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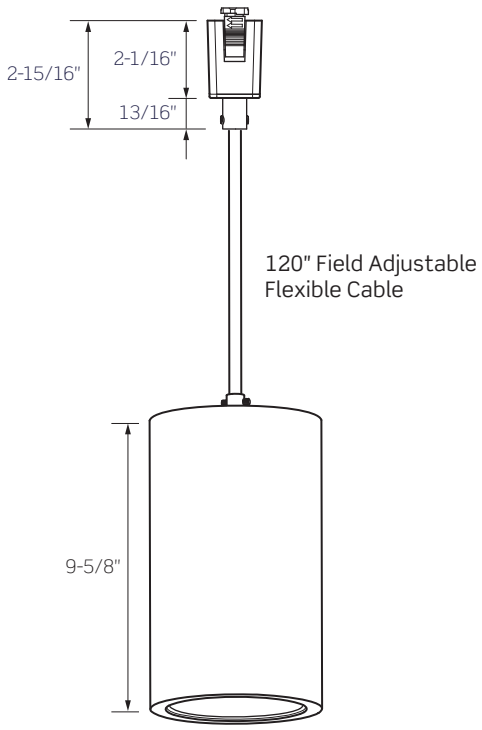
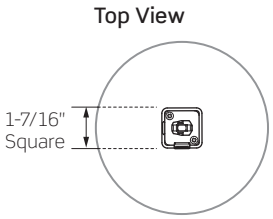
DATE PROJECT

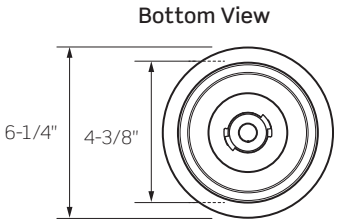
TYPE CATALOG NO.

CYL6 SERIES | 6-Inch Round Indoor Cylinders: Track Mount Flexible Cable Pendant

Nominal Weight:
6.0Lbs







cCSAus Listed | Damp Location | Wet Location | E-STAR® Certified

	CYL61	CYL62	CYL63	CYL64	CYL65	CYL66
WATTAGE	10W	14W	20W	28W	36W	43W
LUMEN OUTPUT[1]	1220Lm	1685Lm	2300Lm	3100Lm	3850Lm	4350Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K					
CRI	83 (80min) / 90+					
REFLECTOR BEAM	36° / 54° / 63° / 80° / 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	.12	.17	.23	.31	.36
INPUT VOLTAGE/DIMMIMG TYPE	120VAC/277VAC, 50/60Hz/Phase Dimming					
DIMMING RANGE	10–100%					
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; 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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TYPE CATALOG NO.

CYL6 SERIES | 6-Inch Round Indoor Cylinders: Track Mount Flexible Cable Pendant

ORDERING INFORMATION

Example Order: CYL6127KMVD4TFCNCLR-S

		12D1	TFC		—	
Cylinder	**CCT/CRI**	**Driver/Dimming**	**Mounting**	**Reflector**		**Finish**
CYL61 10W/1220lm **CYL62** 14W/1685lm **CYL63** 20W/2300lm **CYL64** 28W/3100lm **CYL65** 36W/3850lm **CYL66** 43W/4350lm	*83 (80min) CRI* **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K *90 CRI* **27KC** 2700K **30KC** 3000K **35KC** 3500K **40KC** 4000K	**12D1** 120V-277V Forward/Reverse Phase Dimming	**TFC** Flexible Cable Track Mount	*Clear Alzak* **NCLR** 36° Narrow **MCLR** 54° Medium **WCLR** 80° Wide **PL** 63° Platinum **WW** Wall Wash		**B** Matte Black **BZ**[2] Satin Bronze **P** Matte White **S** Matte Silver **CC**[4] Custom Color

2. Satin Bronze Finish (BZ) comes with Black Track Adapter
3. Custom finish colors available; consult factory for pricing, minimum order quantities and lead time

PRODUCT SPECIFICATIONS

CONSTRUCTION

- Specification Grade 6-inch diameter aluminum housing; suitable for Dry/Damp (indoor) location types
- 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 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
- 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
- CYL6 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, refer to Dimming Specification sheet

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

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TYPE CATALOG NO.

CYL6 SERIES | 6-Inch Round Indoor/Outdoor Cylinders: Dimming Specifications

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 input (120V or 277V AC) to the Dimmer and then 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 low voltage control wires (color coded violet and pink/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 option MVD7 (eldoLED ECOdrive, 1%–100%) and MVD9 (eldoLED SOLOdrive, 0.1%–100%) options.

			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
Manufacturer	**Product**	**Model**	**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	Faedra	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

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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CYL6 SERIES | 6-Inch Round Indoor/Outdoor Cylinders: Photometry

CYL6630KMVDCNCLR: 3000K CLEAR NARROW

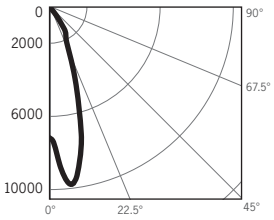
LM-63 Test No. G21080504; **LM-79 Test No.** S21081101

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)[1]: 83.6
Color Temperature (CCT)[2]: 3086K
Designed for 50,000 Hour Lamp Life[3]

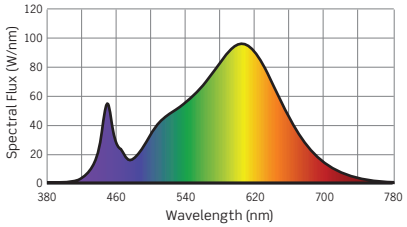
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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[4]



CYL6630KMVDCMCLR: 3000K CLEAR MEDIUM

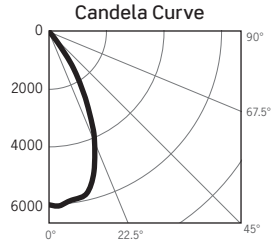
LM-63 Test No. G21080502; **LM-79 Test No.** S21081101

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)[1]: 83.6
Color Temperature (CCT)[2]: 3086K
Designed for 50,000 Hour Lamp Life[3]

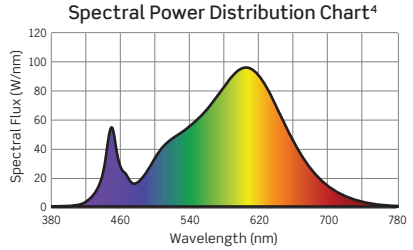
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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[4]



CYL6630KMVDCWCLR: 3000K CLEAR WIDE

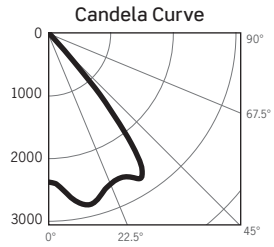
LM-63 Test No. G21080601; **LM-79 Test No.** S21081101

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)[1]: 83.6
Color Temperature (CCT)[2]: 3086K
Designed for 50,000 Hour Lamp Life[3]

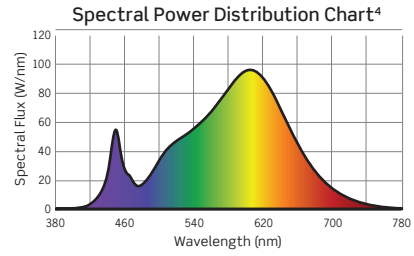
Intensity Distribution

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

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CYL6 SERIES | 6-Inch Round Indoor/Outdoor Cylinders: Photometry

CYL6630KMVDCPL: 3000K MEDIUM PLATINUM

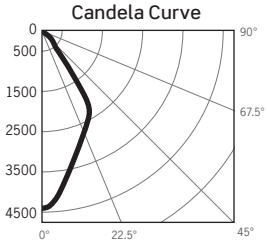
LM-63 Test No. G21080602; **LM-79 Test No.** S21081101

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)[1]: 83.6
Color Temperature (CCT)[2]: 3086K
Designed for 50,000 Hour Lamp Life[3]

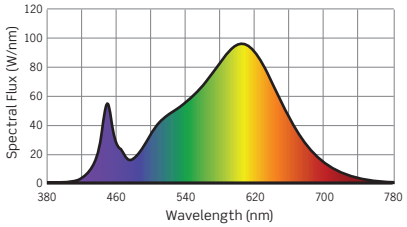
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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[4]



CYL6630KMVDCWW: 3000K WALL WASH

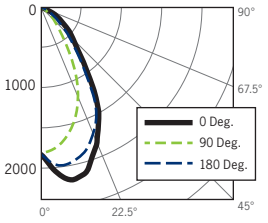
LM-63 Test No. G210806.3; **LM-79 Test No.** S21081101

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)[1]: 83.6
Color Temperature (CCT)[2]: 3086K
Designed for 50,000 Hour Lamp Life[3]

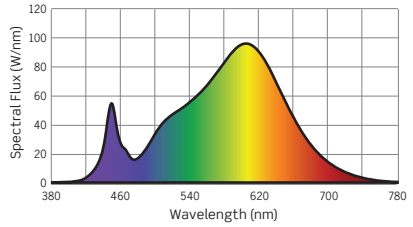
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (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[4]



CYL6630KMVDCXPB: 3000K PENCIL BEAM

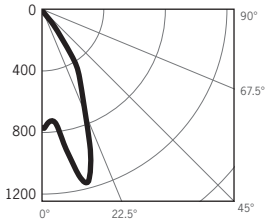
LM-63 Test No. G21080901; **LM-79 Test No.** S21081101

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)[1]: 83.6
Color Temperature (CCT)[2]: 3086K
Designed for 50,000 Hour Lamp Life[3]

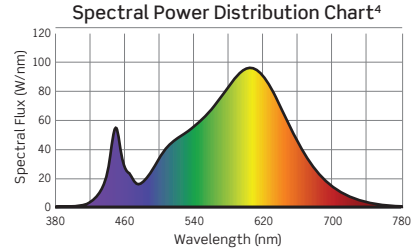
Intensity Distribution

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

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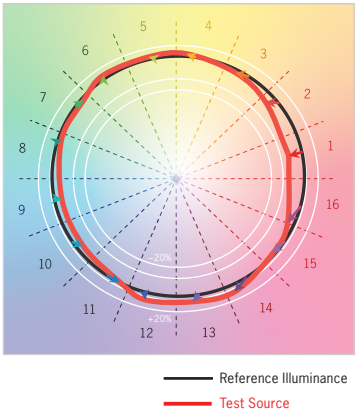
CYL6 SERIES | 6-Inch Round Indoor/Outdoor Cylinders: Photometry

TM-30 DATA for CYL6630KMVDCMCLR: 3000K, CLEAR MEDIUM

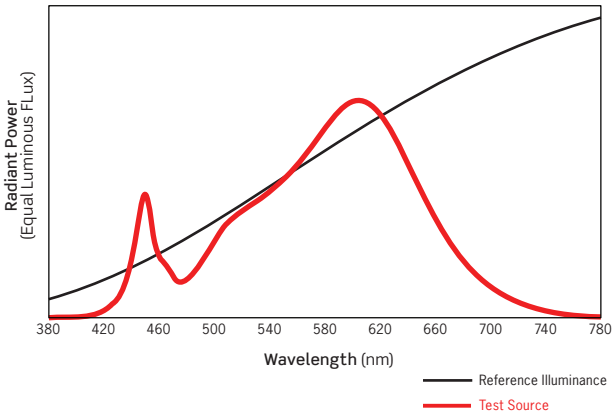
ANSI/IES TM-30-18 Color Rendition Report Test No. S21081101

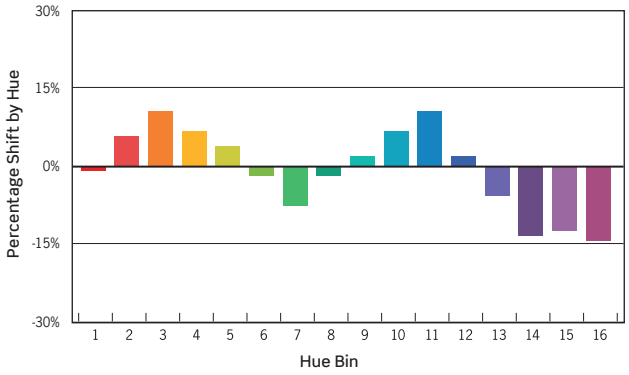
R_f	86
R_g	97
CCT(K)	3086K
D_{uv}	0.0017
u'	0.2470
v'	0.5220

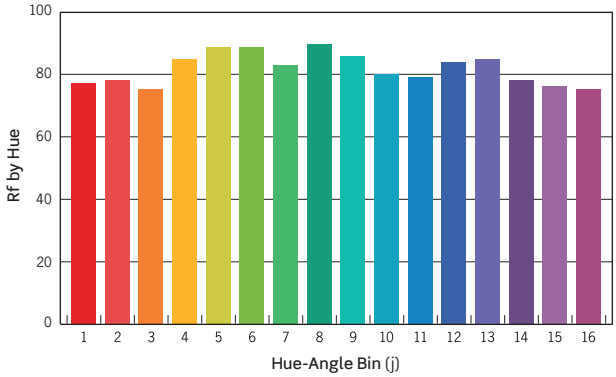
Color Vector Graphic



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

Colors are for visual orientation purposes only

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