



ConTech

DATE

PROJECT

TYPE

CATALOG NO.

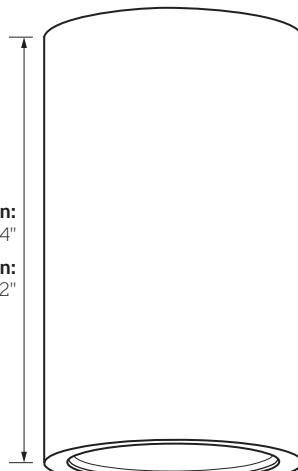
CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Ceiling Mount



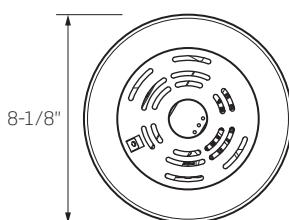
Nominal Weight:
7.0 Lbs

Dry/Damp Location:
11-3/4"

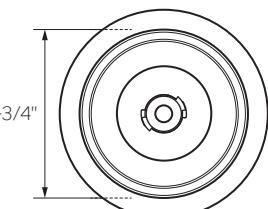
Wet Location:
12"



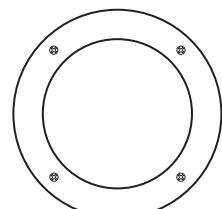
Top View: Indoor/Outdoor



Bottom View: Indoor



Bottom View: Outdoor



cCSAus Listed



Damp Location



Wet Location



E-STAR® Certified

	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 / 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						
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 or Wet locations Wet Location Models have a Silicone Sealed Clear Glass Lens in a Gasketed Die-Cast Trim Ring to ensure unit is watertight 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

CONTECH LIGHTING | 725 LANDWEHR ROAD | NORTHBROOK, ILLINOIS 60062 | PHONE 847.559.5500 | www.contechlighting.com

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REV1123

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

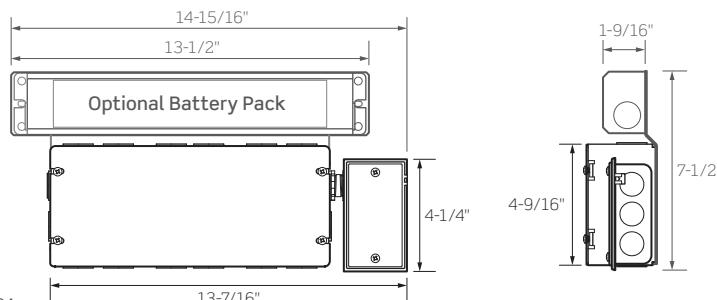
ORDERING INFORMATION

Example Order: CYL8127KMVD4CXNCLR-BZ

Cylinder	CCT/CRI	Driver/Dimming	Mounting	Mntg Location	Reflector
CYL81 10W/1246lm	83 (80min) CRI	MVD 120V-277V Forward/Reverse Phase / 0-10V Dimming	C Ceiling Mount	Leave Blank for Interior/Dry/Damp Locations	Clear Alzak
CYL82 14W/1736lm	27K 2700K	34D2 347V 0-10V Dimming		X Exterior/Wet Locations	NCLR 34° Narrow
CYL83 20W/2359lm	30K 3000K	MVD4 ² Lutron Hi-lume 1% EcoSystem Driver with Soft-on, Fade-to-Black			MCLR 66° Medium
CYL84 28W/3204lm	35K 3500K	MVD6 eldoLED ECOdrive 0-10V, 1% Dimming			WCLR 75° Wide
CYL85 36W/3961lm	40K 4000K	MVD7 eldoLED ECOdrive DALI, 1% Dimming			
CYL86 43W/4450lm	90 CRI	MVD8 eldoLED SOLOdrive 0-10V, 0.1% Dimming			PL 69° Platinum
	27KC 2700K	MVD9 eldoLED SOLOdrive DALI, 0.1% Dimming			WW Wall Wash
	30KC 3000K	MDMX eldoLED POWERdrive DMX <1% Dimming			PB ³ Pencil Beam
	35KC 3500K				
	40KC 4000K				

Finish
B Matte Black
BZ Satin Bronze
P Matte White
S Matte Silver
CC ⁴ Custom Color

Battery and Remote Enclosure ⁵
None, Leave Blank
RDB ⁶ Remote Driver & Battery Pack
RD ⁶ Remote Driver Enclosure



2. 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
3. Pencil Beam (PB) Optic limited to Exterior Mount ("X" Mounting option) locations
4. Custom finish colors available; consult factory for pricing, minimum order quantities and lead time
5. For Wet Location Cylinders ordered with RD/RDB Remote Enclosures, the RD/RDB Enclosure **must** be mounted in Dry/Damp Locations and the Cylinder Luminaire may be mounted in Wet Locations
6. 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
RD: Remote Driver Enclosure
Battery Flexible Conduit Whips Not Pictured

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	Any Wattage
MVD4 ² : Lutron Hi-lume 1% EcoSystem	Up to 28W / CYL84	MVD9: eldoLED SOLOdrive DALI	Any Wattage
MVD6: eldoLED ECOdrive 0-10V	Any Wattage	MDMX: eldoLED POWERdrive DMX	Any Wattage
MVD7: eldoLED ECOdrive DALI	Any Wattage	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/Outdoor Cylinders: Ceiling Mount

PRODUCT SPECIFICATIONS

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
- Hang Support/Tether for hands-free wiring

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

- 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	MVD6 Dimming Option	MVD8 Dimming Option
			120V-277V Phase ⁷ /0-10V Dimming	120V-277V eldoLED ECOdrive 0-10V, 1% Dimming	120V-277V eldoLED SOLOdrive 0-10V, 0.1% Dimming
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	IP04	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	DVT	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

- 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

- Testing was performed with a single fixture connected to dimmer.
- Testing has been performed on these dimmers, but this does not imply any warranty of compatibility.
- Dimming performance can be influenced by different loads, as well as variations in dimmer switches within the same model.
- Dimmer maximum load rating with LED may differ from published traditional source dimmer ratings. Consult manufacturer for maximum dimmer information.
- Consult factory for additional dimming information.



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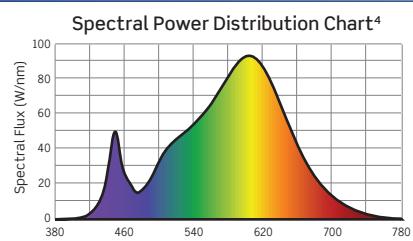
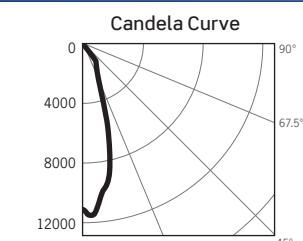
CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Photometry

CYL8630K MVDCNCLR: 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.)	FOOTCANDLES (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

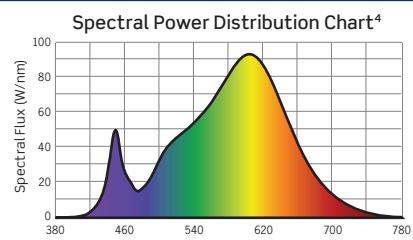
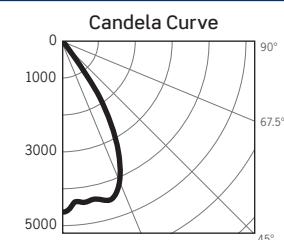


CYL8630K MVDCMCLR: 3000K CLEAR MEDIUM

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.)	FOOTCANDLES (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

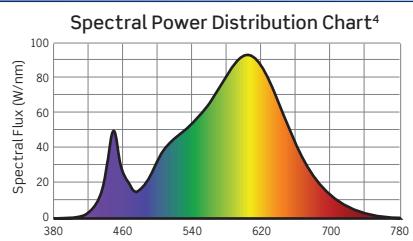
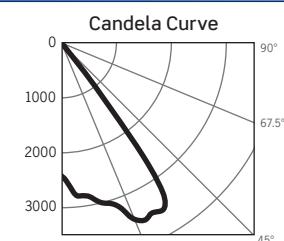


CYL8630K MVDCWCLR: 3000K CLEAR WIDE

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.)	FOOTCANDLES (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

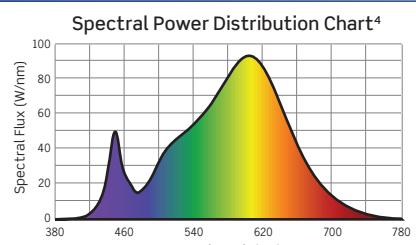
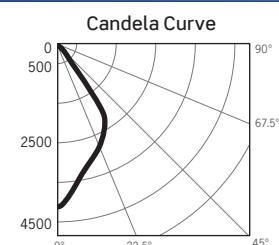
CYL8 SERIES | 8-Inch Round Indoor/Outdoor Cylinders: Photometry

CYL8630K MVDCPL: 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

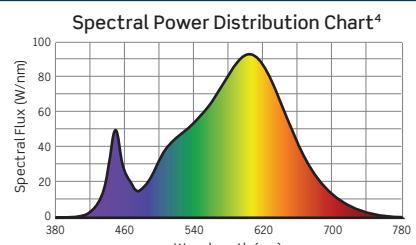
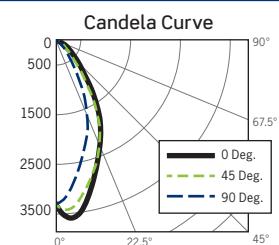


CYL8630K MVDCWW: 3000K WALL WASH

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

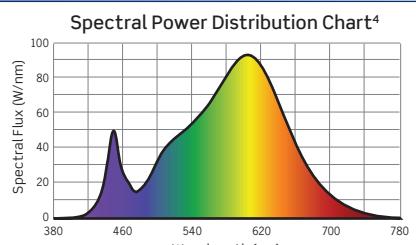
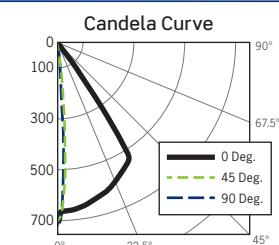


CYL8630K MVDCXPB: 3000K PENCIL BEAM

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



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

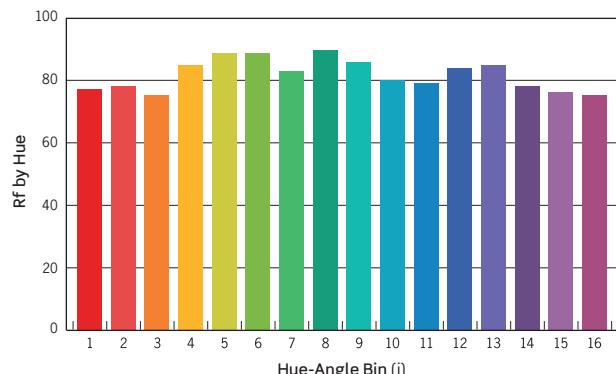
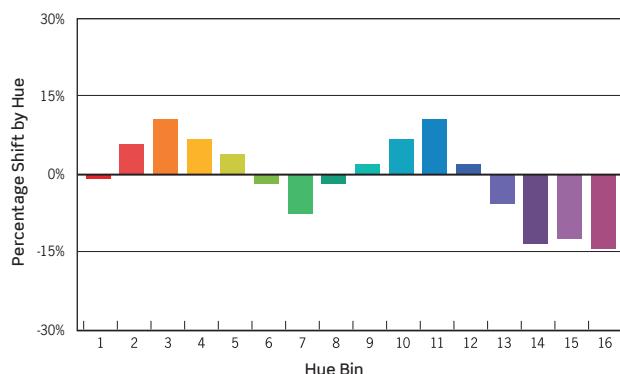
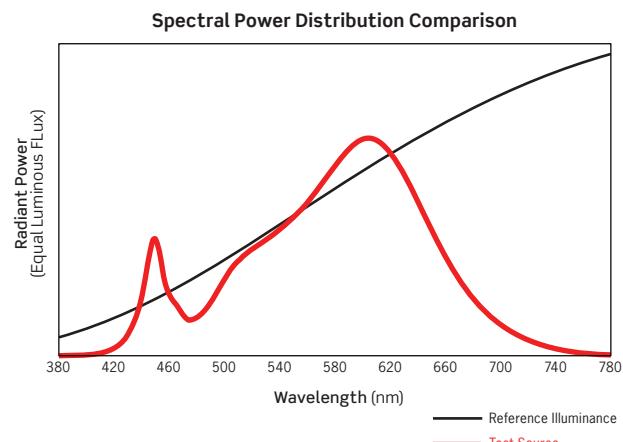
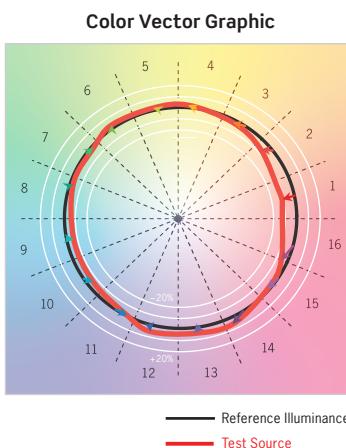
OUTPUT MULTIPLIERS				
10W SERIES 1	14W SERIES 2	20W SERIES 3	28W SERIES 4	36W SERIES 5
0.28	0.39	0.53	0.72	0.89

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

TM-30 DATA for CYL8630K MVDCMCLR: 3000K, CLEAR MEDIUM

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

R _f	86
R _g	96
CCT(K)	3079K
D _{uv}	0.0019
u ^I	0.2472
v ^I	0.5224



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

Colors are for visual orientation purposes only