

*Dark Sky  
Logo*

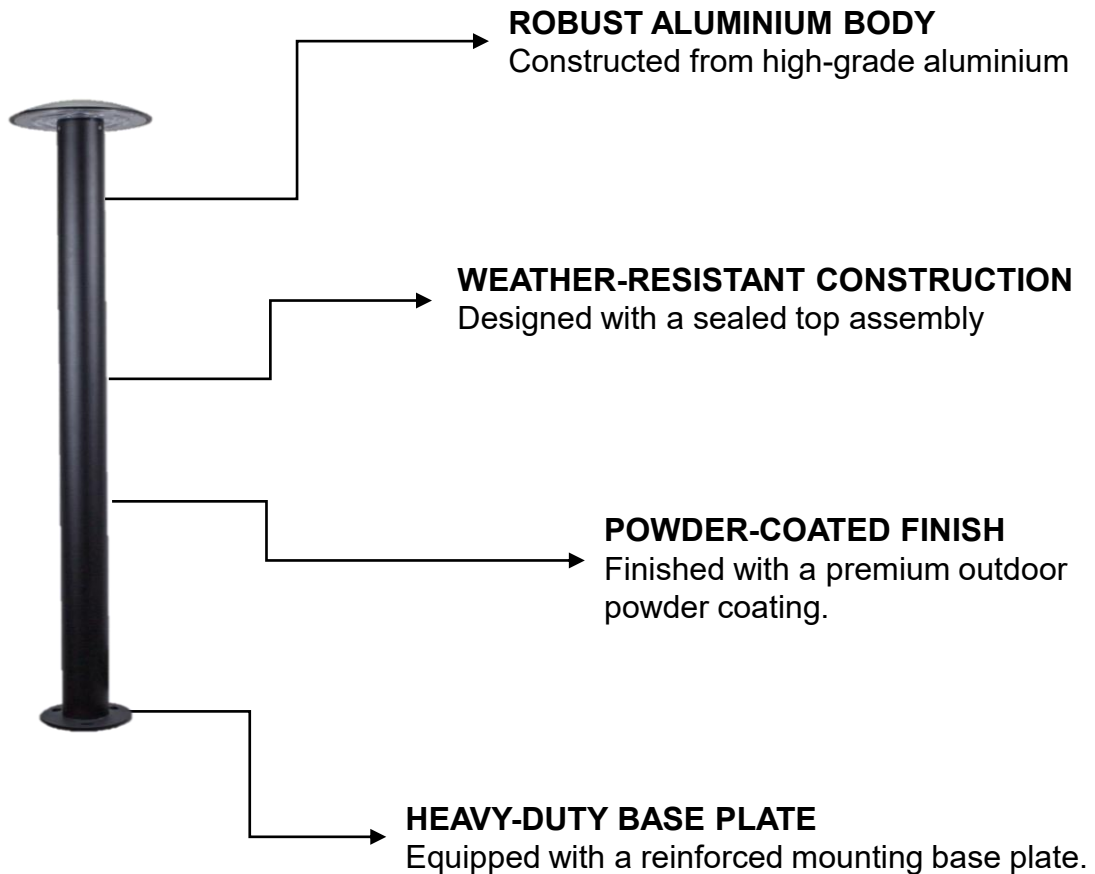
## **BOLLAX MR**

BLXMR-BLD-20W-XXXXK





## PRODUCT HIGHLIGHTS



## FEATURES



Thermal  
Management



Corrosion  
Resistance



Vibration  
Resistance



Easy  
Maintenance

# BOLLAX MR

BLXMR-BLD-20W-XXXXK



## DESCRIPTION

BOLLAX-MR is a durable outdoor LED lighting solution engineered to perform reliably in demanding environmental conditions. With its weather-resistant construction and sleek, modern design, it seamlessly combines strength with aesthetic appeal. Ideal for pathways, landscapes, and outdoor environments.

### Conformity

CB



مجلس أبوظبي  
للجودة والمطابقة  
Abu Dhabi Quality &  
Conformity Council



### Compliant with



### Tested for Safety



Salt  
Spray



3G  
Vibration



Photobiological  
Safety

### Insulation Class



### Protection Class



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## ORDERING CODE

BLXMR-BLD-20W-XXXXK-xx-xxx-xx

PRODUCT NAME	CATEGORY	PRODUCT FAMILY	POWER	CCT	BODY COLOUR	CONTROL OPTIONS	DIMENSION
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BLX	MR	BLD	XXW	XXXXK	xx	xxx	xx
BOLLAX	SHAPE	BOLLARD	UP TO 20W	2700K	BL (BLACK)	10V (1-10V)	TH (1000-1200 mm)
				3000K	SP (SPECIAL)	DAL (DALI)	MH (650 mm)
							CH (350 mm)

Example: For the bollard model Bollax MR with a power rating of 20W, CCT 2700K, black body colour, DALI dimmable controller, and a height of 1000 mm, the ordering code will be BLXMR-BLD-20W-2700K-BL-DAL-TH

## TECHNICAL SPECIFICATION

### LUMINAIRE DETAILS

PRODUCT NAME	BOLLAX MR
PRODUCT TYPE	LED BOLLARD LIGHT
PRODUCT CODE	BLXMR-BLD-XXW-XXXXK
MAXIMUM HOUSING POWER	UP TO 20W

### HOUSING DETAILS

BODY MATERIAL	CORROSION-RESISTANT ALUMINIUM DIE-CAST
LENS	UV-STABILIZED POLYCARBONATE (PC) LENS
OPTICS	SYMMETRIC
BODY COLOUR	BLACK / SPECIAL

### CHIP DETAILS

LIGHT SOURCE	SMD
AVAILABLE CCT	2700K - 3000K
MACADAM BINNING	STEP 2
CRI	≥80





## TECHNICAL SPECIFICATION

### OPTICAL DETAILS

BEAM ANGLE	127.3°
OPTICS	IES Type V (Very Short)
BUG RATING	B1-U0-G1
ULOR(Upward Light Output Ratio)	0% (U0 – Zero Uplight)

### LUMINAIRE PERFORMANCE

LUMINAIRE FLUX	2,109 lm (@ 17.65 W Tested)
EFFICACY	119.43 lm/W

### ENVIRONMENTAL CONDITIONS

AMBIENT TEMPERATURE (TA)	-20°C TO +50°C
HUMIDITY	RH 10–95%

### PROTECTION & DURABILITY

IP RATING	IP66
IK RATING	IK09

### ELECTRICAL DETAILS

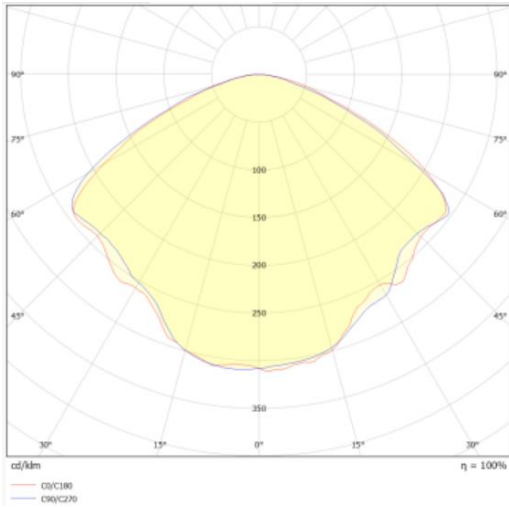
NOMINAL VOLTAGE	220–240 VAC
FREQUENCY	50/60 HZ
LED DRIVER CURRENT	500 mA
POWER FACTOR	≥0.90
RATED POWER	20W
THD	≤20%
CONTROL OPTIONS	DALI, 1–10V DIMMING



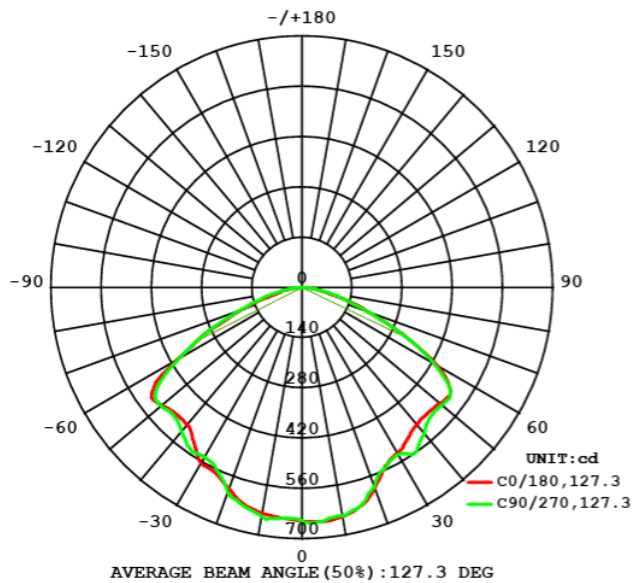


## OPTICS & PHOTOMETRIC DETAILS

Polar Plot



Linear Plot





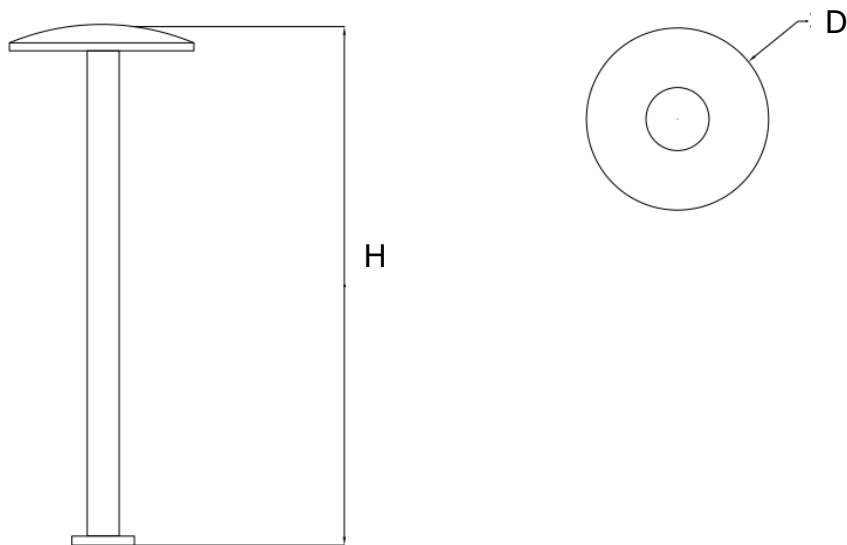
## CUSTOM DIMMING PROFILE

The bollard luminaire supports 1–10 V dimming as well as DALI dimming, allowing smooth and reliable adjustment of light output according to the required ambiance or energy-saving needs. By integrating with compatible lighting control systems, the brightness can be adjusted from full output to lower levels while maintaining stable performance.

- 1–10 V dimming: Simple analog dimming.
- DALI dimming: Digital, programmable dimming for advanced control.

This feature is ideal for pathways, landscapes, and architectural outdoor applications where lighting levels may need to be adjusted at different times of the night, improving visual comfort while reducing energy consumption

## DIMENSIONAL DETAILS

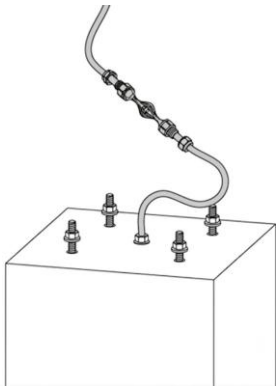


### DIMENSIONS

HEIGHT	1200 / 1000 / 650 / 350 mm
DIA	230 mm

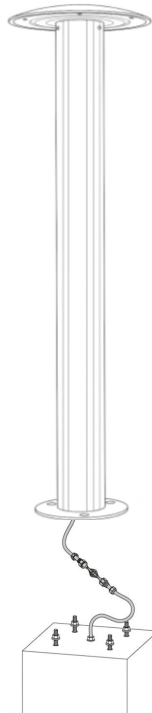


## GENERIC INSTALLATION STEPS



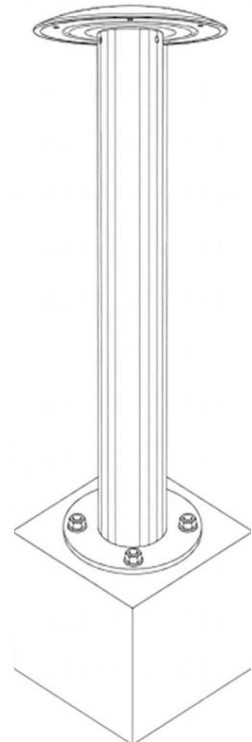
### 1. Base Preparation

Prepare a secure concrete base with pre-installed mounting anchor bolts and route the power cables to the designated installation point.



### 2. Fixture Mounting

Position the bollard on the base, connect the power cables, and securely align with the anchor bolts.



### 3. Wiring & Test

Connect the power cables, align the fixture with the anchor bolts, securely fasten it to the base, and switch on the power to test the luminaire.

#### Note:

- Use only suitably rated IP connectors (minimum IP66 or above) for all electrical connections.
- Where luminaire drivers are installed remotely, they shall be housed within appropriately rated IP enclosures to ensure protection against environmental ingress.



## UNDERSTANDING BOLLARD HEIGHT SELECTION



**CH: 350 mm**



**MH: 650 mm**



**TH: 1000 -1200 mm**



### **Compact Height Bollards (CH) : (350 mm)**

Suitable for landscape areas, pathways, and decorative applications where subtle illumination is preferred. Featuring a lower height profile, it provides soft guidance lighting with minimal glare and enhanced visual comfort.

### **Medium Height Bollards (MH): (650 mm)**

Ideal for balanced pathway lighting in residential and commercial outdoor spaces, With a medium-height configuration, it offers an optimal balance between visibility and visual comfort without overpowering the surroundings.

### **Tall Height Bollards (TH): (1000 mm)**

Designed for primary pathway lighting, public spaces, and open areas where enhanced visibility and wider light distribution are required. Typically configured with a taller form factor.

### **Tall Height Bollards (TH): (1000-1200mm)**

Ideal for pathways, gardens, parks, and outdoor spaces, providing reliable illumination while enhancing safety and landscape aesthetics