

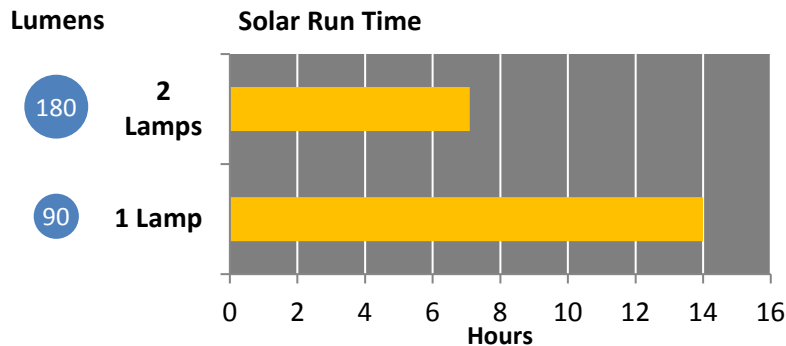
Solar Energy Centre

Freeplay Energy

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

Verify Online: www.lightingglobal.org/products/fe-sec

Valid Until: July 31, 2016



**Meets Lighting Global Minimum
Quality Standards**



Mobile Charging

2

Light Points

Warranty Information

A 1-year warranty covering manufacturing defects.

Performance Details

Performance Measure	Brightness Setting***	
	2 Lamps	1 Lamp
Full battery run time* (hours)	8.2	17
Run time per day of solar charging* (hours)	7.1	14
Total light output (lumens)	180	90
Total area with illumination > 50 lux** (m ²)	Not measured	0.02
Total lighting service (lumen-hours / solar-day)	1300	1300

* 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.

Lighting Details

Lamp type	LED
Description of light points	Two pendant lamps with 4 LEDs each
Colour characteristics	CRI 86 CCT "Cool" (5000-7000 K)
Distribution type	Omnidirectional
Lumen maintenance	100% of the original output remains after 2,000 hours run time

Special Features	
Mobile phone charging	USB socket enables mobile phone charging
Durability	
Overall durability and workmanship	Pass
Durability tests passed	Switch and connector cycling, strain relief test, physical ingress protection test, and no water ingress protection
Solar Details	
PV module type	Monocrystalline silicon
PV maximum power point	4 watts
Battery Details	
Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium-ion
Battery package type	2x 18650 cylindrical cells
Battery capacity	2100 mAh
Battery nominal voltage	7.4 V
Appropriate battery protection circuit	Pass
Marks and Certifications	
Other certification	UV-resistant plastic
Product Details	
Manufacturer name	Freeplay Energy
Product name	Solar Energy Centre
Product model / ID number	EC4
Contact information	vjenkins@freeplayenergy.com
Website	www.freeplayenergy.com
SSS Information	
Specs sheet expiration date	July 31, 2016
Minimum Quality Standards Framework Version	2014
Revision	2015.04