aleo LIGHTING + CONTROLS

Project	
Type	Date
Cat. No.	

CYL™ Series

Architectural Cylinder Downlight

aleoblue



DESCRIPTION

The Aleo CYL™ Architectural Cylinder Downlight combines a sleek, compact form factor with exceptional installation flexibility. Designed for both surface and pendant stem mounting, CYL™ offers field-adjustable CCT, wattage, and beam angle selection for precise performance in a variety of architectural applications.

APPLICATIONS

Commercial, retail, education, hospitality, offices, lobbies and common areas, corridors, restaurants, retrofit / remodel, new construction

CYL™ SERIES

3”	5W / 10W / 15W
4”	10W / 20W / 25W
6”	20W / 30W / 40W

QUICK SHIP

CYL-3LE-UX/9CT WH	CYL-3LE-UX/9CT BLK
CYL-4HE-UX/9CT WH	CYL-4HE-UX/9CT BLK
CYL-6HE-UX/9CT WH	CYL-6HE-UX/9CT BLK

SPECIFICATION FEATURES

- **CONSTRUCTION**
  Die-cast aluminum housing with integral heat sink for thermal management and long service life. Minimalist round cylinder profile with clean sightlines. Suitable for dry and damp locations.
- **OPTICAL SYSTEM**
  Regressed optic for a low-glare aperture with UGR <22. High-quality COB LED with CRI 90 and R9 >50 for accurate color rendering. Polycarbonate (PC) lens provides a smooth, uniform beam with tight color consistency. Field-adjustable beam angle: 3″: 25°–80°, 4″: 30°–60°, 6″: 35°–60°. Efficacy up to 100 lm/W.
- **ELECTRICAL**
  Integrated Class 2 isolated LED driver with 120–277V AC, 50/60 Hz universal input. High power factor >0.9 and low THD <20%. Flicker-free operation (<30%) meets JA8 (CEC Title 24) low-flicker requirements. Includes 2.5 kV surge protection and low audible noise ≤24 dBA. Optional field-installed emergency battery backup provides 90 minutes of operation.
- **INSTALLATION / MOUNTING**
  Multiple mounting methods including surface ceiling mount, cord/SJT cable pendant, and linkable stem pendant. Mounts to recessed or surface junction boxes using the appropriate canopy accessory. Cord-pendant models include an 8′ cord and canopy cover for recessed junction box installation.
- **CONTROLS / DIMMING**
  Tri-mode dimming standard with 0–10V, forward-phase (TRIAC), and reverse-phase (ELV) dimming from 10–100%. AleoBlue™-ready with factory-installed AleoBlue™ wireless Bluetooth® control node available with the -WLC/BT suffix for gateway-free, wire-free networked lighting control (NLC). Compatible with a broad range of standard 0–10V, TRIAC, and ELV dimmers.
- **FIELD ADJUSTABLE OUTPUT (TRI-SELECT)**
  Wattage selectable via a top-side DIP switch with three lumen output options per fixture. CCT selectable between 2700K, 3000K, 3500K, 4000K, and 5000K. Field-adjustable beam angle.
- **CERTIFICATION**
  cETLus Listed to UL 1598. ENERGY STAR® certified (V1.0). California Title 24 compliant to JA8-2022. FCC Part 15 compliant: Class B at 120V and Class A at 277V. Damp-location listed.
- **WARRANTY**
  7-year Limited Warranty. See warranty documentation for more information.

ORDERING INFORMATION

EXAMPLE: CYL-6HE-UX/9CT BLK

CYL	6HE	UX	9	CT	BLK
Series	**Aperture / Output**	**Lumen Package**	**CRI**	**Color Temp**	**Finish**
CYL Architectural Cylinder Downlight	**3LE** - 3” **4HE** - 4” **6HE** - 6”	**UX** Field Adjustable Wattage	**9** CRI 90	**CT** Field Adjust. 2700K 4000K 3000K 5000K 3500K	**WH** White (RAL9003) **BLK** Black (RAL9011)

Options		
Controls	**Emergency Backup[1]**	**Mounting**
CYL-WLC/BT-xx AleoBlue™ Wireless Bluetooth Lighting Control Node (See Pg. 5 for Ordering Information)	**CYL-EM500-xx*** 500lm *xx: Mount type (SM or PM) (See Pg. 5 for Ordering Information)	Pendant Mount Regular Canopy comes standard with fixture. See Pg. 6 for additional Mounting Options ordering information

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PERFORMANCE SUMMARY

Input Voltage	120–277V AC
Input Frequency	50 / 60 Hz
Rated Wattage	See performance table
Delivered Lumens	See performance table
Efficacy	Up to 100 lm/W
Beam Angle	Field-adjustable (see optics)
Dimming	Tri-Mode 0–10V / TRIAC / ELV, 10–100%
Color Rendering (CRI)	90 (R9 >50)

Available CCT	2700K / 3000K / 3500K / 4000K / 5000K
Color Consistency	≤7-step MacAdam (SDCM)
Rated Life (L70)	≥50,000 hrs
Power Factor	>0.9
THD	<20%
Surge Protection	2.5 kV
Operating Temp.	–25°C to +40°C

PERFORMANCE DATA

	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
3”	CYL-3LE-UX/9CT	5	2700K	412	4.9	84.0
			3000K	440	4.8	91.6
			3500K	468	4.7	99.6
			4000K	483	4.7	102.7
			5000K	468	4.9	95.5
		10	2700K	806	9.7	83.1
			3000K	871	9.6	90.7
			3500K	917	9.3	98.6
			4000K	945	9.3	101.6
			5000K	927	9.8	94.6
		15	2700K	1,202	14.6	82.3
			3000K	1,284	14.3	89.8
			3500K	1,358	13.9	97.7
			4000K	1,398	13.9	100.6
			5000K	1,376	14.7	93.6

[1] IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

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PERFORMANCE DATA (CONT'D)

	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
4"	CYL-4HE-UX/9CT	10	2700K	973	10.0	97.3
			3000K	986	10.0	98.6
			3500K	1,009	9.9	101.9
			4000K	1,036	10.0	103.6
			5000K	1,062	10.0	106.2
		20	2700K	1,916	19.9	96.3
			3000K	1,952	20.0	97.6
			3500K	1,996	19.8	100.8
			4000K	2,042	19.9	102.6
			5000K	2,104	20.0	105.2
		25	2700K	2,373	24.9	95.3
			3000K	2,418	25.0	96.7
			3500K	2,465	24.7	99.8
			4000K	2,517	24.8	101.5
			5000K	2,603	25.0	104.1
6"	CYL-6HE-UX/9CT WH	20	2700K	1,858	19.7	94.3
			3000K	1,881	19.7	95.5
			3500K	1,921	19.8	97.0
			4000K	1,948	19.8	98.4
			5000K	2,004	19.9	100.7
		30	2700K	2,765	29.6	93.4
			3000K	2,800	29.6	94.6
			3500K	2,851	29.7	96.0
			4000K	2,893	29.7	97.4
			5000K	2,981	29.9	99.7
		40	2700K	3,645	39.4	92.5
			3000K	3,688	39.4	93.6
			3500K	3,756	39.5	95.1
			4000K	3,817	39.6	96.4
			5000K	3,928	39.8	98.7

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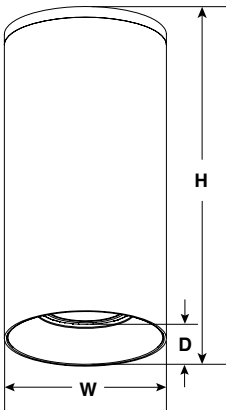
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OPTICS & PHOTOMETRIC

Parameter	3”	4”	6”
Field-Adjustable Beam	25°–80°	30°–60°	35°–60°
Nominal Beam (tested)	80°	60°	60°
Optical Design	Regressed	Regressed	Regressed
Glare (UGR)	<22	<22	<22
Zonal Lumen Density	≥75% (0–60°)	≥75% (0–60°)	≥75% (0–60°)
CRI / R9	90 / >50	90 / >50	90 / >50
Color Consistency	≤7 SDCM	≤7 SDCM	≤7 SDCM
Distribution	Directional downlight	Directional downlight	Directional downlight
LED Source	IP COB (single)	IP COB (single)	IP COB (single)

PRODUCT DIMENSIONS

Downlight Size	Model No.	H	W	D
3” Round	CYL-3LE-UX/9CT	8-1/2”	3-1/4”	7/8”
4” Round	CYL-4HE-UX/9CT	9”	4-1/2”	7/8”
6” Round	CYL-6HE-UX/9CT	10”	6”	1-9/16”

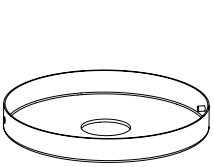


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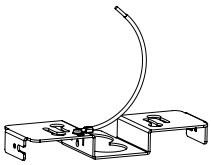
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PENDANT MOUNT SLIM CANOPY (INCLUDED WITH FIXTURE)

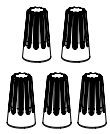
Pendant Mount Slim Canopy Kit - Recessed J-Box



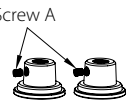
Slim Canopy



Mounting Bracket



P4 Wire Nuts (5)





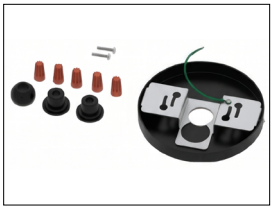
Stem Tube Fastener



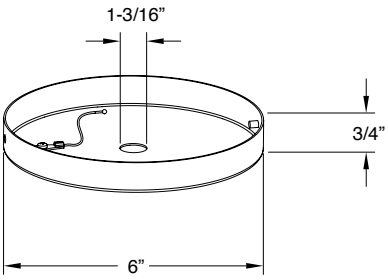
M3*8 Screw



8#-32 Screws (2)



Pendant Mount Slim Canopy Dimensions





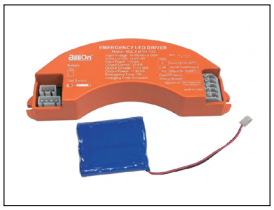
PRODUCT OPTIONS

SENSOR OPTIONS

Catalog No.	Description	Ordering	Shipping	Remote Control	Mounting
CYL-WLC/BT-SM	Wireless Bluetooth® Kit for Surface Mount	Order and Ship Separately	Field Install	AleoBlue App	Surface Mount
CYL-WLC/BT-PM	Wireless Bluetooth® Kit for Pendant Mount	Order and Ship Separately	Field Install	AleoBlue App	Pendant Mount

EMERGENCY BACKUP[1] OPTIONS

Catalog No.	Description	Ordering	Shipping
CYL-EM500-SM	500lm Emergency Kit for Surface Mount	Order and Ship Separately	Field Install
CYL-EM500-PM	500lm Emergency Kit for Pendant Mount	Order and Ship Separately	Field Install



[1] IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

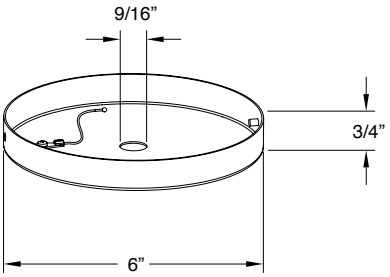
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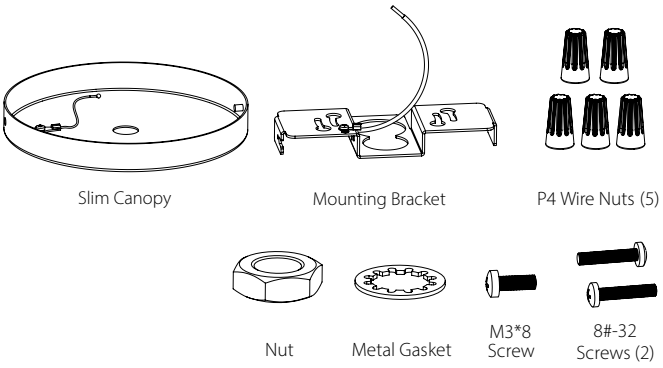
MOUNTING OPTIONS (NOT INCLUDED - MUST BE ORDERED SEPARATELY)

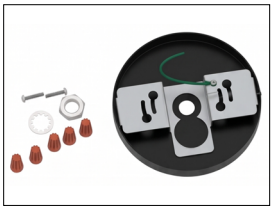
Catalog No.	Description	Fixture Mounting	J-Box Mounting	Canopy	Ordering	Shipping
CYL-SMK-RC-(WH/BLK)	Surface Mount Slim Canopy — for recessed J-box	Surface Mount	Recessed J-Box	Slim	Order and Ship Separately	Field Install

Canopy Dimensions



Surface Mount Slim Canopy Kit Contents- Recessed J-Box

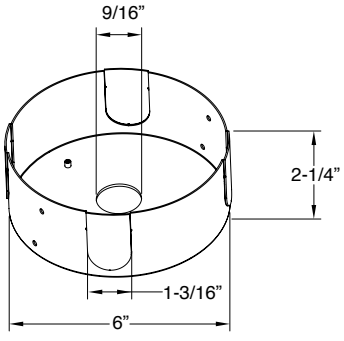




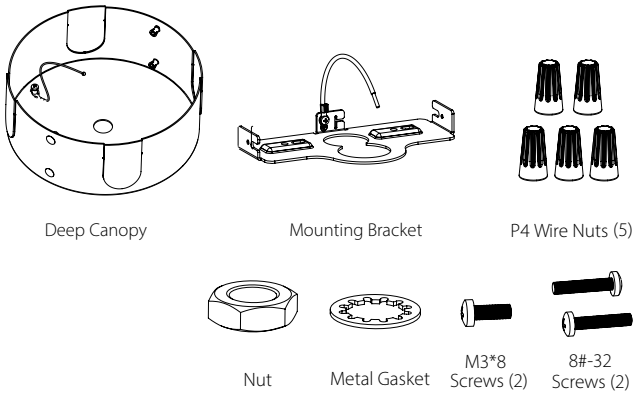
CYL-SMK-RC-BLK

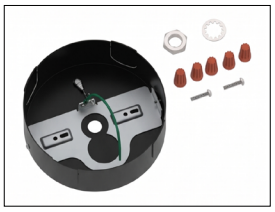
Catalog No.	Description	Fixture Mounting	J-Box Mounting	Canopy	Ordering	Shipping
CYL-SMK-SM-(WH/BLK)	Surface Mount Deep Canopy — for surface-mount J-box	Surface Mount	Surface Mount J-Box	Deep	Order and Ship Separately	Field Install

Canopy Dimensions



Surface Mount Deep Canopy Kit - Surface Mount J-Box





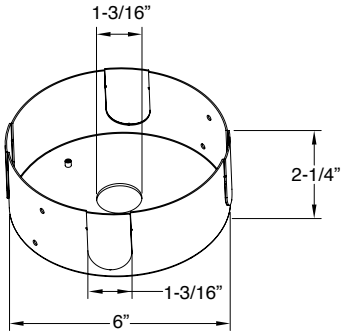
CYL-SMK-SM-BLK

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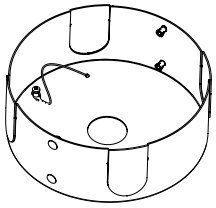
Catalog No.	Description	Fixture Mounting	J-Box Mounting	Canopy	Ordering	Shipping
CYL-PMK-SM-(WH/BLK)	Pendant Mount Deep Canopy Kit — for surface-mount J-box	Pendant Mount	Surface Mount J-Box	Deep	Order and Ship Separately	Field Install

Canopy Dimensions

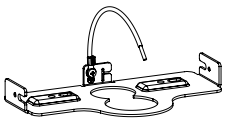


Pendant Mount Deep Canopy Kit - Surface Mount J-Box

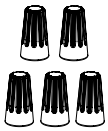
CYL-PMK-SM-xx



Deep Canopy

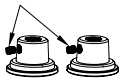


Mounting Bracket



P4 Wire Nuts (5)

Screw A



Bushing Strain Relief



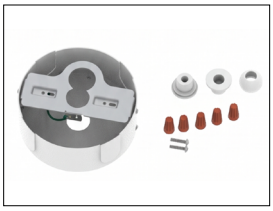
Stem Tube Fastener



M3*8 Screws (2)



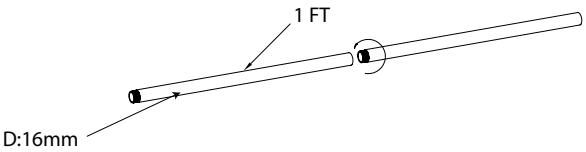
8#-32 Screws (2)

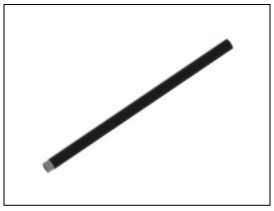


CYL-PMK-SM-WH

Catalog No.	Description	Ordering	Shipping
CYL-STEM-1FT-(WH/BLK)	1-ft Stem Kit, linkable (for stem/slope pendant mounting)	Order and Ship Separately	Field Install

Pendant Stem





CYL-STEM-1FT-BLK

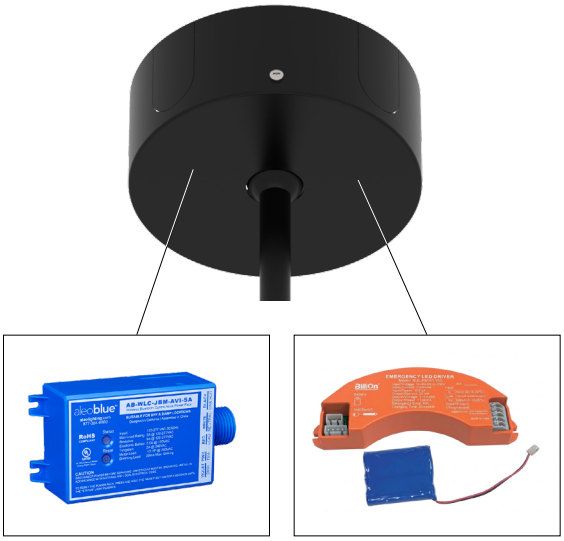
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COMPATIBLE DIMMERS

0–10V	Forward Phase (TRIAC)	Reverse Phase (ELV)
Leviton IP710-DLZ	Lutron CTCL-153P	Lutron DVELV-300P
Lithonia/Synergy ISD BC 120/277	Lutron DVCL-153P	Lutron NTELV-300
Cooper SF10P-W	Lutron S2-LH	Lutron SELV-300P
Hubbell PSD710 / RSD710Z	Legrand HCL453PTCCCV6	Hubbell RSDE06 / Insteon 2477D

INSTALLATION DIAGRAM



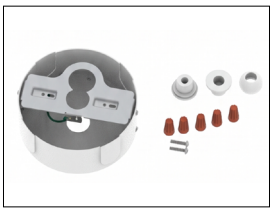
AB-WLC-JBM-AVI-5A

500lm Emergency Kit

Mount with bracket installed as shown:



CYL-SMK-SM-xx



CYL-PMK-SM-xx

NOTE: For Recessed J-Box Only. If used on surface mount J-Box, canopy will not cover J-Box.

aleoblue™

LOOKING FOR ADDITIONAL **ALEOBLUE CONTROL DEVICES?**

Enhance your lighting system with optional AleoBlue control devices designed to expand functionality and simplify installation. Click here or scan the QR code to view all currently available options.

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aleoblue™



ALEOBLUE WIRELESS BLUETOOTH® CONTROLS

DLC LISTED

The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth® NLC lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

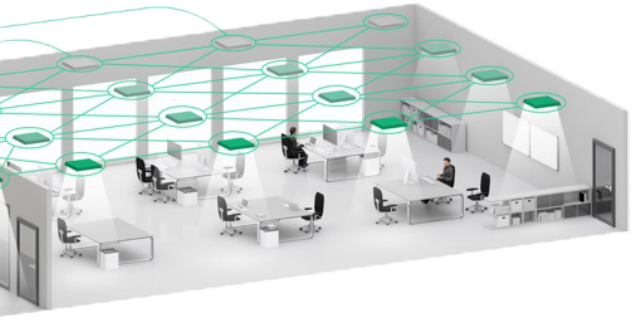
DLC NLC Qualified.

FEATURES AND BENEFITS

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- High-End Trim
- LLLC (Luminaire Level Lighting Controls)
- Energy Monitoring
- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility
- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertise required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

BLUETOOTH® NLC TECHNOLOGY ADVANTAGES

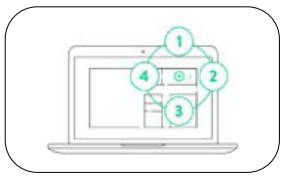
- The fastest low-power communication
- Scalability to thousands of devices
- The most advanced encryption standards as well as the cutting-edge device authentication
- No single point of failure (no central device)
- Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth® 4.0 and Bluetooth® 5)



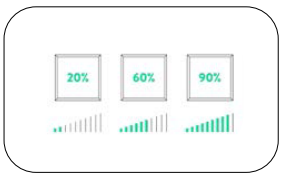
SCHEDULING



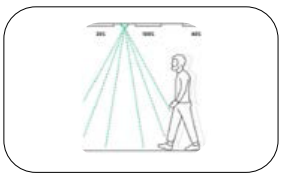
SCENES



HIGH / LOW END TRIM



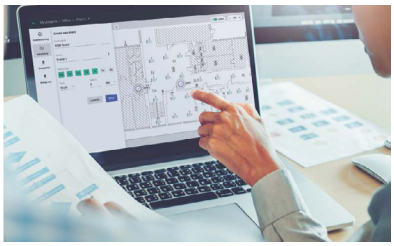
OCCUPANCY SENSING



PLANNING

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.

1. Import Floor Plans
2. Specify Desired Lighting Control Scenarios
3. Define Individual Lighting Zones



IMPLEMENTATION

Adding lighting devices to the Bluetooth® NLC network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.

1. Add Devices to Your Connected Lighting Network
2. Implement Predefined Zones and Scenarios
3. Optimize Configuration Settings if Needed

PROVISIONING / CONFIGURATIONS

The Bluetooth® NLC Node is in the Unprovisioned Mode until it is provisioned by a “Provisioner”, which typically is a smart phone with a Bluetooth® NLC compatible app.

Specifications and Dimensions subject to change without notice.

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