

Radiance Solar Lantern

Lm200
Freeplay Energy

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

Verify online:

www.lightingglobal.org/products/fe-rsl2

Valid until: April 30, 2021



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging

1

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 1-year warranty covering manufacturing defects.

PERFORMANCE DETAILS

Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
		Used alone ^b	Used in combination ^c
Main lighting unit	One light point on high; 230 lm and 2 W	2.9 hours	1.9 hours
Mobile phone	Basic phone (3.7 Wh battery)	1.1 full charge(s)	0.5 full charge(s)

Available daily electrical energy^c (Wh/day) 6

Performance measure	Brightness setting: Max
Lighting full battery run time ^d for main unit (hours)	9.4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	670

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

^b Without any other loads used during the run time

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

^d 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 ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Integrated Light	1	3	Max	230	110	86	6800	Omnidirectional	100%

^e Lumen efficacy is the power consumption at a light point during the light output test.

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

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

^h 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	Main Lighting Unit	Has protection from frequent rain; met IPX3
	PV module	Has protection from permanent outdoor exposure

SOLAR DETAILS	
PV module type	Polycrystalline silicon
PV maximum power	2 watts
BATTERY DETAILS	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium-ion
Battery package type	2 x 18650
Battery capacity	4900 Ah
Battery nominal voltage	3.7 V
Battery status indication	4 indicators show battery capacity and charging condition.
PRODUCT DETAILS	
Manufacturer name	Freeplay Energy
Product name	Radiance Solar Lantern
Product model / ID number	Lm200
Contact information	vjenkins@freeplayenergy.com
Website	www.freeplayenergy.com
Dimensions (entire product in package)	19 x 19 x 25 cm
Mass	936 g
SSS INFORMATION	
Specs sheet expiration date	April 30, 2021
Quality standards framework version	2019
Revision	2019.04