

# ovBeacon MB2-290

ovSolar (Omnivoltaic Power Company Limited)

Verify Online:

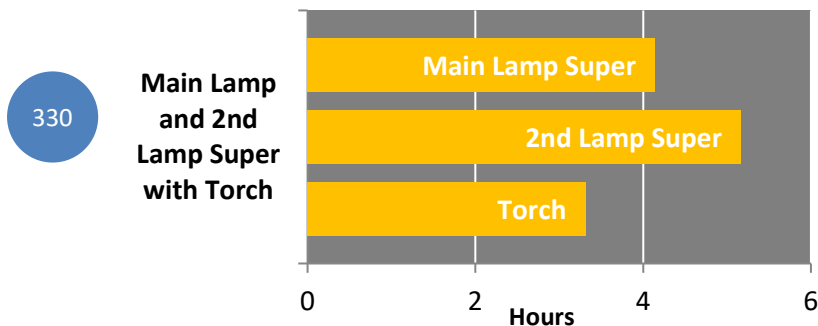
[www.lightingglobal.org/products/mar-mb2290](http://www.lightingglobal.org/products/mar-mb2290)

Results based on test procedures detailed in IEC 62257-9-5, ed 3.0

Valid Until: November 30, 2020

Lumens

Solar Run Time



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 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.

\*\* 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 "Cool" (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. Main and secondary lamp have protection from frequent rain. Met requirements with IPX1 and a warning label. Torch has protection from occasional rain. Met requirements with a warning label.

## Solar Details

PV module type	Polycrystalline silicon
PV maximum power point	3.9 watts

## Battery Details

Battery replaceability	Battery in the main and secondary lamp is easily replaceable with common tools. Torch battery is not easily replaceable.
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	November 30, 2020
Quality Standards Framework Version	2018
Revision	2018.11