

DATE

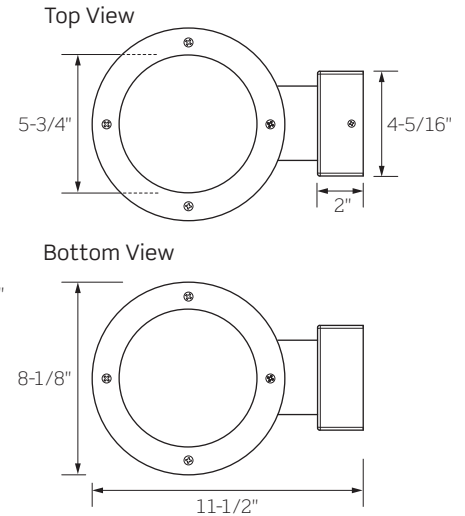
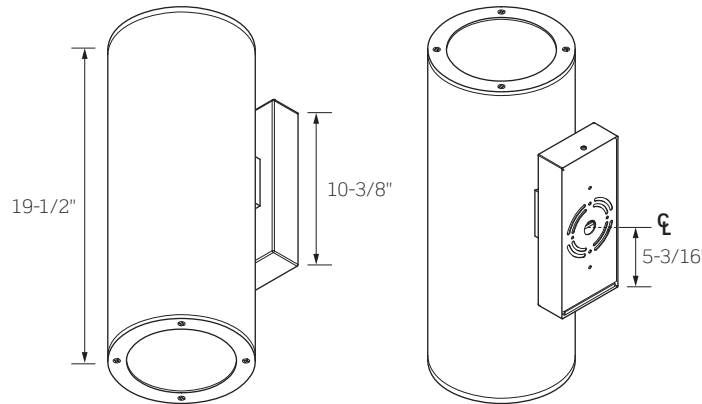
PROJECT

TYPE



CYL8 SERIES | 8 Inch Indoor/Outdoor Round Cylinders: Up/Down Wall Mount



Nominal Weight:
11 Lbs



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

	CYL81	CYL82	CYL83	CYL84	CYL85	CYL86																										
TOTAL LUMINAIRE WATTAGE	20W	28W	40W	56W	72W	86W																										
INDIVIDUAL ENGINE WATTAGE	10W	14W	20W	28W	36W	43W																										
TOTAL LUMINAIRE LUMEN OUTPUT ¹	2492Lm	3472Lm	4718Lm	6408Lm	7922Lm	8900Lm																										
INDIVIDUAL ENGINE LUMEN OUTPUT ¹	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/.17																										
INPUT VOLTAGE/DIMMING TYPE	<table border="0"> <tr> <td>Std Driver (TRIAC, ELV, 0-10V)</td> <td colspan="5">120VAC/277VAC, 50/60Hz</td> </tr> <tr> <td>Lutron HiLume® Driver</td> <td colspan="4">120VAC, 50/60Hz</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="5">120VAC/277VAC, 50/60Hz</td> </tr> </table>						Std Driver (TRIAC, ELV, 0-10V)	120VAC/277VAC, 50/60Hz					Lutron HiLume® Driver	120VAC, 50/60Hz				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 Eco-System® Driver	120VAC/277VAC, 50/60Hz				N/A	N/A																										
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DIMMING RANGE	<table border="0"> <tr> <td>Std Driver (TRIAC, ELV, 0-10V)</td> <td colspan="5">10-100%</td> </tr> <tr> <td>Lutron HiLume® Driver</td> <td colspan="5">1-100%</td> </tr> <tr> <td>Lutron Eco-System® Driver</td> <td colspan="5">1-100%</td> </tr> <tr> <td>eldoLED ECOdrive/SOLOdrive</td> <td colspan="5">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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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

CYL8 SERIES | 8 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: CYL8127KMVD4UDNCLR - B -

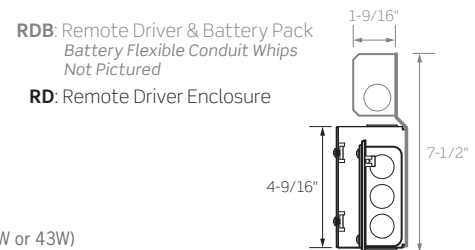
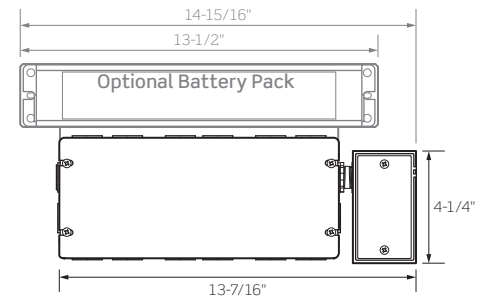
Light Engine ¹	Color Temp/CRI	Driver/Dimming	Mounting	Mntg Location	Reflector/Optic
CYL81 - 20W 2492lm	83 (80min) CRI 27K - 2700K	MVD - 120V-277V TRIAC/ELV/0-10V Dimming	UD - Up / Down Wall Mount	- Interior Dry/Damp Locations, Leave Blank	NCLR - 34° Narrow, Clear Alzak
CYL82 - 28W 3472lm	30K - 3000K	34D2 - 347V 0-10V Dimming			MCLR - 66° Medium, Clear Alzak
CYL83 - 40W 4718lm	35K - 3500K	12D3² - Lutron Hi-lume 1% 2-Wire LED Driver (120V Forward Phase Only)		X - Exterior Wet Locations	WCLR - 75° Wide, Clear Alzak
CYL84 - 56W 6408lm	90+ CRI 27KC - 2700K	MVD4² - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black			PL - 69° Platinum
CYL85 - 72W 7922lm	30KC - 3000K	MVD6 - eldoLED ECOdrive 0-10V, 1% Dimming			WW³ - Wall Wash
CYL86 - 86W 8900lm	35KC - 3500K	MVD7 - eldoLED ECOdrive DALI, 1% Dimming			PB^{3,4} - Pencil Beam
	40KC - 4000K	MVD8 - eldoLed SOLOdrive 0-10V, 0.1% Dimming			
		MVD9 - eldoLED SOLOdrive DALI, 0.1% Dimming			
		MDMX - eldoLED POWERdrive DMX <1% Dimming			

Finish

- B** - Matte Black
- BZ** - Satin Bronze
- P** - Matte White
- S** - Matte Silver
- CC⁵** - Custom Color

Battery and Remote Enclosure^{6,7,8}

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



- Wattage/Lumen options listed are for a Single Light Engine
- Lutron Dimming Options are available for Series 1 through 4 Luminaires only (20W through 56W); not available for use with Series 5 or 6 Luminaires (72W or 86W)
- Wall Wash (WW) and Pencil Beam (PB) limited to Series 4 and lower Luminaires (28W and lower Individual Light Engine)
- Pencil Beam (PB) Optic limited to Exterior Mount (X Mounting option) locations
- Custom finish colors available; consult factory for pricing, minimum order quantities and lead time
- RD and RDB Options must be installed in Dry/Damp Locations
- 90 Minute Battery Backup option powers only the Down Light Engine; consult factory for alternate options
- RDB and RD Options cannot be used with Lutron Hi-lume Dimming (12D3/MVD4 Options) in Series 5 or 6 Luminaires (36W or 43W)

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	Up to 36W (CYL65)	MVD9 eldoLED SOLOdrive DALI	Up to 36W (CYL65)
12D3⁵ 120V Lutron Hi-lume 1% 2-Wire	Up to 28W (CYL64)	MVD7 eldoLED ECOdrive DALI	Up to 36W (CYL65)	MDMX eldoLED POWERdrive DMX	N/A
MVD4⁵ Lutron Hi-lume 1% EcoSystem	Up to 28W (CYL64)	MVD8 eldoLED SOLOdrive 0-10V	Up to 36W (CYL65)	34D2 347V 0-10V	Any Wattage

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CYL8 SERIES | 8 Inch Indoor/Outdoor Round Cylinders: Up/Down Wall Mount

PRODUCT DETAILS

Construction

- Specification Grade 8 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 34° Narrow, 66° Medium and 75° Wide beam distributions
- Platinum Reflector is available in a 69° 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

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TYPE

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

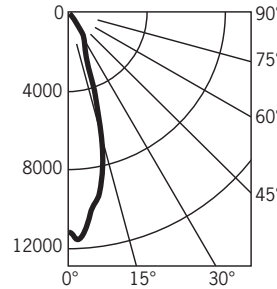
CYL8630KMVDCNCLR

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)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21080903
 LM-79 Test No. S21081102

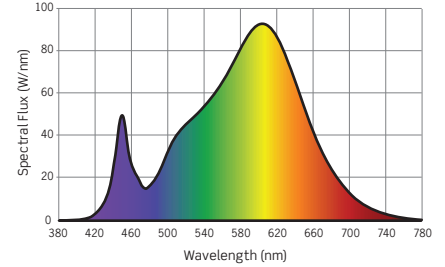
Intensity Distribution

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 Chart⁴



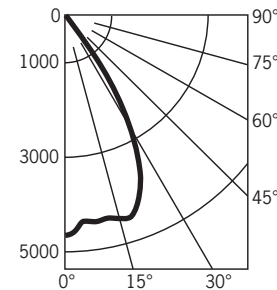
CYL8630KMVDCMCLR

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)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21080902
 LM-79 Test No. S21081102

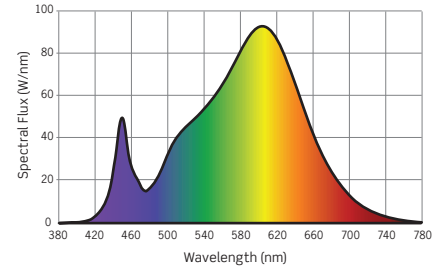
Intensity Distribution

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 Chart⁴



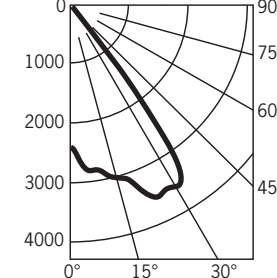
CYL8630KMVDCWCLR

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)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21080904
 LM-79 Test No. S21081102

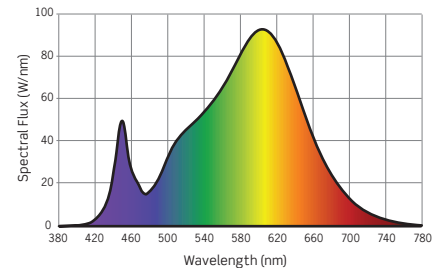
Intensity Distribution

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 Chart⁴



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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PROJECT

TYPE

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

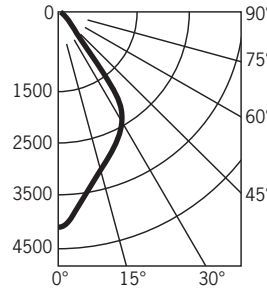
CYL8630KMVDCPL

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)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21080905
 LM-79 Test No. S21081102

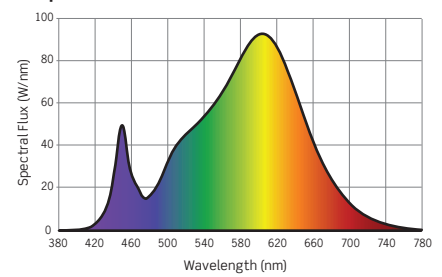
Intensity Distribution

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 Chart⁴



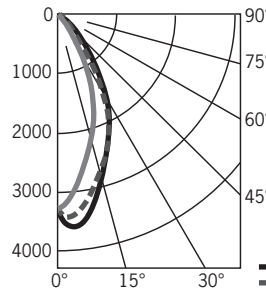
CYL8630KMVDCWW

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)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21081001
 LM-79 Test No. S21081102

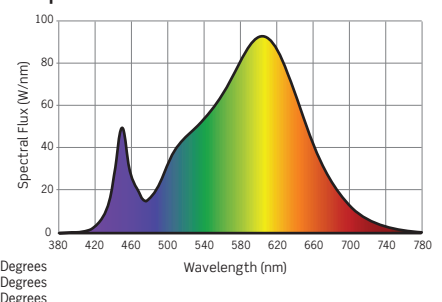
Intensity Distribution

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 Chart⁴



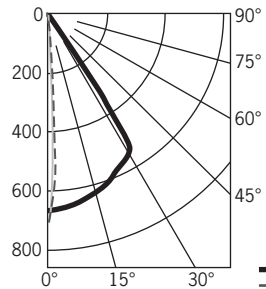
CYL8630KMVDCXPB

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)¹: 83.3
 Color Temperature (CCT)²: 3079K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G22021601
 LM-79 Test No. S21081102

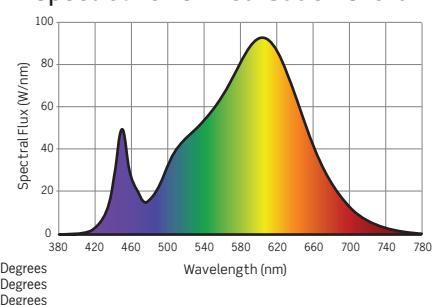
Intensity Distribution

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 Chart⁴



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

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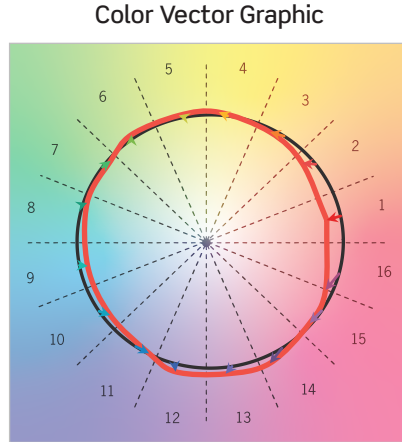
CYL8 SERIES | 8 Inch Indoor/Outdoor Round Cylinders: Photometrics

TM-30 DATA: CYL8630KMVDCMLR

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

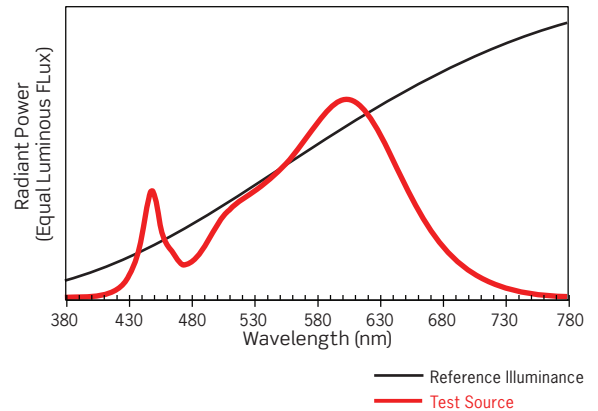
Colors are for visual orientation purposes only

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

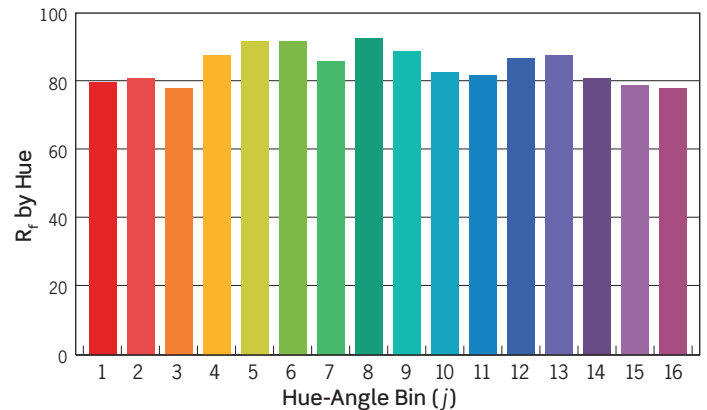
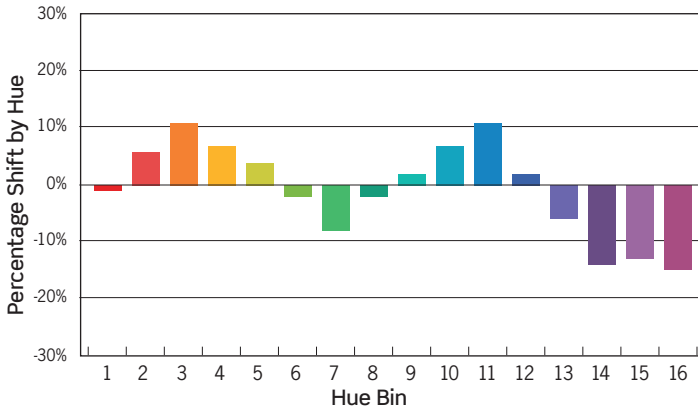


— Reference Illuminance — Test Source

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_f VALUE	81	82	79	89	93	93	87	94	90	84	83	88	89	82	80	80

CYL8 SERIES | 8 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
- 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.