

Project		Catalog #		Type	
Prepared by		Notes		Date	



INVUE

LXB LuxeScape Bollard

Pathway Luminaire



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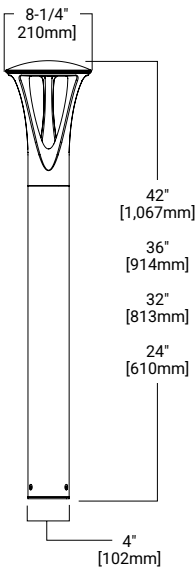
Product Certifications



Quick Facts

- Part of the Invue [LuxeScape](#) Collection
- Two piece cast aluminum housing and extruded aluminum shaft
- WaveStream™ LED optics create symmetric or asymmetric distributions
- Standard with 0-10V dimming and 10kV surge protection

Dimensional Details



Ordering Information

SAMPLE NUMBER: LXB-C3-740-42-U-S-GM

Product Family	Light Level	CRI / CCT	Nominal Height	Voltage	Distribution	Finish
LXB = LuxeScape Bollard BAA-LXB = LuxeScape Bollard, Buy American Act Compliant ¹ BABAF-LXB = LuxeScape Bollard, Build America Buy America Compliant ¹	C1 = Light Level 1 ² C2 = Light Level 2 C3 = Light Level 3	740 = 70CRI / 4000K 827 = 80CRI / 2700K ³ 830 = 80CRI / 3000K ³ 835 = 80CRI / 3500K 840 = 80CRI / 4000K AMB = Amber 590nm ^{3,4} NI = Non-illuminated ¹³	24 = 24" ^{2,5} 30 = 32" 36 = 36" 42 = 42"	U = 120-277V 1 = 120V 4 = 277V 8 = 480V ⁶ 9 = 347V	A = Asymmetric S = Symmetric	AP = Grey BZ = Bronze BK = Black DP = Dark Platinum GM = Graphite Metallic WH = White RAL = Custom Color ⁷

Options (Add as Suffix)	Accessories (Order Separately) ¹¹
DIM = Dimming Leads Brought Out from Fixture BPC = Button Photocell 20K = Series 20kV UL 1449 Surge Protective Device 10MSP = Parallel 10kV MOV Surge Protection Device 20MSP = Parallel 20kV MOV Surge Protection Device CBP = Cold Weather Emergency Battery Pack ^{8,9,10}	3816-03PK = Anchor Bolt Kit and Template ¹²

NOTES:

- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Not available with 480V or 347V.
- Dark sky friendly options include 3000K CCT and warmer.
- Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Light Level C1. When combined with (A)symmetric distribution, minimum operating temp is -30°C. See IES files for photometric performance.
- Must select either 10MSP or 20MSP when ordering 24" height.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- RAL and custom color matching available. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Must specify voltage, either 120V or 277V.
- CBP only available with 42" height. CBP not compatible with CRI/CCT AMB combined with Distribution A.
- Operates at -20°C to +40°C. 6W initial output. 16.2Wh capacity.
- For BAA and BABA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
- Contact your customer service representative at Cooper Lighting Solutions for advance shipping.
- Choose Light Level C1 and Voltage U.

Product Specifications

Construction

- TOP HOUSING: cast aluminum top for superior strength and thermal performance with an IP66 rating.
- SHAFT: 4" OD extruded aluminum with 0.188" thick wall. Fastens to base with stainless steel hardware.
- BASE: cast aluminum base mounts to foundation using three 3/8" diameter anchor bolts.
- IK09 impact rated housing

Optics

- Wavestream™ LED optical system employs waveguide technology to create uniform symmetric and asymmetric distributions
- The acrylic waveguide is precision manufactured for excellent light control and long life
- CCT options range from 2700K to 4000K and include turtle-safe 590nm narrow band amber

Electrical

- Power tray is designed for easy installation and maintenance of key electrical components: LED drivers, surge protectors, and backup battery
- Quick connector between power tray and fixture facilitates a quick install
- Standard with 10kV series surge module, optional surge modules available up to 20kV
- Optional cold-rated battery pack provides an initial 6 watts of battery backup in temperatures from -20°C to 40°C.
- When the non-illuminated option is selected, no electronic componentry is included

Controls

- The LuxeScape Bollard options are designed to be simple and cost effective ASHRAE and California Title 24 compliant solutions.
- Standard 0-10V dimming
- Optional button photocell is incorporated into the house-side of the housing behind a vandal-resistant glass lens

Mounting

- Anchor bolt kit, 3816-03PK, must be ordered separately and includes anchor bolts and installation template
- Luminaire mounts using three 3/8" anchor bolts in a 2-3/8" bolt circle
- Mounting base provides space to accommodate up to two 3/4" conduit entries underneath.

Finish

- Invue utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure.
- RAL and custom color matches available. Additional charges and lead time apply.
- Finish is compliant with ASTM B117 3000hr salt spray standard.

Shipping Data

- 42 inch model net weight: 21.4 lbs. (9.71 kgs.)

Compliance

- cULus wet location listed for use in -40°C to 40°C ambient environments unless otherwise noted.
- IP66 rated against dust and water ingress
- 1.5G vibration rated
- Dark sky friendly options include 3000K CCT and warmer
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- BAA domestic preference option meets BAA requirements. See [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information.

Typical Applications

- Outdoor, Walkway, Perimeter, Landscapes, Hardscapes
- Hospitality, medical, education, campus, parks

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Optical Performance

Power and Lumens

Light Level / Distribution	C1 Symmetric	C2 Symmetric	C3 Symmetric	C1 Asymmetric	C2 Asymmetric	C3 Asymmetric	C1 AMB Symmetric	C1 AMB Asymmetric
Nominal Power, 120-277V (Watts)	18	30	36	13	21	25	14.5	10
Input Current (mA) @ 120V	134	234	294	95	164	197	106	74
Input Current (mA) @ 208V	87	144	173	63	101	120	64	46
Input Current (mA) @ 240V	74	123	152	56	88	104	60	44
Input Current (mA) @ 277V	68	109	135	53	80	94	56	42
Nominal Power, 347V or 480V (Watts)	25	37	44	20	29	33	22	18
Input Current (mA) @ 347V	68	101	119	55	77	89	59	54
Input Current (mA) @ 480V	55	79	93	45	62	70	48	44

Optical Performance (GM finish)

740: 70 CRI / 4000K	Lumens	931	1579	1889	628	1072	1291	-	-
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B1-U0-G1	-	-
827: 80 CRI / 2700K	Lumens	740	1254	1500	499	851	1025	-	-
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B0-U0-G0	B0-U0-G1	B1-U0-G1	-	-
830: 80 CRI / 3000K	Lumens	768	1301	1557	518	883	1064	-	-
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B0-U0-G0	B0-U0-G1	B1-U0-G1	-	-
835: 80 CRI / 3500K	Lumens	795	1347	1611	536	914	1102	-	-
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B1-U0-G1	-	-
840: 80 CRI / 4000K	Lumens	850	1440	1723	573	978	1178	-	-
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B1-U0-G1	-	-
AMB: 590nm Amber	Lumens	-	-	-	-	-	-	130	98
	BUG Rating	-	-	-	-	-	-	B0-U0-G0	B0-U0-G0

Lumen Maintenance

Ambient Temperature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours*	Theoretical L70 Hours**	Theoretical L90 Hours**
25°C	97.9%	96.9%	96.4%	94.8%	823,000	225,000
40°C	97.1%	95.3%	94.6%	91.8%	461,000	126,000

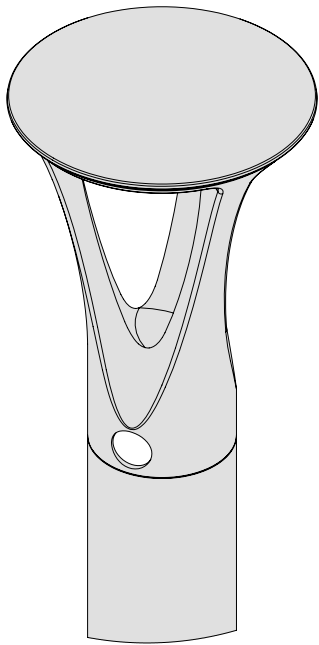
* Supported by IES TM-21 standards

** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use for IES TM-21 and LM80

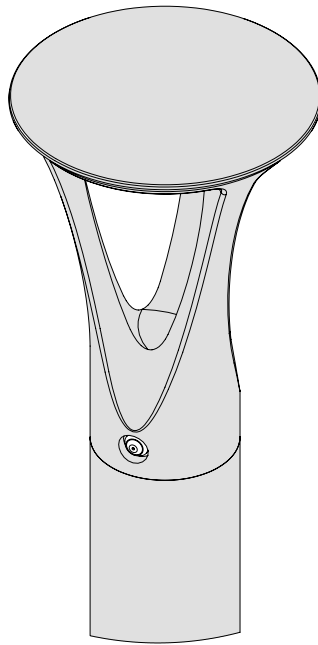
Ambient Temp. Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.98

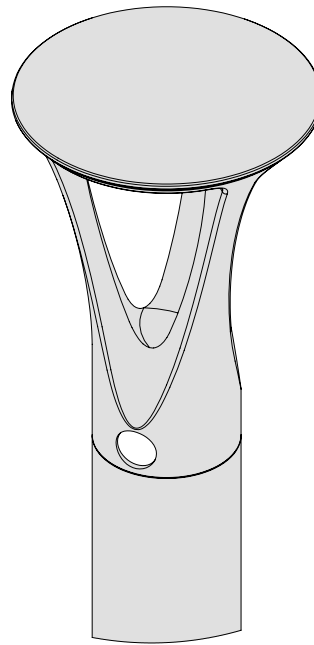
Technical Details



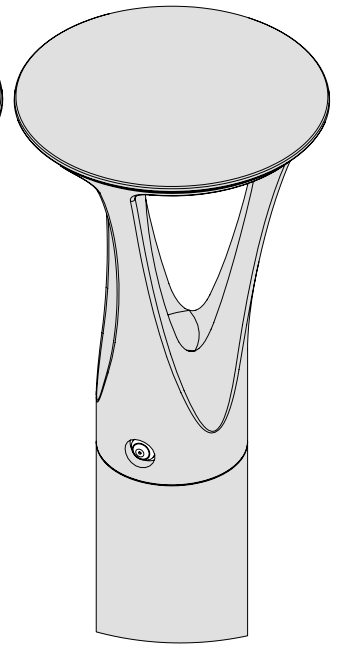
BPC Only
Button Photocell located
on House Side



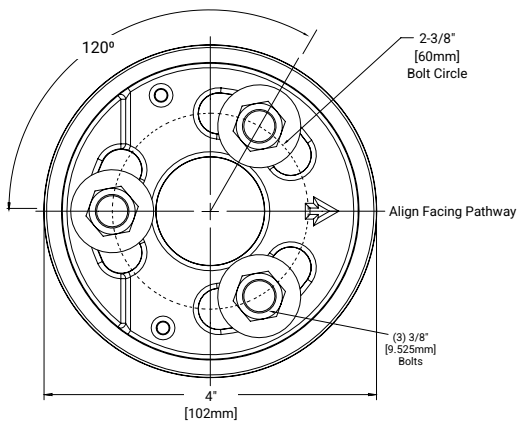
CBP Only
Battery test switch located
on House Side



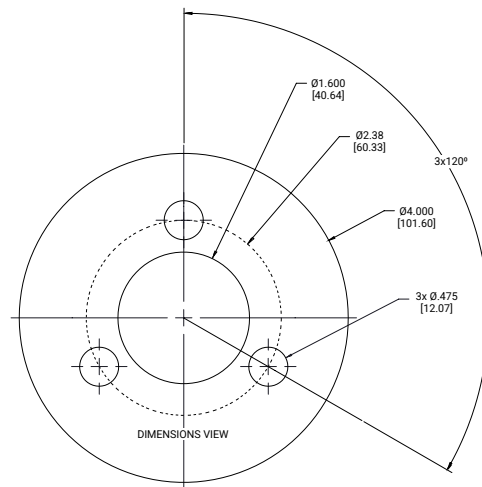
BPC and CBP
Button Photocell located on House Side, battery
test switch located on Street Side



Mounting Details



Base Mounting Detail



Anchor Bolt Template
(Included with 3816-03PK)