

# ovBeacon MB2-290

ovSolar (Omnivoltaic Power Company Limited)

Verify Online:

[www.lightingglobal.org/products/mar-mb2290](http://www.lightingglobal.org/products/mar-mb2290)

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

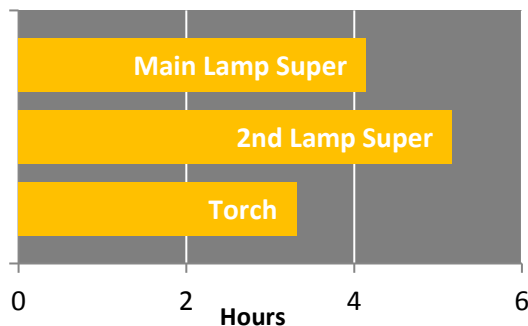
Valid Until: June 30, 2018

Lumens

Solar Run Time

330

Main Lamp and 2nd Lamp Super with Torch



Meets Lighting Global Quality Standards



Mobile Charging

3

Light Points

## Warranty Information

A 2-year warranty against material or manufacturing defects.

## Performance Details

Performance Measure	Brightness Setting***			
	Main Lamp and 2nd Lamp 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)	4.2 (Main Lamp Super) 5.7 (2nd Lamp Super) 3.6 (Torch)	--	--	--
Total light output (lumens)	210 (Main Lamp Super) 92 (2nd Lamp Super) 32 (Torch)	210	92	32
Total area with illumination > 50 lux** (m <sup>2</sup> )	--	1.1	0.13	0.2
Total lighting service (lumen-hours / solar-day)	1500	--	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 Lamp Normal, Secondary Lamp Bed Light

## Lighting Details

Lamp type	LED
Description of light points	One main lamp, one secondary lamp, 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 lamp as desk lights
LEDs	UV-free LEDs
Batteries	High-temperature batteries used
Remote	Torch acts as wireless remote to turn Main and Secondary lamp 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 MB2-290
Product model / ID number	MB2-290
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