

X740

d.light design

Results based on test procedures detailed in
Lighting Global Solar Home System Test Method, Ed. 2.0

Verify online:

www.lightingglobal.org/products/dl-x740

Valid Until: June 30, 2019



Available Daily Electrical Energy (Wh/day)

89

Lumens

1000



Meets Lighting Global
Quality Standards



Mobile Charging

PAYG

Pay-As-You-Go Option Available

4 Light Points

3 5-volt USB Ports



3 12-volt Ports



Warranty Information

The product carries a 2-year warranty.

Performance Details

Appliance ^b	Description	Included with kit?	Power ^b (W)	Run Time After a Typical Day of Solar Charging ^a		
				Used Alone ^c	Used In Combination ^d	Run Time Units
Main lighting	3 hanging lamps and 1 tubelight	included	10	7.4	5.0	hours
Television	19" diagonal	not included	10	11	2.8	hours
Mobile Phone	Smart phone (5.7 Wh battery)	not included	--	17	1.6	number of full charges

Available daily electrical energy^d (Wh/day): 89

Performance Measure	Brightness Setting: 3 lamps and 1 tubelight on high
Lighting full battery run time ^e (hours)	7.7
Total light output in lumens ^f	1000

^a A typical day of solar charging assumes 5 kWh/m²/day

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

^c Without any other loads used during the run time

^d Based on an example use profile with all of the appliances listed above used in combination

^e 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.

^f 1 candle or kerosene wick lamp = approximately 10 lumens

Lighting Details

Lamp Name	Type	Number of Settings	Light Output (lm)	Lumen Efficacy (lm/W)	CRI ^g	CCT ^h	Distribution Type	Lumen Maintenance ⁱ
Hanging Lamp	LED	unlimited, dimmable	200	110	85	Cool (5000-7000 K)	Wide	>101%
Tube Light	LED	unlimited, dimmable	410	110	85	Cool (5000-7000 K)	Wide	>101%

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

^h Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, near daylight, or cool.

ⁱ Percent of the original light output that remains after 2,000 hours of run time

Special Features

Mobile charging and appliances	USB and 12 V ports available to charge devices and power appliances
Pay-as-you-go	PAYG-enabled

Durability

Overall durability and workmanship	Pass
Durability tests passed	Switch and connector cycling, strain relief test, physical ingress protection test. Water ingress protection not tested; meant for indoor use only.

Solar Details

PV module type	Polycrystalline silicon
PV maximum power	29 watts

Battery Details

Battery replaceability	Not easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Battery package type	4x IFR 26650
Battery capacity	6 Ah
Battery nominal voltage	12.8 V
Battery Status Indication	One display shows the charging battery level and lock status.

Marks and Certifications

Factory certification	ISO 9001:2008; ISO 14001:2004
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Product Details

Manufacturer name	d.light design
Product name	X740
Product model / ID number	X740
Contact information	testing@dlight.com
Website	www.dlight.com
Dimensions (entire product in package)	38.2 cm x 28.2 cm x 13.5 cm; PV Module:67 cm x 35 cm
Weight	5745 g

SSS Information

Specs sheet expiration date	June 30, 2019
Quality Standards Framework Version	2017
Revision	2017.06