

## DESCRIPTION

The Arbor Bollard from Invue brings architectural style to the pedestrian level. The Arbor Bollard can be used along with Arbor post top luminaires to provide a coordinated look sure to enhance any architectural setting. WaveStream™ LED optics present a pixilation free image replacing visible glare, while providing high levels of pavement illumination.

<b>Catalog #</b>		<b>Type</b>	
<b>Project</b>			
<b>Comments</b>		<b>Date</b>	
<b>Prepared by</b>			

## SPECIFICATION FEATURES

### Construction

**Top Housing:** Low copper, cast aluminum top maintains strength and precision while providing for: rapid heat dissipation, vandal resistance and superior dayform. **Lower Housing:** Heavy 0.188" wall seamless extruded aluminum 4" O.D. shaft attaches to base via stainless steel fasteners. **BASE:** Rugged corrosion resistant extruded aluminum base mounts to foundation with three anchor bolts. Base features a pliable 1/2" thick neoprene leveling pad fitted to the bottom of base allows for sealing against water and dirt ingress regardless of minor deviations in grade of concrete pad.

### Optics

General purpose symmetric distribution is available using WaveStream LED optical technology. The optical waveguide is manufactured using precision injection molded acrylic for the ultimate level of glare control and visual comfort. Offered standard in 4000K (+/- 275K) CCT, optional 3000K minimum 80 CRI.

### Electrical

LED driver(s) are mounted to electrical tray for easy installation

and maintenance for 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Offered standard with 0-10V dimming driver and Cooper Lighting Solutions' proprietary circuit module designed to withstand 10kV of transient line surge. Luminaire is suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F) and IP66 rated against the ingress of dust and water.

### Controls

The Arbor Bollard options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. An integrated dimming and occupancy sensor is a standalone control option available in on/off (MSP) and bi-level dimming (MSP/DIM) operation. An optional handheld remote (ISHH) allows custom programming to suit all needs.

### Mounting

Luminaire is mounted to 3 x 1/2" anchor bolts on a 2-3/8" bolt circle to with stand a 600 pound overturn moment. Order anchor bolts and installation template separately (ABAnchor).

### Finish

Cooper Lighting Solutions utilizes Cooper premium ultra-weatherable TGIC

based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Cooper Lighting Solutions to serve functionally as well as decorative. Good film appearance combined with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard. Options to meet Buy American Act requirements

### Warranty

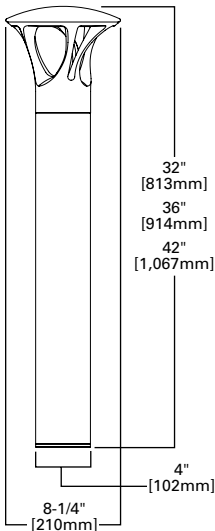
Five-year warranty.



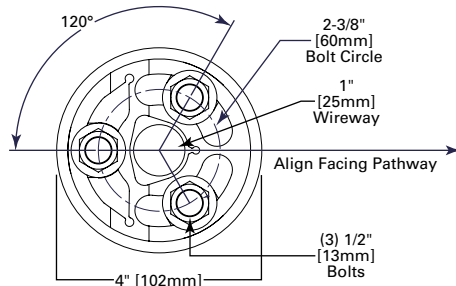
## ABB ARBOR BOLLARD

PATHWAY LUMINAIRE

## DIMENSIONS



## BOLT CIRCLE ORIENTATION



## CERTIFICATION DATA



UL/cUL Listed  
IP66 Housing  
ISO 9001  
RoHS  
Dark Sky Approved (3000K CCT and warmer only)

## ENERGY DATA

**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V 50/60Hz  
347V 60Hz, 480V 60Hz  
-30°C Minimum Temperature  
40°C Ambient Temperature Rating

**Approximate Net Weight:**  
19.25 lbs. [8.75 kgs.]

**POWER AND LUMENS**

Lumen/Distribution	B1 Symmetric	B2 Symmetric	B1 Asymmetric	B2 Asymmetric
<b>Drive Current</b>				
Power Wattage (Watts)	16W	32W	11W	23W
Input Current (mA) @ 120V	140	270	100	200
Input Current (mA) @ 208V	80	160	60	120
Input Current (mA) @ 240V	70	140	50	100
Input Current (mA) @ 277V	60	120	40	90
Power Wattage (Watts)	19W	37W	13W	27W
Input Current (mA) @ 347V	60	110	40	80
Input Current (mA) @ 480V	180	320	120	240
<b>Optics</b>				
Lumens	717	1,276	472	848
BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>94%	>350,000
40°C	>93%	>250,000
50°C	>90%	>170,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
50°C	0.97

**COLOR TEMPERATURE**

Color Temperature (CCT)	CRI (Nominal)	Multiplier (Hours)
4000	70	1.00
3000	80	0.87

**ORDERING INFORMATION**

Sample Number: ABB-B2-LED-42-D1-A-GM

Product Family	Lumen Output <sup>1</sup>	CRI / CCT	Source	Nominal Height	Voltage	Distribution	Color
ABB=Arbor Bollard BAA-ABB=Arbor Bollard Buy American Act Compliant <sup>10</sup>	B1=Mid Lumen Output B2=High Lumen Output	8027=80 CRI / 2700K CCT 8030=80 CRI / 3000K CCT <sup>6</sup>	LED	30=32" 36=36" 42=42"	D1=Dimming Driver (120-277V) <sup>2</sup> 347=347V <sup>3</sup> 480=480V <sup>3,4</sup>	A=Asymmetric S=Symmetric	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color <sup>5</sup>
<b>Options (Add as Suffix)</b>					<b>Accessories (Order Separately) <sup>11</sup></b>		
8030=80 CRI / 3000K CCT <sup>6</sup> HA=High Ambient <sup>7</sup> MS/DIM-H8=Motion Sensor for Dimming or Bi-Level Operation (Horizontal Detection) <sup>8</sup> MS/DIM-2H8=Twin Motion Sensors for 360° Dimming or Bi-Level Operation (Horizontal Detection) <sup>8</sup> DIM=0-10V Dimming Driver Leads Brought Out from Fixture					ABAnchor=Anchor Bolt Kit and Template <sup>9</sup> ISHH=Wireless Configuration Tool for Integrated Sensor (Occupancy Sensor Settings)		

- NOTES:**
- Standard 4000K CCT nominal 70 CRI.
  - Dimming driver standard.
  - Requires the use of a step down transformer.
  - 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.
  - Extended lead times apply. Use dedicated IES files when performing layouts.
  - 50°C ambient rating.
  - The ISHH configuration tool is required to adjust parameters including high and low dimming levels, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
  - Contact your customer service representative at Cooper Lighting Solutions for advance shipping.
  - Only product configurations with this designated prefix 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.
  - Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.