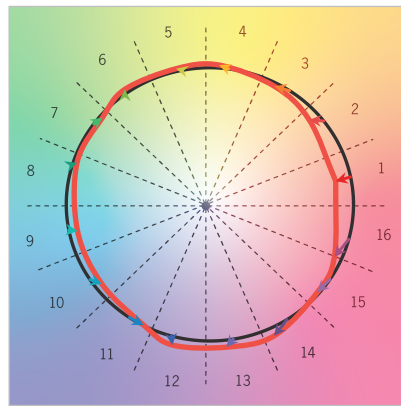
## TM-30 DATA: CYL630KMVDCMCLR

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

Colors are for visual orientation purposes only

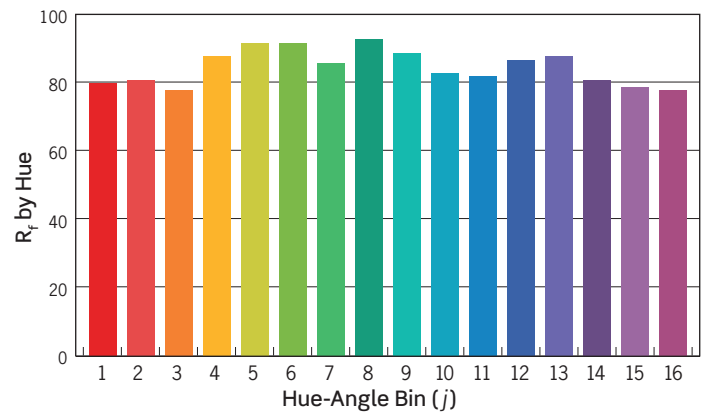
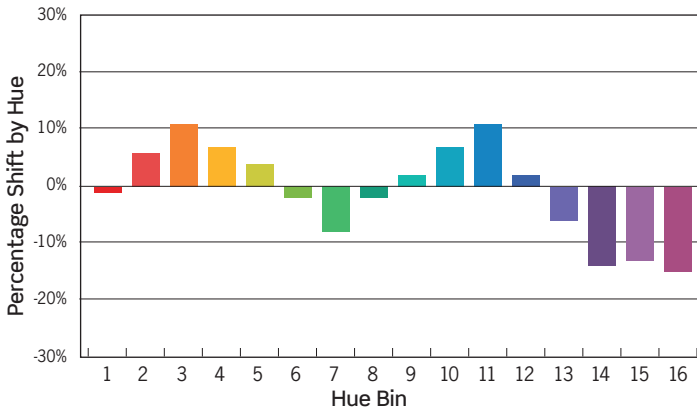
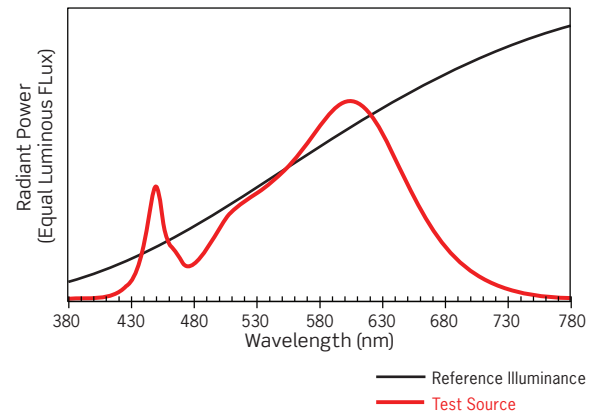
$R_f$	86
$R_g$	97
CCT(K)	3086K
$D_{uv}$	0.0017
$u^l$	0.2470
$v^l$	0.5220

Color Vector Graphic



— Reference Illuminance — Test Source

Spectral Power Distribution Comparison



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

# CYL6 SERIES | 6 Inch Indoor/Outdoor Round 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](http://www.lutron.com)
- Use DALI approved controls for dimming eldoLED MVD7 (1%-100%) and MVD9 (0.1%-100%) options.

Manufacturer	Product	Model	MVD	MVD6	MVD8
			Dimming Option	Dimming Option	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.