DIMON
TECHNOLOGY

Technical Datasheet

LUMINA (Solar-Standalone Operation)

Solar Bollard Light with PIR intelligent control



IP66 | IK08 | C3 anti-corrosion | PIR | CE | RoHS



Solar ollard light offers two height options: 520 mm and 920 mm. With a PIR sensor, it provide s a working duration of 4 to 5 days. Each light isequipped with a remote control for easy on/off ope ration. With an IP66 rating for water and dustresistance and an IK08 rating for impactbprotectio n, it ensures durability for outdoor lighting applications

- Solar-Standalone Operation
- 520mm and 920mm two height options
- Equipped with PIR motion sensor for save energy
- High efficiency Mono-crysralline solar panel
- Operating time: Full power on 8-9 hours, Intelligent mode: 4-5 days

LUMINA

Solar Bollard Light with PIR intelligent control

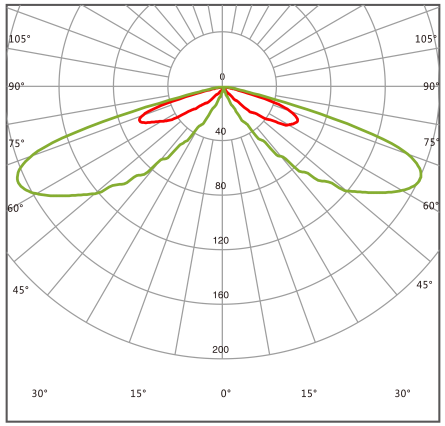
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Technical Data

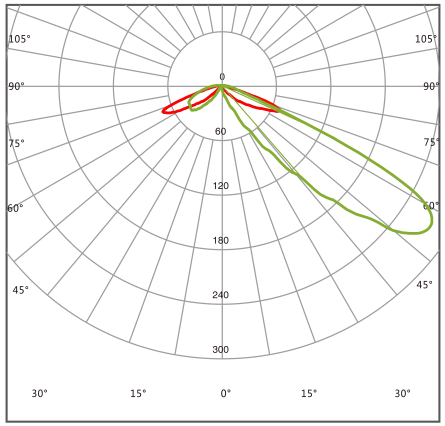
Luminaire Type	Mounting kit with anchor bolts
Solar Panels Type	Mono-Crystalline solar panel
Solar panel wattage(W) Solar panel voltage(V)	5W 5V
Battery Type	LiFePO4 battery
Battery capacity(Wh) Battery lifetime Charge controller type	38.4Wh Battery ampere: 12Ah Battery voltage(V): 3.2V Battery lifetime> >2,000 cycles (D.OD. 80%) PWM
Intelligent mode	PIR -Senosr intelligent control
Charging time(hrs) Operating time(hrs)	12 hours assumption Full Power on 8-9 hours, Intelligent mode:4-5days
Electrical class	Class III
LED Light Nominal wattage(W) ±5%	5W
Light source	LED2835
Control Protocol Setting	Remote Control :DM-Unit-32
Beam Angle	Symmetric Angle 3201 or 3203 Asymmetric Angle 3202
Lumen Maintenance LM-80 Reported by TM-21	L70 > 45,000 hrs
LED Life-LED壽命-La vida del LED	>60,000 hours
Color Temperature	3000K / 4000K / 5000K
Color Rendering Index	>80
MacAdam Ellipses Binning	Standard Deviation Colour Matching < 3 SDCM
Luminaire Efficacy燈具效率La eficacia de la luminaria	140 Lm/w(3000K), 160 Lm/w(4000K), 160 Lm/w(5000K),
Housing materials-外殼材料 Materiales de la carcasa	Aluminum Alloy and Anti UV Polycarbonate Optical Lens
Housing Color	Polyester powder Coating-- Black Black RAL9017
Ingress Protection	IP66
Mech impact protection	IK08
Accessories	• Visor (DM-B01-01) • Mounting kit with anchor bolts
Dimension- Luminaire Net Weight	• Φ230×520mm(Φ9.06"×20.47") Φ230×920mm(Φ9.06"×36.22") • 5.1±0.3kg(11.24±0.66Lbs) 6.6±0.3kg(14.55±0.66Lbs)
Operating Temperature Range	-20 ℃ / +50 ℃
Operating Humidity -	0~90%, non-condensing
Comply Testing Standard	LED Luminaires: IEC 60598-1 / IEC 60598-2-1 LED Driver: IEC/EN 61347-1; IEC/EN 61347-2-13; IEC/EN 62384; IEC/EN 61000-3-2; IEC/EN 61000-3-3;IEC/EN61574;EN 55015
Certification	IK 08 IP66

BEAM ANGLE

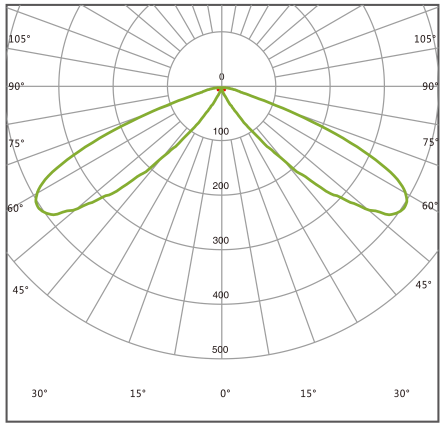
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3201



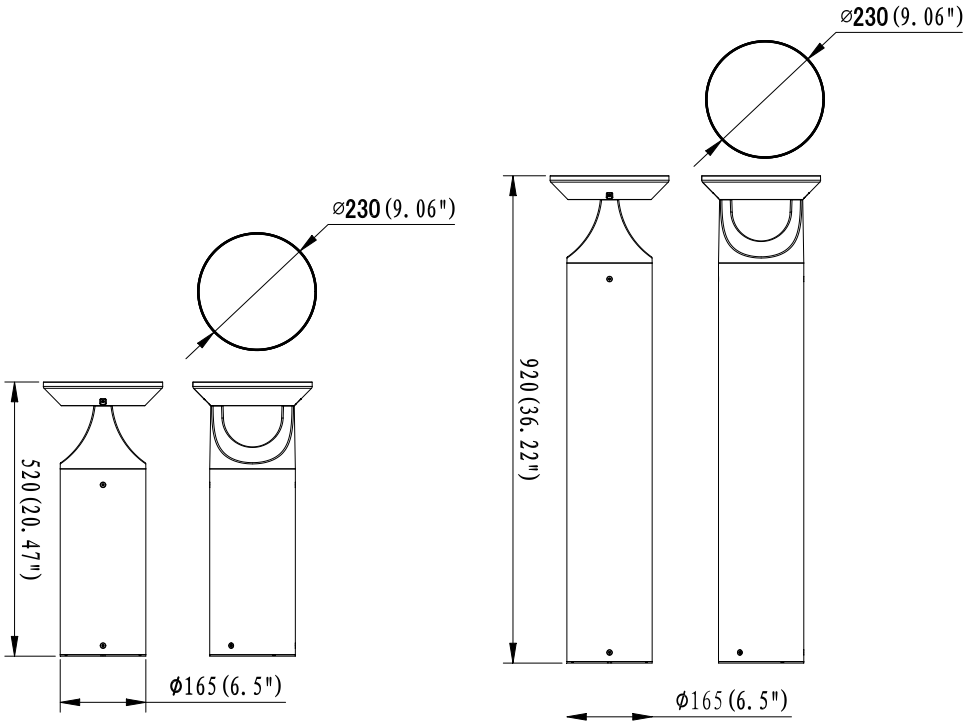
3202



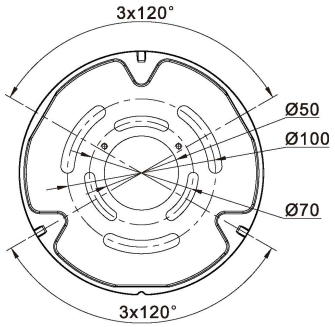
3203

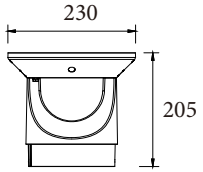
Technical Drawing

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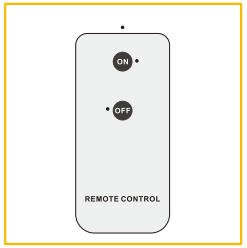


Base plate templates





Accessories



Remote Control
Remote control for solar LED bollard light

Code: DM-Unit-32



Round House Side Shield
To reduce glare light

Code: DM-B01-01

MOUNTING OPTIONS

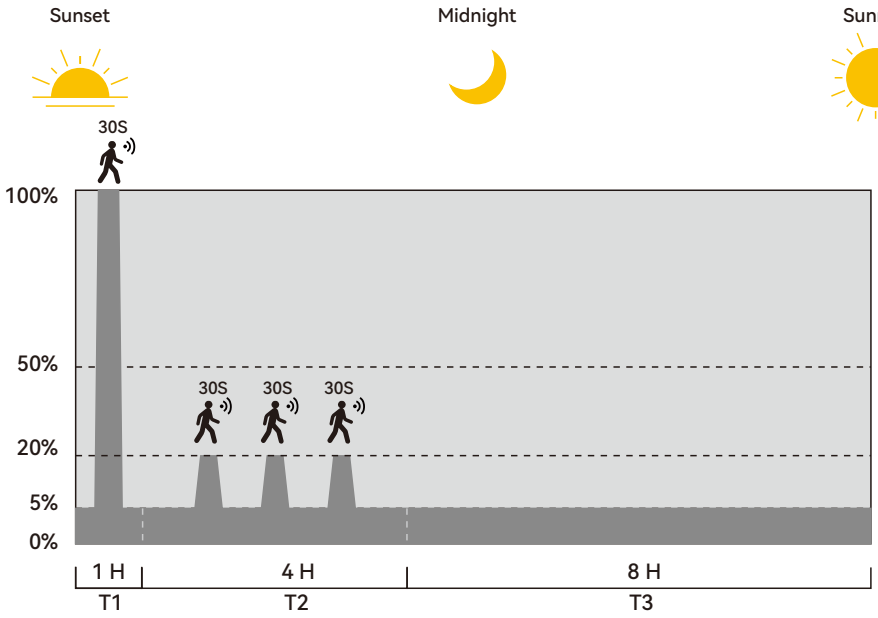


Anchor Bolt Templates



Backfilled anchor

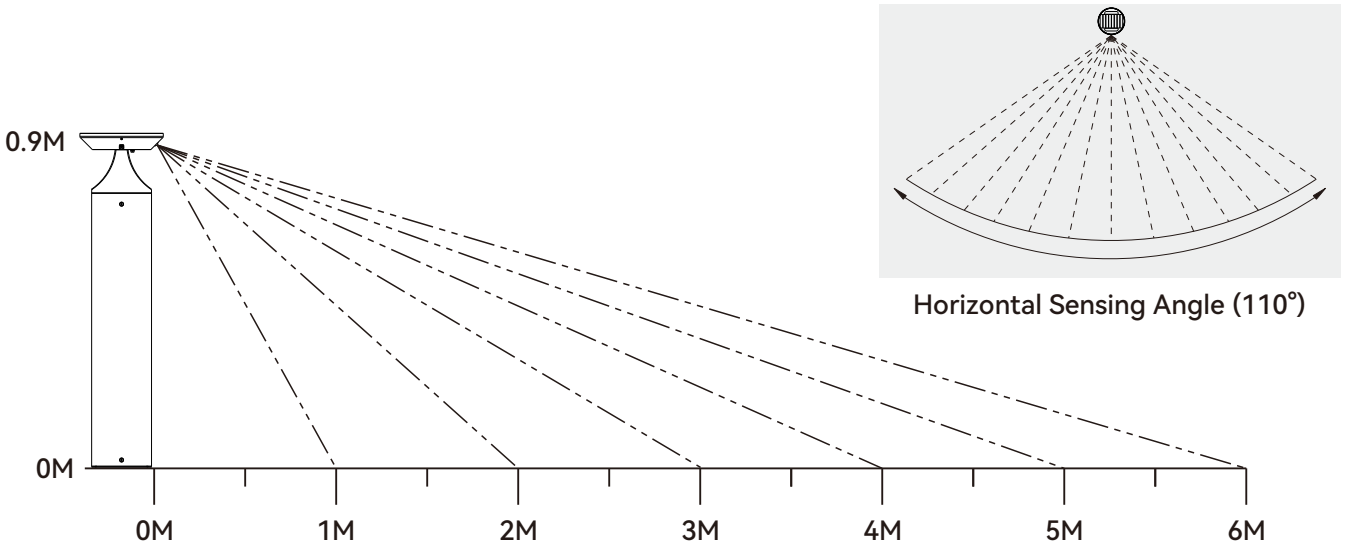
LIGHT MODE



Default working mode	Working hours	T1(1H)	T2(4H)	T3(8H)
	Not detected	5%	5%	5%
	Detected	100%	20%	N/A
	Light Delay 30s: When motion is detected, the light operates at the Detected brightness level. When no motion is detected, after 30 seconds, the light switches to the Not detected brightness level.			

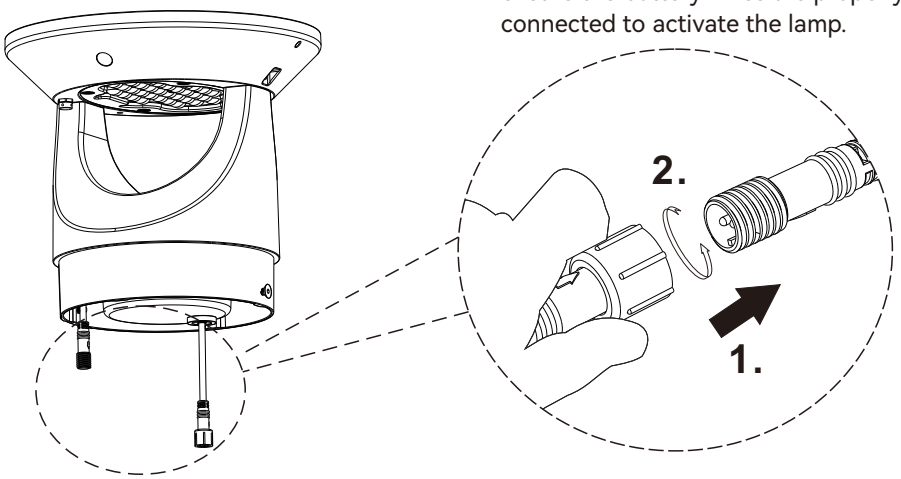
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PIR SENSING DISTANCE

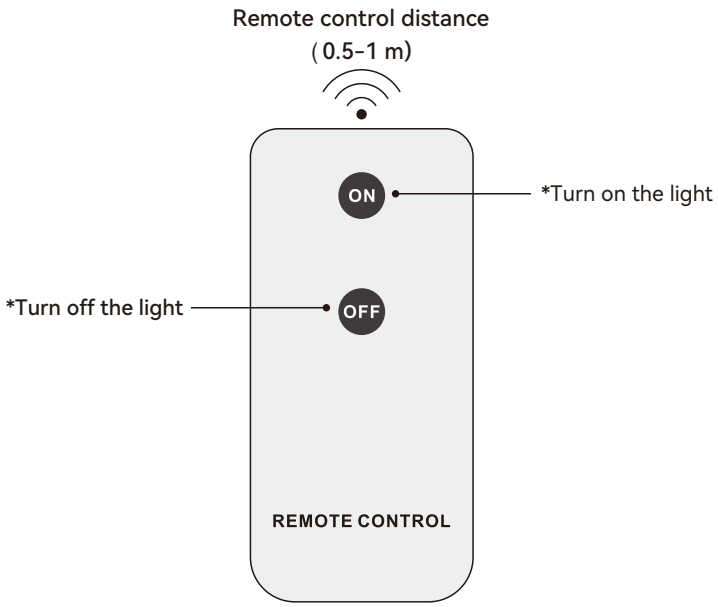


SWITCHES

Before installing the bollard head, ensure the battery wires are properly connected to activate the lamp.



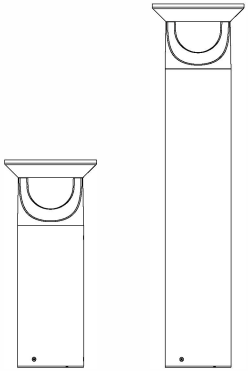
REMOTE CONTROL DESCRIPTION



LED Bollard

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Installation Instructions

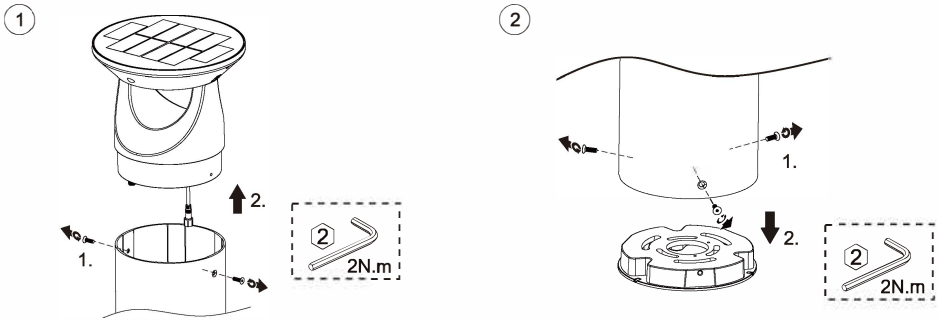


WARNING

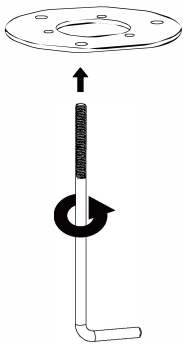
- Turn off power supply before installation or before doing any maintenance work.
- Clean the luminaire regularly if using it in heavy dust or oil gas area.
- PIR sensor should keep away from large areas of metal and glass reflectors.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

Installation

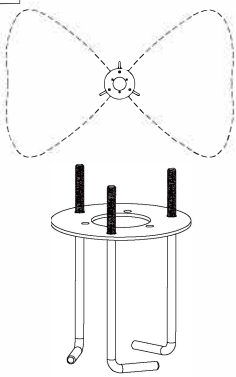
1. *** If the bollard are full assembled, please follow the instructions below.**



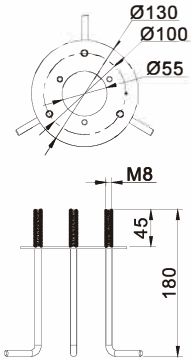
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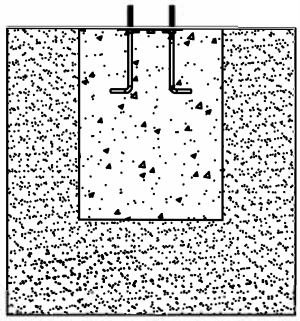
3.



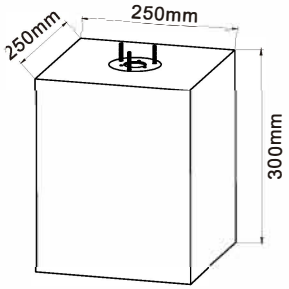
Unit: mm



4.

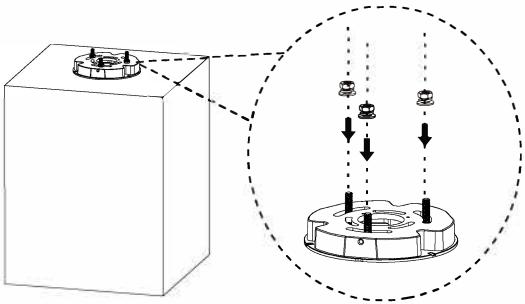


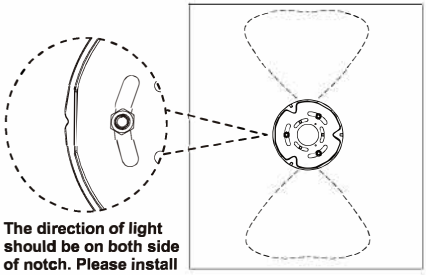
Suggested cement column size:



5.



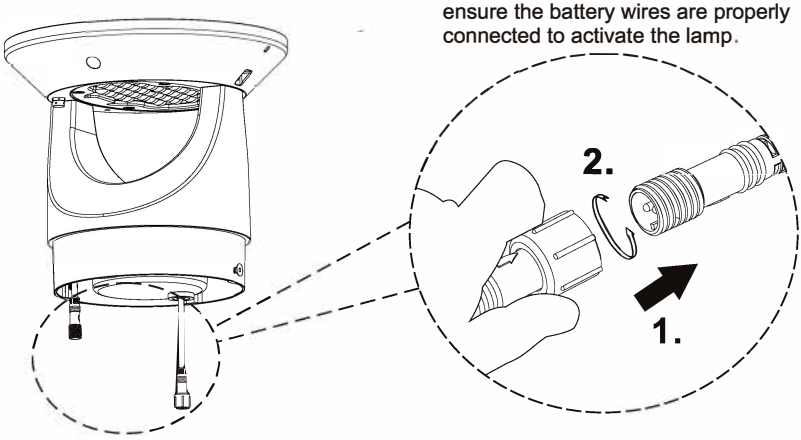




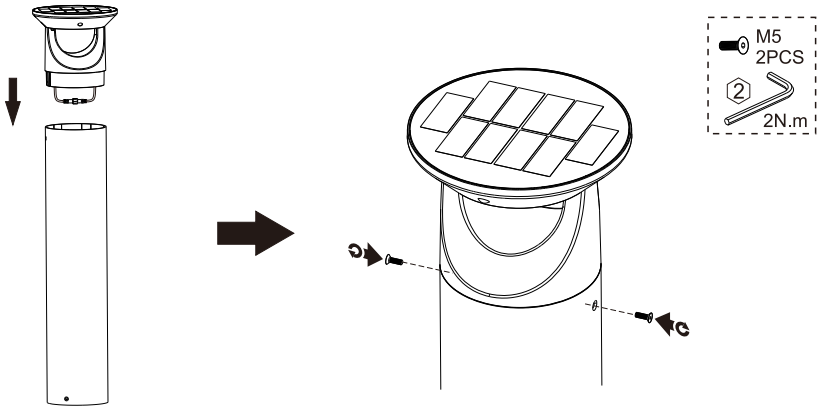
The direction of light should be on both side of notch. Please install bollard head properly.

6.

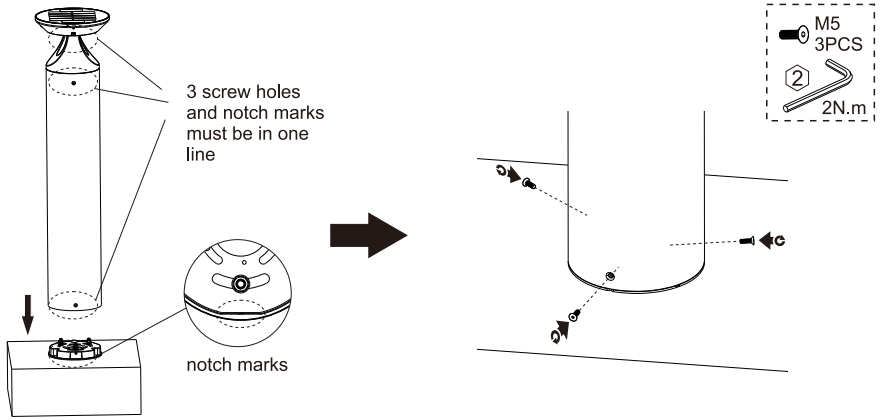
Before installing the bollard head, ensure the battery wires are properly connected to activate the lamp.



7.


M5
2PCS
2
2N.m

8.


3 screw holes
and notch marks
must be in one
line
notch marks
M5
3PCS
2
2N.m

9.

