

**ZUMA****LIGHTING**

Project _____ Type _____ Qty _____

Company _____ Part # _____

Makena Bollard

Overview

The Makena Bollard is constructed from cast aluminum. Designed to illuminate pathways, it also enhances safety by clearly defining property boundaries for drivers.



Size

Available in standard 8.5" diameter with standard height of 45.5". Custom sizes available.

Electrical

- Watts: 7, 10, 12, 15, 20 and 25W
- Voltage: 120v through 277v (U). 347-480v (HV).

LED

High performance LED CRI: 80. Color temperature ranges from CCT: 2700K - 5000K. Also available in Amber LED array.

Optics

Available Optics: 180° Optics (T180), 360° Optics (T360).

Lens

Acrylic Lens: Frosted Lens (FL), Opal White Lens (OL), or Clear Lens with Louvers (CL).

Mounting

Heavy duty internal baseplate (IBP) installs on the ground with anchor bolts (four anchor bolts, nuts and washers). External base plate (ESM) also available, consult factory.

Finish

Outdoor polyester powder coat, available in our Zuma standard finishes with a four-step pretreat process to ensure optimal adhesion and surface integrity. Also available in custom RAL and in marine grade finish (MGF), specify.

Controls

- Dimming. 0-10v dimming (D) available.
- Photocell: Small button Style photo cell available in 120V (PH1)¹ or 120v through 277v (PH2) on side of fixture².

1 For use with 120v input voltage only.

2 For use with 120v through 277v universal voltage (U) only.

Options

- Bollard can be made to "Buy American Compliant" (BAA)¹ and "Build America, Buy America Act Compliant" (BABA)¹ (includes BAA)
- Emergency Battery Backup (EMB)
- Sky Night Friendly (SKY)
- 180° Houseside Shield (HSS)
- Surge Protection (S): Field installed in the bottom of the bollard.
- Marine grade finish (MGF) available in standard and custom colors, consult factory.
- Vandal Resistance Hardware (VRH): Optional vandal resistant stainless steel hardware installed for added security.

1 Must specify at time of ordering in order to ensure product is manufactured to meet all required compliances.



Certificates & Warranty

- Designed to comply with UL 8750
- Suitable for Wet Locations
- 5-Year Warranty

Technical

- Operating Temperature: -40°F to 95°F (-40°C to 35°C)



Please consult Zuma Lighting for the most current information.



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Example Code: MAK-B-25W-HV-35K-T360-FL-IBP-GRN-D-PC-BAA-EMB-SKY-HSS-S-MGF-VRH

Item	Wattage	Volts	Color Temp	Optics	Lens	Mounting	Finish	Controls	Options
MAK-B Makena Bollard	7W	U 120v-277v	27K 2700K	T180 Type 180°	FL Frosted Lens	IBP Internal Baseplate Mount	BZ8 Zuma Bronze	D Dimming (0-10v)	BAA¹ Buy American Act Compliant
	10W	HV 347v- 480v	3K 3000K	T360 Type 360°	OL Opal White Lens	ESM External Surface Mount	BK GT Black	PC Photocell	BABA¹ Build America, Buy America Act Compliant
	12W		35K 3500K		CL Clear Lens w/ Louvers		SL Iridium Silver		EMB Emergency Battery Backup
	15W		4K 4000K				WH Alpine White		SKY Sky Night Friendly
	20W		45K 4500K				GRY Granite Gray		HSS 180° Houseside Shield
	25W		5K 5000K				GRN Moss Green	S	MGF Surge Protection
			AMBR² 560nm+				CCxxx³ Custom Color		VRH Vandal Resistant Hardware

¹ Consult our sales team for detailed information on compliance with domestic manufacturing regulations.
² Amber lighting is for turtle and wildlife friendly requirements (560nm+) and lumen outputs will be reduced to approximately 40-50 lm/w.
³ Custom colors: Available in smooth and textured finishes. Also available in RAL and Sherwin Williams colors, consult factory.





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Dimensions

