

# Solar Powered Lamp

SunBell 80

Bright Products

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verify online:

<https://data.verasol.org/products/sek/bp-sunbell80>

Valid until: January 31, 2022



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

1

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

## PERFORMANCE DETAILS

			Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
included in kit	Main lighting unit	1 light point on (High) totaling 150 lumens and 1.5 W power	3.5 hours	1.6 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	0.7 full charge(s)	0.4 full charge(s)

Available daily electrical energy<sup>c</sup> (Wh/day) 4

Performance measure	Brightness setting: High
Lighting full battery run time <sup>d</sup> for main unit (hours)	5.0
Total lighting service (Lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	530

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>b</sup> Without any other loads used during the run time

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> Lighting full battery 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.

## LIGHTING DETAILS

Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
Solar Powered Lamp	1	3	High (with Lampshade)	140	97	85	5150	Wide	99%
			High (without Lampshade)	150	104	84	5100	Wide	99%

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

## PORTS

1

USB 2.0 type A



Mobile phones can be charged. Adapters are included.

## DURABILITY

Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop test, Strain relief test, Physical ingress protection.	
Level of water protection	Integrated Main Unit	Has protection from frequent rain; met IPX4
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS	
PV module type	Monocrystalline silicon
PV maximum power	1.8 watts
MAIN UNIT BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium-ion
Battery package type	18650
Battery capacity	2,3 Ah
Battery nominal voltage	3.7 V
Battery status indication	One LED indicator shows charging and discharging conditions.
MARKS AND CERTIFICATIONS	
Safety certification	RoHS 2
Other certification	CE
PRODUCT DETAILS	
Manufacturer name	Bright Products
Product name	Solar Powered Lamp
Product model / ID number	SunBell 80
Contact information	info@bright-products.com
Website	<a href="http://bright-products.com/">http://bright-products.com/</a>
Dimensions (entire product in package)	14.5 x 15 x 16 cm
Mass	640 g
SSS INFORMATION	
Specs sheet expiration date	January 31, 2022
Quality standards framework version	2021
Revision	2021.02