

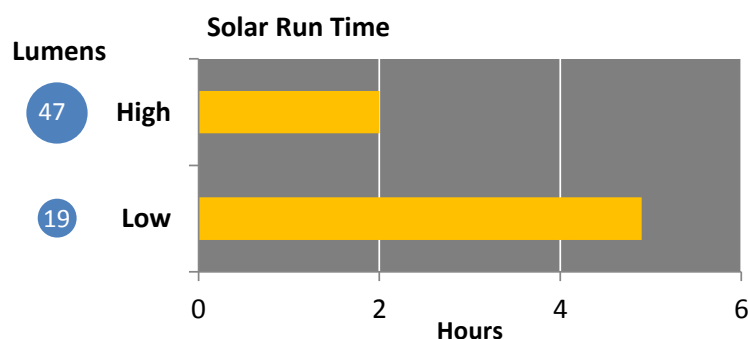
Uno 50

Niwa - Next Energy Products Ltd.

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

Verify Online: www.lightingglobal.org/products/niwa-uno50

Valid Until: March 2016



**Meets Lighting Global Minimum
Quality Standards**

1

Light Point



Warranty Information

A 24-month limited warranty.

Performance Details

Performance Measure	Brightness Setting***	
	High	Low
Full battery run time* (hours)	2.6	7.3
Run time per day of solar charging* (hours)	2.0	4.9
Total light output (lumens)	47	19
Total area with illumination > 25 lux** (m ²)	0.16	0.10
Total lighting service (lumen-hours / solar-day)	94	93

* 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 > 25 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.

*** Additional brightness settings (not tested):

Lighting Details

Lamp type	LED
Description of light points	Two LEDs
Colour characteristics	CRI 87 CCT "Cool" (5000-7000 K)
Distribution type	Wide
Lumen maintenance	98% of the original output remains after 2,000 hours run time

Special Features	
Settings	Slider to change between two brightness settings
Indicators	Charging feedback LED
Hardware	Stand included with product

Durability	
Overall durability and workmanship	Pass
Durability tests passed	Drop test, switch and connector cycling, physical ingress protection test, and protection from frequent rain

Solar Details	
PV module type	Polycrystalline silicon
PV maximum power point	0.35 watts

Battery Details	
Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Appropriate battery protection circuit	Pass
Replacement batteries are available from the product manufacturer	

Marks and Certifications	
Other certification	CE, EMC, RoHS, REACH

Product Details	
Manufacturer name	Niwa - Next Energy Products Ltd.
Product name	Uno 50
Product model / ID number	Uno 50
Contact information	sales@niwasolar.com
Website	www.niwasolar.com

SSS Information	
Specs sheet expiration date	March 2016
Minimum Quality Standards Framework Version	2014
Revision	2014.04