

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



Nominal Weight:
8 Lbs



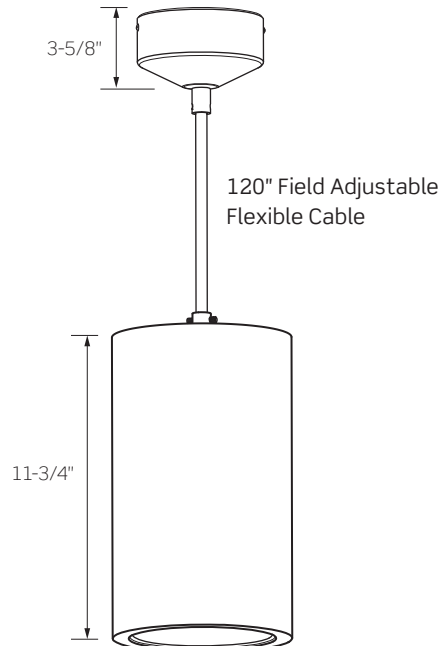
cCSAus
Listed



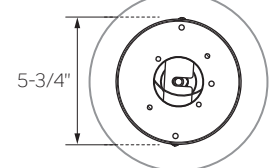
Damp
Location



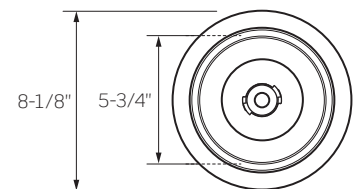
E-STAR®
Certified



Top View



Bottom View



	CYL81	CYL82	CYL83	CYL84	CYL85	CYL86
WATTAGE	10W	14W	20W	28W	36W	43W
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					
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	Standard Driver (Phase/0-10V) 120VAC/277VAC/347VAC, 50/60Hz					
Lutron Eco-System® Driver	120VAC/277VAC, 50/60Hz				N/A	N/A
eldoLED ECOdrive/SOLOdrive	120VAC/277VAC, 50/60Hz					
DIMMING RANGE	Standard Driver (Phase/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%					
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

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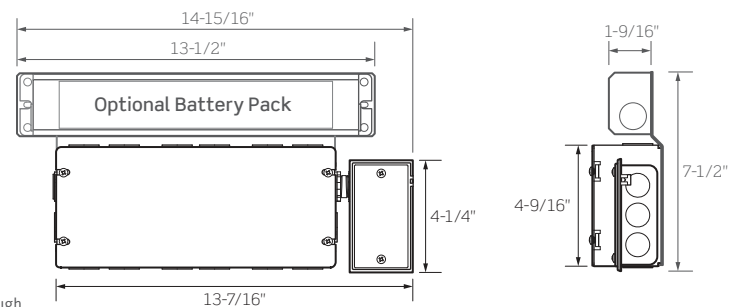
ORDERING INFORMATION

Example Order: CYL8127KMVD4CXNCLR-BZ

Cylinder	CCT/CRI	Driver/Dimming	Mounting	Reflector	Finish
CYL81 10W/1246lm CYL82 14W/1736lm CYL83 20W/2359lm CYL84 28W/3204lm CYL85 36W/3961lm CYL86 43W/4450lm	<i>83 (80min) CRI</i> 27K 2700K 30K 3000K 35K 3500K 40K 4000K <i>90 CRI</i> 27KC 2700K 30KC 3000K 35KC 3500K 40KC 4000K	<i>Driver Availability Matrix Below</i> MVD 120V-277V Forward/Reverse Phase / 0-10V Dimming 34D2 347V 0-10V Dimming MVD4² Lutron Hi-lume 1% EcoSystem 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	FC Flexible Cable Canopy Mount	Clear Alzak NCLR 34° Narrow MCLR 66° Medium WCLR 75° Wide PL 69° Platinum WW Wall Wash	B Matte Black BZ Satin Bronze P Matte White S Matte Silver CC³ Custom Color

Battery and Remote Enclosure⁴

None, Leave Blank
RDB⁵ Remote Driver & Battery Pack
RD⁵ Remote Driver Enclosure



- Lutron Dimming Option MVD4 Hi-lume 1% EcoSystem LED Driver is available for CYL81 through CYL84 luminaires only (10W through 28W); not available for use with CYL85 or CYL86 (36W or 43W) Luminaires
- Custom finish colors available; consult factory for pricing, minimum order quantities and lead time
- For Wet Location Cylinders ordered with RD/RDB Remote Enclosures, the RD/RDB Enclosure **must** be mounted in Dry/Damp Locations
- RDB and RD Options cannot be used with Lutron Hi-lume Dimming (MVD4 Option) in CYL85 or CYL86 (36W or 43W) Luminaires

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

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/Dimming	Max Wattage	Driver/Dimming	Max Wattage
MVD: 120V-277V Forward/Reverse Phase	Any Wattage	MVD8: eldoLED SOLODrive 0-10V	Up to 36W / CYL85
MVD4²: Lutron Hi-lume 1% EcoSystem	Up to 28W / CYL84	MVD9: eldoLED SOLODrive DALI	Up to 36W / CYL85
MVD6: eldoLED ECOdrive 0-10V	Up to 36W / CYL85	MDMX: eldoLED POWERdrive DMX	N/A
MVD7: eldoLED ECOdrive DALI	Up to 36W / CYL85	34D2: 347V 0-10V	Any Wattage

BUG RATINGS

Not valid for Wall Mount (W) when oriented as an Uplight

	REFLECTOR					
	NARROW	MEDIUM	WIDE	PLATINUM	WALL WASH ⁷	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

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

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

PRODUCT SPECIFICATIONS

CONSTRUCTION

- Specification Grade 8-inch diameter aluminum housing; suitable for Dry/Damp (indoor) location types
- 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

- Select from 2700K, 3000K, 3500K and 4000K Color Temperatures; 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
- CYL8 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, see below

DIMMING SPECIFICATIONS

Manufacturer	Product	Model	MVD Dimming Option 120V-277V Phase 7/0-10V Dimming	MVD6 Dimming Option 120V-277V eldoLED ECOdrive 0-10V, 1% Dimming	MVD8 Dimming Option 120V-277V eldoLED SOLOdrive 0-10V, 0.1% Dimming
			Light Output	Light Output	Light Output
Leviton	IllumaTech	IPI06-1LZ	1%-100%	N/A	N/A
Leviton	SureSlide	6631-2	1%-100%	N/A	N/A
Leviton	Vizia	VPE06	9%-100%	N/A	N/A
Leviton	Trimatron	6683-IW	6%-100%	N/A	N/A
Leviton	Decora	6161	15%-100%	N/A	N/A
Leviton	SureSlide	6633-P	1%-100%	N/A	N/A
Leviton	IllumaTech	IPE04	6%-100%	N/A	N/A
Leviton	IllumaTech	IP710-DLX	N/A	1%-100%	0.1%-100%
Cooper	Devine	DLC03P	1%-100%	N/A	N/A
Cooper	Skye	SLC03P	0%-100%	N/A	N/A
Cooper	Decorator	DAL06P	0%-100%	N/A	N/A
Pass & Seymour	Titan	CD4FB-W	N/A	1%-100%	0.1%-100%
Synergy		ISD BC	N/A	1%-100%	0.1%-100%
Watt Stopper	Miro Decorator	DCLV1	N/A	1%-100%	0.1%-100%
Lutron	Ariadni	TGCL-153P	1%-100%	N/A	N/A
Lutron	Ariadni	TG-600P	13%-100%	N/A	N/A
Lutron	Diva	DVCL-153P	1%-100%	N/A	N/A
Lutron	Diva	DV600P	6%-100%	N/A	N/A
Lutron	Diva	DVELV303P	6%-100%	N/A	N/A
Lutron	Diva	DVTV	N/A	1%-100%	0.1%-100%
Lutron	Faendra	FAELV500	12%-100%	N/A	N/A
Lutron	Lumea	LG600P	8%-100%	N/A	N/A
Lutron	Maestro	MAELV600	16%-100%	N/A	N/A
Lutron	Nova	NFTV	N/A	1%-100%	0.1%-100%
Lutron	Nova T	NTFTV	N/A	1%-100%	0.1%-100%
Lutron	Skylark	S-603PG	5%-96%	N/A	N/A
Lutron	Skylark	S600P	5%-100%	N/A	N/A
Lutron	Skylark	SELV300P	10%-100%	N/A	N/A
Lutron	Skylark	CT103P	9%-100%	N/A	N/A

7. 277V Phase Dimming is not available

- Incandescent 120VAC Dimmers adjust the light with forward phase control, no neutral wire connection required
- Electronic Low Voltage 120VAC Dimmers adjust the light with reverse phase control, 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. Switching on/off is controlled with the Line Voltage Power Input (120V or 277V AC) to the Dimmer, Dimming Operation is controlled with the 0-10V DC Low Voltage Wiring Connection between the Dimmer and the Driver. The Control Signal runs on two (2) Low Voltage Control Wires - a violet and a pink (or gray).
- Lutron 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 options MVD7 (eldoLED ECOdrive) and MVD9 (eldoLED SOLOdrive)

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.

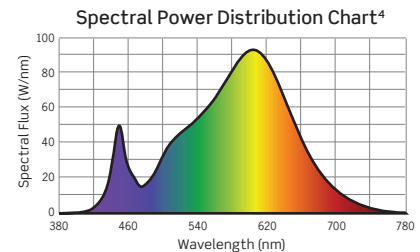
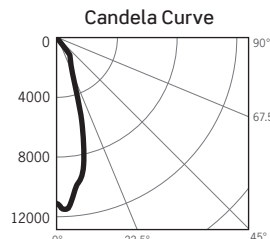
CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Photometry

CYL8630KMVDCNCLR: 3000K CLEAR NARROW

LM-63 Test No. G21080903; LM-79 Test No. S21081102

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

Intensity Distribution		
DISTANCE (FT.)	FOOT CANDLES (FC)	BEAM DIA. (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

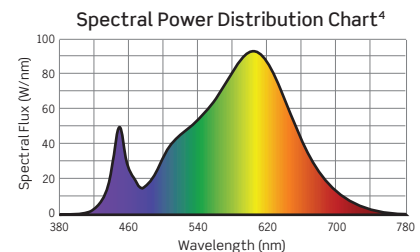
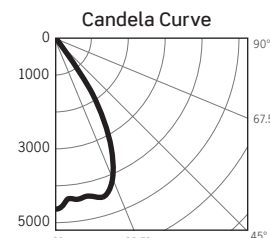


CYL8630KMVDCMCLR: 3000K CLEAR MEDIUM

LM-63 Test No. G21080902; LM-79 Test No. S21081102

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

Intensity Distribution		
DISTANCE (FT.)	FOOT CANDLES (FC)	BEAM DIA. (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

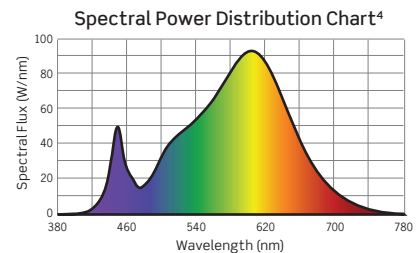
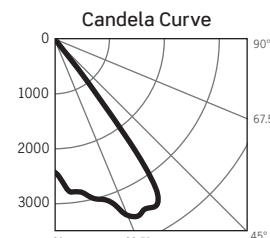


CYL8630KMVDCWCLR: 3000K CLEAR WIDE

LM-63 Test No. G21080904; LM-79 Test No. S21081102

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

Intensity Distribution		
DISTANCE (FT.)	FOOT CANDLES (FC)	BEAM DIA. (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



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 MULTIPLIERS		
CCT	STANDARD CRI	HIGH (90+) CRI
2700K	0.94	0.70
3000K	1.00	0.75
3500K	1.00	0.81
4000K	1.00	0.87

OUTPUT MULTIPLIERS				
10W SERIES 1	14W SERIES 2	20W SERIES 3	28W SERIES 4	36W SERIES 5
0.28	0.39	0.53	0.72	0.89

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

CYL8630KMVDCPL: 3000K MEDIUM PLATINUM

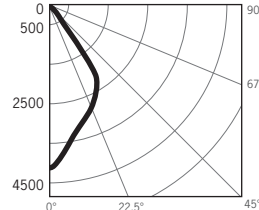
LM-63 Test No. G21080905; LM-79 Test No. S21081102

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

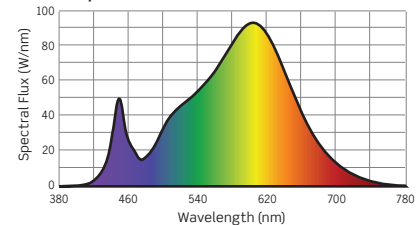
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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: 3000K WALL WASH

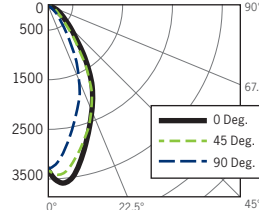
LM-63 Test No. G21081001; LM-79 Test No. S21081102

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

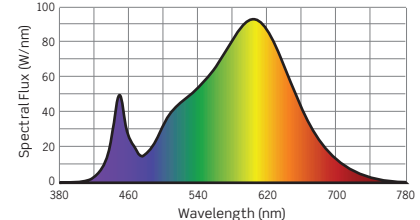
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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: 3000K PENCIL BEAM

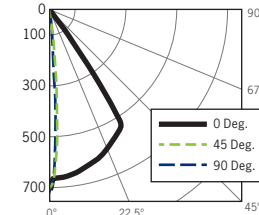
LM-63 Test No. G21080904; LM-79 Test No. S21081102

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

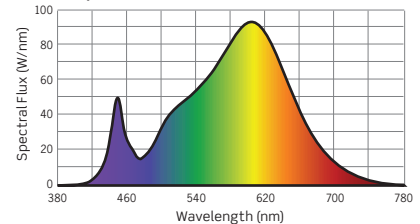
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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



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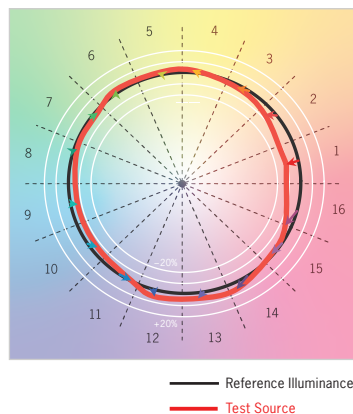
CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Photometry

TM-30 DATA for CYL8630KMVDCMLR: 3000K, CLEAR MEDIUM

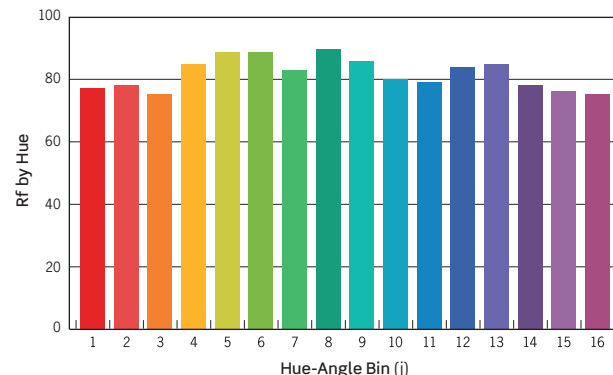
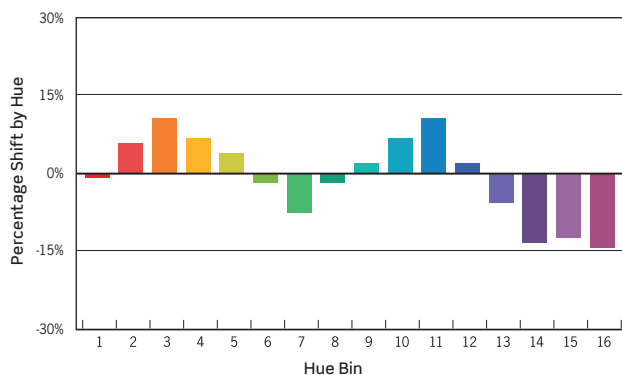
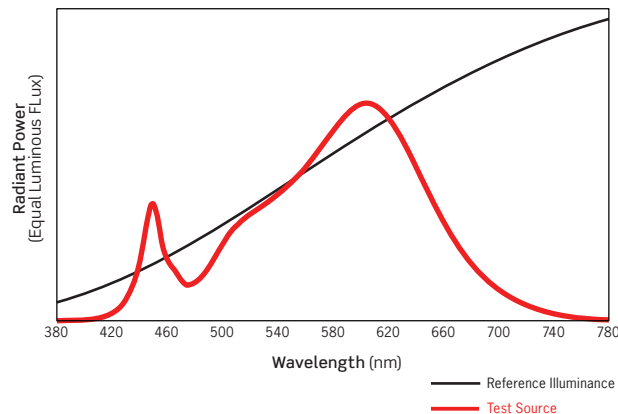
ANSI/IES TM-30-18 Color Rendition Report Test No. S21081102

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

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

Colors are for visual orientation purposes only