ovBeacon MB2-380

ovSolar (Omnivoltaic Power Company Limited)

Results based on test procedures detailed in IEC 62257-9-5, ed. 2.0

Verify Online: www.lightingglobal.org/products/mar-mb2380

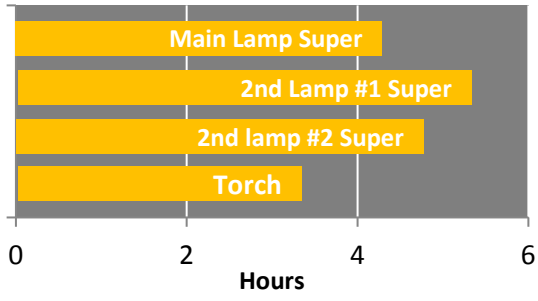
Valid Until: June 30, 2018

Lumens

430

All Lamps Super with Torch

Solar Run Time



Meets Lighting Global Quality Standards

Mobile Charging

4 **Light Points**

Warranty Information

A 2-year warranty against material or manufacturing defects.

Performance Details

	Brightness Setting***			
Performance Measure	**All Lamps Super with Torch**	**Main Lamp Super**	**2nd Lamp Super**	**Torch On**
Full battery run time* (hours)	--	5.3	5.7	5
Run time per day of solar charging* (hours)	4.3 (Main Lamp Super) 5.7 (2nd Lamp #1 Super) 4.5 (2nd Lamp #2 Super) 3.1 (Torch)	--	--	--
Total light output (lumens)	210 (Main Lamp Super) 92 (2nd Lamp #1 Super) 92 (2nd Lamp #2 Super) 32 (Torch)	210	92	32
Total area with illumination > 50 lux** (m^2)	--	1.1	0.13	0.2
Total lighting service (lumen-hours / solar-day)	1900	--	470	--

* Run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

** Total area with illumination > 50 lux is determined by the maximum area with adequate illumination at a 0.75 m distance and at the distance from which the product would normally provide task lighting service.

*** Additional brightness settings (not tested): Main lamp Normal, Main lamp Bed Light, Secondary Lamps Normal, Secondary Lamps Bed Light

Lighting Details	
Lamp type	LED
Description of light points	One main lamp, two secondary lamps, and one torch
Colour characteristics	CRI 72 CCT "Near Daylight" (3000-5000 K)
Distribution type	Wide
Lumen maintenance	93% of the original output remains after 2,000 hours run time
Special Features	
Mobile charging	Adapters included to charge mobile phone from Main lamp battery
Product box	Box acts as a stand to use Main lamp and Secondary lamps as desk lights
LEDs	UV-free LEDs
Batteries	High-temperature batteries used
Remote	Torch acts as wireless remote to turn Main and Secondary lamps on/off
Durability	
Overall durability and workmanship	Pass
Durability tests passed	Drop test, switch and connector cycling, strain relief test, physical ingress protection test. protection from occasional rain
Solar Details	
PV module type	Polycrystalline silicon
PV maximum power point	3.9 watts
Battery Details	
Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Battery package type	Main lamp: 26650 Secondary Lamp:18650 Torch: 14500
Battery capacity	Main lamp: 3200 mAh Secondary Lamp: 1500 mAh Torch: 540 mAh
Battery nominal voltage	3.2 V
Appropriate battery protection circuit	Pass
Product Details	
Manufacturer name	ovSolar (Omnivoltaic Power Company Limited)
Product name	ovBeacon MB2-380
Product model / ID number	MB2-380
Contact information	info@ovsolar.com
Website	www.ovsolar.com
SSS Information	
Specs sheet expiration date	June 30, 2018
Quality Standards Framework Version	2016
Revision	2016.06