ovBeacon MB2-380

ovSolar (Omnivoltaic Power Company Limited)

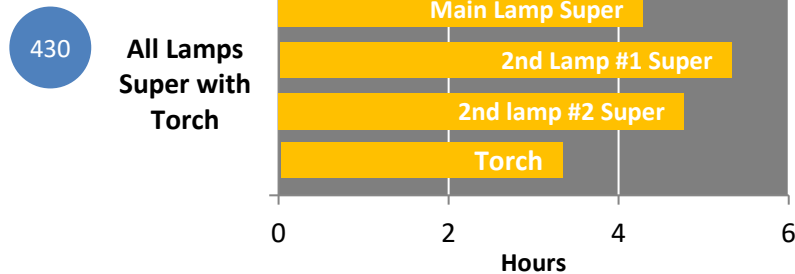Results based on test procedures detailed in
IEC 62257-9-5, ed. 2.0

Verify Online:
www.lightingglobal.org/products/mar-mb2380
Valid Until: December 31, 2018

Lumens

430 — **All Lamps Super with Torch**

Solar Run Time

- Main Lamp Super
- 2nd Lamp #1 Super
- 2nd lamp #2 Super
- Torch

Hours: 0, 2, 4, 6

✓ **Meets Lighting Global Quality Standards**

📱 **Mobile Charging**

4 **Light Points**

Warranty Information

A 2-year warranty against material or manufacturing defects.

Performance Details

Performance Measure	Brightness Setting***			
	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	December 31, 2018

Quality Standards Framework Version	2016
Revision	2016.06