

BOLLARD LIGHT MBL02



The MBL02, a member of the MESTER LED Bollards family, features a sturdy die-cast housing and a stylish design, making it ideal for illuminating building entrances, pathways, pedestrian squares, and sidewalks where low installation height is required. The durable polycarbonate lens and three different top covers, and allow customers to replace light engine systems according to application needs. It also offers adjustable wattage and CCT (3000K/4000K/5000K), providing energy-saving and visually comfortable lighting solutions while greatly enhancing the flexibility and scalability of the product.

SPECIFICATION FEATURES

Construction

- Strong and durable die -cast aluminum case.
- Round appearance for good decorative effect, sized in 3.5ft height.
- Robust ground cage pre-buried installation.
- 360 degrees surround illumination.

Optics

- Light engines are available in color selectable version, the CCT can be changed to three CCTs (3000K, 4000K, 5000K).
- Scalable Lumen Packages from 1,400 to 3,200 Lumens with efficacy up to 150lm/W.
- Milky lens with a soft visual comfort lighting.
- Transparent lens with a bright lighting effect.
- Full louvers provide a low brightness and wide light distribution.

Electrical

- Universal 120-277VAC input voltage.
- Wattage adjustable: 24W, 19W, 14W, 10W.
- 0-10V dimming standard for a dimming range of 100% to 10%.
- PF >90%, THD <20%.
- Operating Temperature Range: -40°C to 45°C (-40°F to 113°F).

Note: Operating with emergency battery temperature range: 5°C to 45°C (+41°F to 113°F).

Square



Round



Dome



Controls

- Optional Emergency Battery.

Lifespan

- Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Warranty

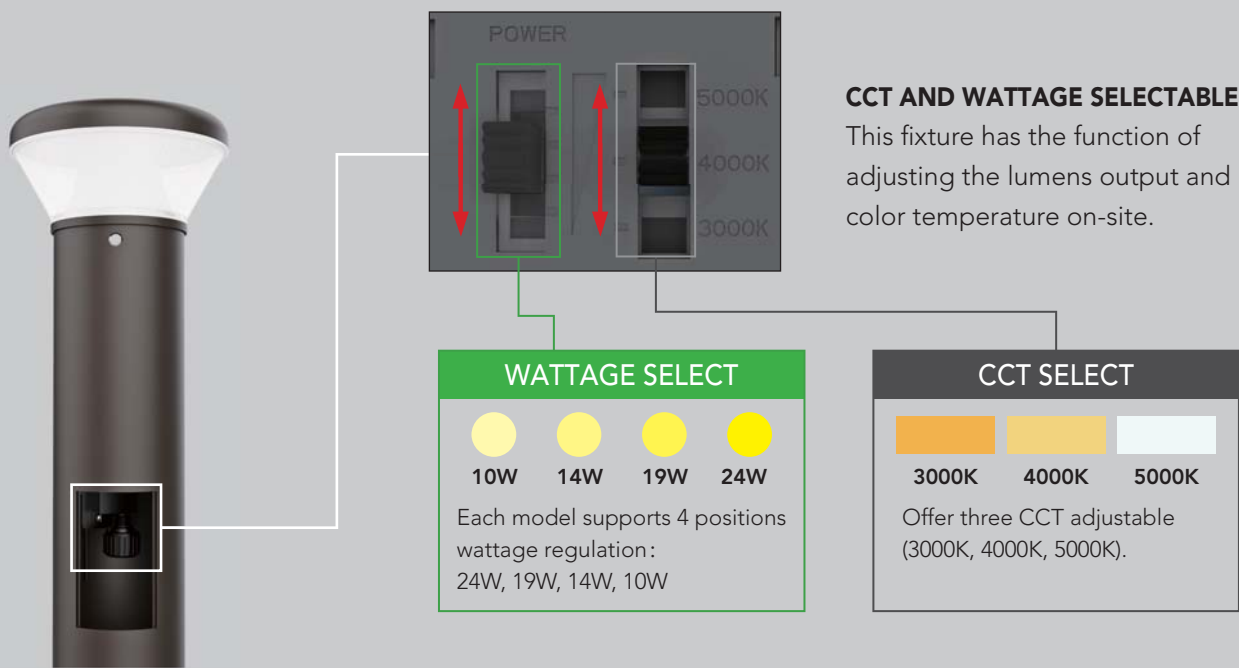
- Five-year limited warranty.

Certifications

- UL cUL wet location listed.

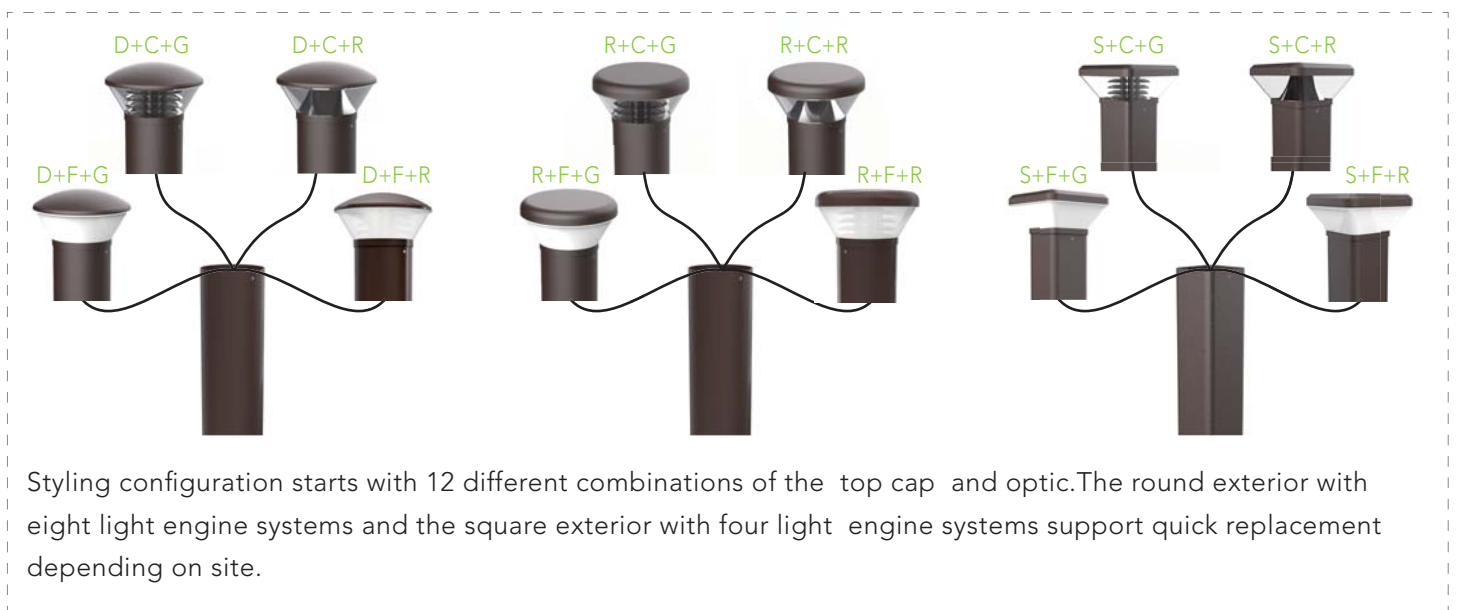
Note

- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C(±5°C) specifications subject to change without notice.





APPEARANCES



PERFORMANCE DATA

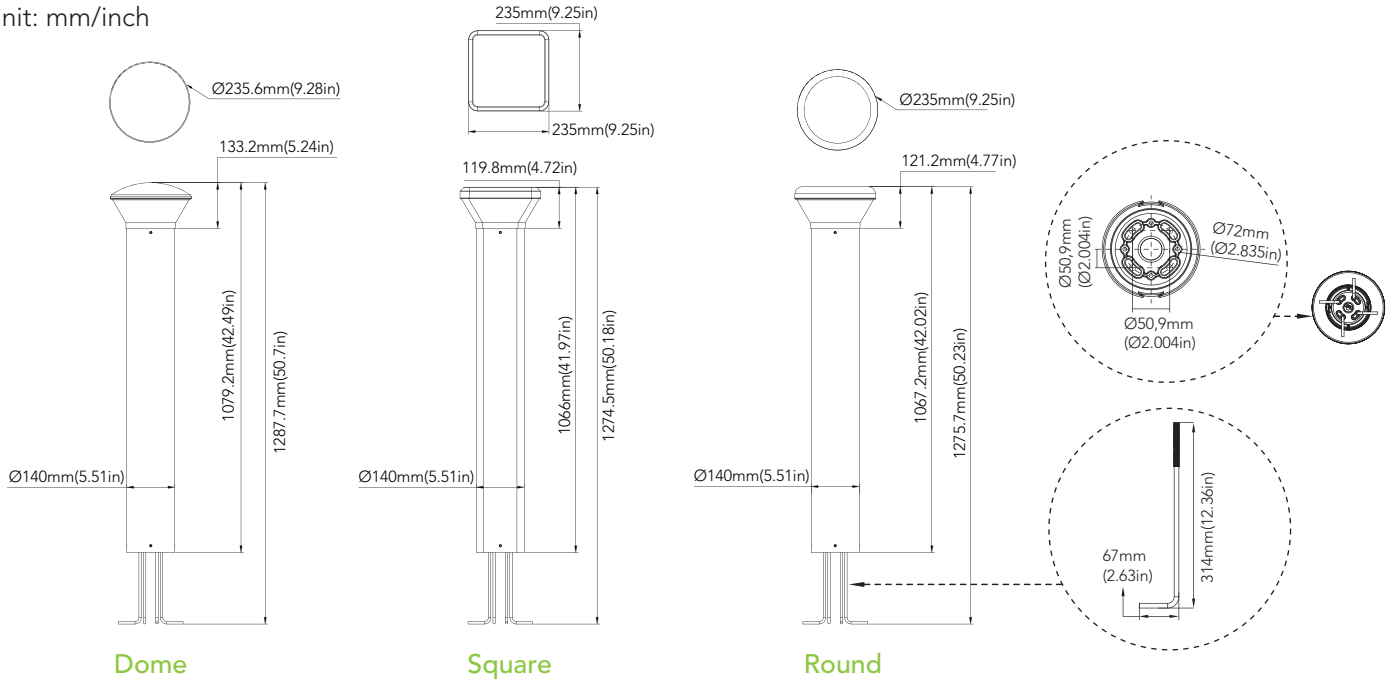
SWITCH SETTING	SETTING WATTS	CRI	3000K		4000K		5000K	
			LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	24W	80	3000lm	125 lm/W	3200lm	133 lm/W	3100lm	129 lm/W
80%	19W	80	2500lm	132 lm/W	2600lm	137 lm/W	2550lm	134 lm/W
60%	14W	80	1900lm	136 lm/W	2000lm	143 lm/W	1950lm	139 lm/W
40%	10W	80	1400lm	140 lm/W	1500lm	150 lm/W	1450lm	145 lm/W

ELECTRICAL DATA

NUMBER OF DRIVERS	DRIVER CURRENT (mA)	NOMINAL POWER (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	440	24	120	0.20
		24	208	0.12
		24	240	0.10
		24	277	0.09

DIMENSION

unit: mm/inch



ACCESSORIES (Optional)

 <p>Emergency Battery Backup NO. EB-8W/90min-1 USE: 900lm 90min</p>	 <p>Bollard base kit USE: Suit for round structure.</p>
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ORDERING GUIDE										Example: MBL02 24W 27V DDK B Blank B GR S CD Blank
Fixture Type	Wattage	Voltage	CCT	Finish	Photocell	Backup Battery (Option)	Distribution (Option)	Structure category	Diffuser	Internal Code
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
MBL02 Bollard Light	24 24W	27V 120-277V	DDK Adjustable color temperature	D Dark Bronze B Black W White SG Silver Grey	P with photocell Blank Without photocell	B With Emergency Battery Blank Without Emergency Battery	GR grille distribution. Blank round distribution	S Square R Round D Dome top	CD clear diffuser FD frosted diffuser	Blank Alphanumeric