

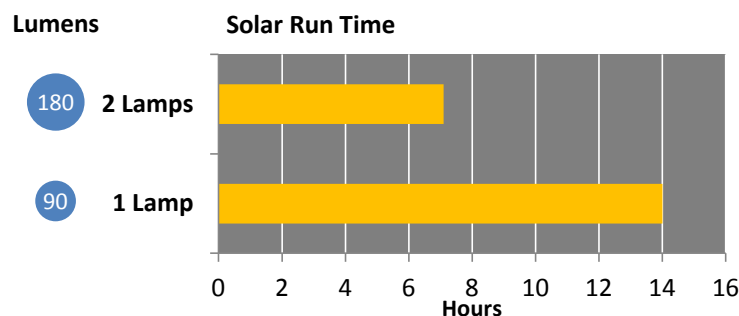
Solar Energy Centre

Freeplay Energy

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

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

Valid Until: July 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 2016 |
| Minimum Quality Standards Framework Version | 2014 |
| Revision | 2014.07 |