

DATE

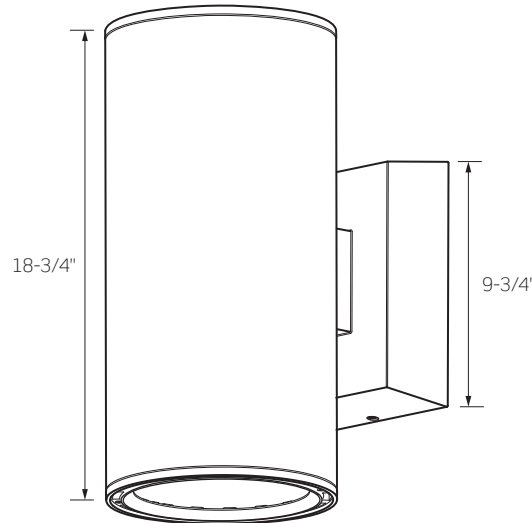
PROJECT

TYPE

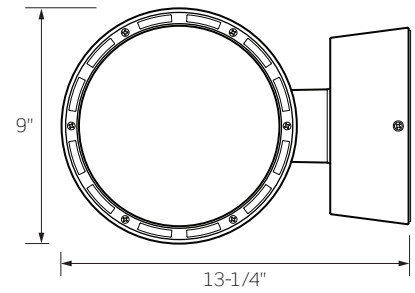
CY9 SERIES | 9 Inch Indoor/Outdoor Round Cylinders: Wall Mount



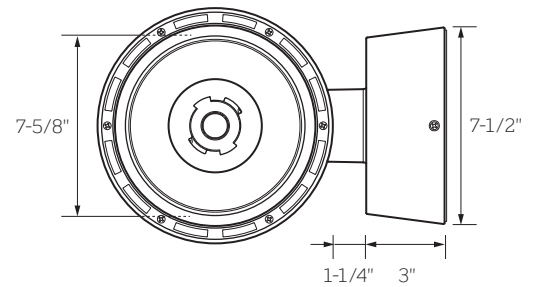
Wall Mount Luminaires may be installed in the Up or Down orientation




Top View: Indoor/Outdoor



Bottom View: Indoor/Outdoor



	CY91	CY92	CY93	CY94	CY95
WATTAGE	36W	48W	56W	70W	85W
LUMEN OUTPUT ¹	4000Lm	5000Lm	6000Lm	7000Lm	8300Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K				
CRI	83 (80min) / 90+				
REFLECTOR BEAM	22° Spot / 42° Narrow / 69° Medium / 77° Wide				
REFLECTOR FINISHES	Clear Alzak (Spot, Narrow Medium) / Platinum (Medium, Wide)				
LUMINAIRE FINISHES	Matte Black / Satin Bronze / Matte White / Matte Silver / Custom Colors Available				
DRIVER INPUT WATTAGE	36W	48W	56W	70W	85W
DRIVER INPUT VOLTAGE	120V – 277V Dimming, 50/60Hz				
DIMMING TYPE	120V – 277V TRIAC / ELV / 0–10V				
LISTINGS	cCSAus Certified; Suitable for Damp/Dry or Wet locations Cylinders must be installed per specific product installation instructions and all appropriate NEC Codes ENERGY STAR® Certified				
	  				
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: - -

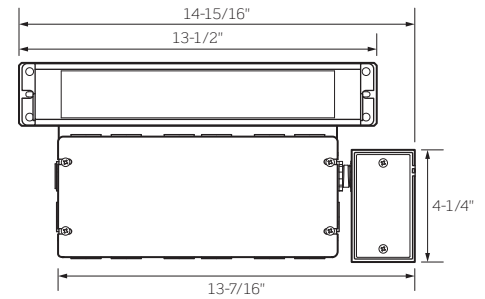
LED Series	Color Temp/CRI	Driver/Dimming	Mounting	Mntg Location	Reflector
CY91 - 36W / 4000lm	83 (80min) CRI	MVD - 120-277V	W¹ - Wall Mount	X¹ - Exterior Wet Locations	SCLR - 22° Spot Clear Alzak
CY92 - 48W / 5000lm	27K - 2700K	TRIAC/ELV/0-10V Dimming	<i>May be installed in the Up or Down orientation</i>		NCLR - 42° Narrow Clear Alzak
CY93 - 56W / 6000lm	30K - 3000K				MCLR - 69° Medium Clear Alzak
CY94 - 70W / 7000lm	35K - 3500K				MPL - 69° Medium Platinum
CY95 - 85W / 8300lm	40K - 4000K				WPL - 77° Wide Platinum
	90+ CRI				
	27KC - 2700K				
	30KC - 3000K				
	35KC - 3500K				
	40KC - 4000K				

Finish

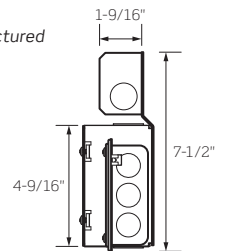
- B** - Matte Black
- BZ** - Satin Bronze
- P** - Matte White
- S** - Matte Silver
- CC²** - Custom Color

Battery and Remote Enclosure³

- None, Leave Blank
- RDB** - Remote Driver & Battery Pack for 36W and 48W Luminaires (LED Series 1 and Series 2)
- RDB12⁴** - 120V Only Remote Driver & Battery Pack for 56W, 70W and 85W Luminaires (LED Series 3, 4 and 5)
- RDB27⁴** - 277V Only Remote Driver & Battery Pack for 56W, 70W and 85W Luminaires (LED Series 3, 4 and 5)



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



1. Wall Mount Luminaire must be ordered for Exterior/Wet (X) Locations, regardless of mounting location
 2. Custom Color finishes available; consult factory for pricing, minimum order quantities and lead time
 3. RDB Options must be installed in Dry/Damp Locations
 4. RDB12 and RDB27 Enclosures may not be installed in contact with insulation;
 Units include an integrated Detector and will cause Luminaire to cycle on/off if above instruction is not followed

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PRODUCT DETAILS

Construction

- Specification Grade 9 inch diameter Aluminum Housing for indoor and outdoor applications
- Suitable for Dry/Damp (indoor) or Wet (outdoor) location types
- Bracket support for hands-free wiring
- May be installed in the Up or Down orientation

Performance Summary

- Clear Alzak Reflector is available in 22° Spot, 42° Narrow and 69° Medium beam distributions
- Platinum Reflector is available in a 69° Medium and 77° Wide beam distributions
- Optics have been optically engineered to provide a smooth uniform beam, maximizing output and minimizing glare
- 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
- CY9 Cylinders are available for non-dimming and dimming applications; for dimmer compatibility, refer to Dimming Specification sheet
- Assembled in the U.S.A.

DATE

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CY9 SERIES | 9 Inch Indoor/Outdoor Round Cylinders: Photometrics

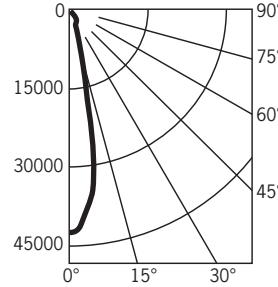
CY9530KMVDCSCLR

Fixture Delivered Lumens: 8497.9
 Total Watts@120V: 85.8
 Lumens Per Watt: 99.0
 Center Beam Candle Power: 42681
 Beam Distribution: 22.0°
 Spacing Criterion: 0.34
 Color Rendering Index (CRI)¹: 80.5
 Color Temperature (CCT)²: 3152K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G18102401
 LM-79 Test No. S18110103

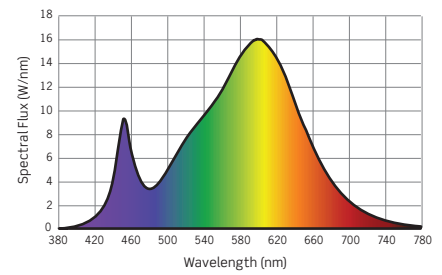
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	2667.6	1.6
6 FT	1185.6	2.3
8 FT	666.9	3.1
10 FT	426.8	3.9
12 FT	296.4	4.7
14 FT	218.8	5.4

Candela Curve



Spectral Power Distribution Chart⁴



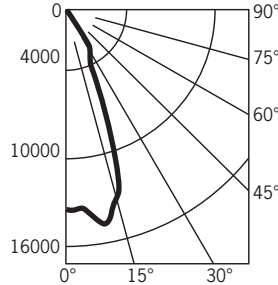
CY9530KMVDCNCLR

Fixture Delivered Lumens: 8089.1
 Total Watts@120V: 85.8
 Lumens Per Watt: 94.3
 Center Beam Candle Power: 13473
 Beam Distribution: 42.0°
 Spacing Criterion: 0.62
 Color Rendering Index (CRI)¹: 80.5
 Color Temperature (CCT)²: 3152K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G18102402
 LM-79 Test No. S18110103

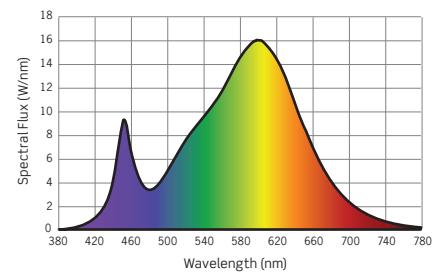
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	842.1	3.1
6 FT	374.2	4.6
8 FT	210.5	6.1
10 FT	134.7	7.7
12 FT	93.6	9.2
14 FT	68.7	10.8

Candela Curve



Spectral Power Distribution Chart⁴



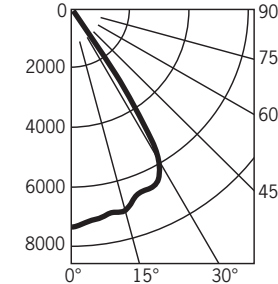
CY9530KMVDCMCLR

Fixture Delivered Lumens: 7928.6
 Total Watts@120V: 85.8
 Lumens Per Watt: 92.4
 Center Beam Candle Power: 7334
 Beam Distribution: 68.8°
 Spacing Criterion: 0.98
 Color Rendering Index (CRI)¹: 80.5
 Color Temperature (CCT)²: 3152K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G18102403
 LM-79 Test No. S18110103

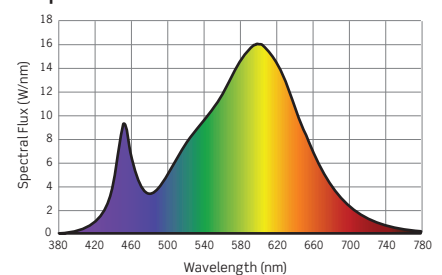
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	458.4	5.5
6 FT	203.7	8.2
8 FT	114.6	10.9
10 FT	73.3	13.7
12 FT	50.9	16.4
14 FT	37.4	19.1

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	36W/SERIES 1	48W/SERIES 2	56W/SERIES 3	70W/SERIES 4
2700K	0.95	0.74	0.47	0.61	0.70	0.86
3000K	N/A	0.85				
3500K	1.03	0.89				
4000K	1.07	0.92				

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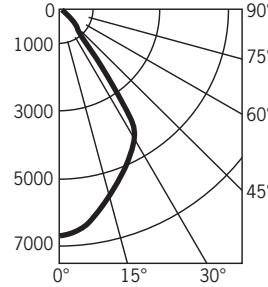
CY9530KMVDCMPL

Fixture Delivered Lumens: 7362.6
 Total Watts@120V: 85.8
 Lumens Per Watt: 85.8
 Center Beam Candle Power: 6671
 Beam Distribution: 68.8°
 Spacing Criterion: 0.99
 Color Rendering Index (CRI)¹: 80.6
 Color Temperature (CCT)²: 3162K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G18102404
 LM-79 Test No. S18110104

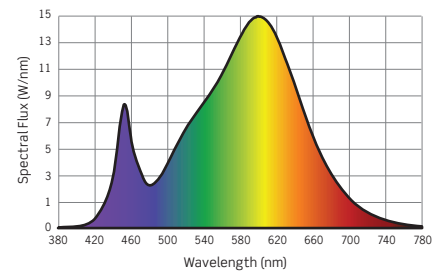
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	417.0	5.5
6 FT	185.3	8.2
8 FT	104.2	11.0
10 FT	66.7	13.7
12 FT	46.3	16.4
14 FT	34.0	19.2

Candela Curve



Spectral Power Distribution Chart⁴



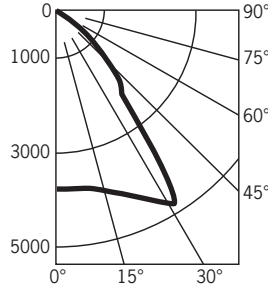
CY9530KMVDCWPL

Fixture Delivered Lumens: 8019.2
 Total Watts@120V: 85.8
 Lumens Per Watt: 93.5
 Center Beam Candle Power: 3757
 Beam Distribution: 77.0°
 Spacing Criterion: 1.22
 Color Rendering Index (CRI)¹: 80.6
 Color Temperature (CCT)²: 3162K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G18102405
 LM-79 Test No. S18110104

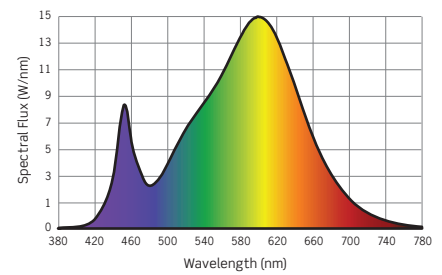
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	234.8	6.4
6 FT	104.4	9.5
8 FT	58.7	12.7
10 FT	37.6	15.9
12 FT	26.1	19.1
14 FT	19.2	22.3

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	36W/SERIES 1	48W/SERIES 2	56W/SERIES 3	70W/SERIES 4
2700K	0.95	0.74	0.47	0.61	0.70	0.86
3000K	N/A	0.85				
3500K	1.03	0.89				
4000K	1.07	0.92				

CY9 SERIES | 9 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 low voltage dimming wires that are separate from the 120V or 277V AC power. The Dimmer sends a variable output voltage to the fixture 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 LED Driver. The control signal runs on two low voltage control wires (color coded violet and pink/gray).
- 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

		MVD Dimming Option*
Manufacturer	Model	Light Output
Leviton	IPI06-1LZ	2% - 100%
Leviton	6631-2	1% - 100%
Leviton	VPE06	14% - 99%
Leviton	6673-10W	N/A
Leviton	6683-1W	9% - 98%
Leviton	VPI06	N/A
Leviton	6161	22% - 98%
Leviton	6633-P	3% - 98%
Leviton	IPE04	9% - 98%
Cooper	DLC03P	4% - 98%
Cooper	SLC03P	2% - 98%
Cooper	DAL06P	1% - 98%
Lightolier	ZP260QEW	11% - 98%
Lutron	S-603PG	7% - 99%
Lutron	DVCL-153P	4% - 99%
Lutron	DV600P	9% - 99%
Lutron	MAW600	N/A
Lutron	TGCL-153P	9% - 99%
Lutron	S600P	4% - 99%
Lutron	DVELV303P	10% - 99%
Lutron	SELV300P	11% - 98%
Lutron	TG-600P	19% - 98%
Lutron	GL-600P	N/A
Lutron	LG600P	9% - 98%
Lutron	CT103P	14% - 98%
Lutron	DV603P	N/A
Lutron	MAELV600	17% - 99%
Lutron	FAELV500	17% - 99%

*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.