ZOLUNA

SOLAR CHARGED. MOON READY

DUTCH DESIGN · SOLAR LIGHTING



USER MANUAL

MOOS

Solar table lamp with touch dimmer

MODEL TL-0003 | BROWN | EN · 2027



WELCOME

Woven warmth for the table.

Thank you for choosing MOOS. A woven shade on a slim metal stem, with a solar light module that charges in the sun or via USB. Touch to dim in three steps, or let MOOS switch on by itself at dusk.

Please read this manual before use and keep it for future reference. You can always find the latest version via the QR code in your box or at **www.zoluna.nl**.

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READ THIS FIRST

Before you start

MOOS is a battery powered light. It is safe, low voltage and easy to use, as long as you keep the points below in mind.

SAFETY

- Do not use the light if the housing, shade or solar panel is damaged.
- Do not open the LED module or the solar panel. Only the battery compartment may be opened by the user.
- Use only an 18650 Li-ion cell, 3.7 V, of the same type as supplied. Never use non rechargeable batteries.
- Do not short circuit, puncture, heat or burn the battery, and keep it away from fire.
- Charge via USB indoors only, with a 5 V ⎓ 1 A adapter. Never charge in the rain or with a damaged cable.
- Keep the battery and small parts away from children and pets.
- Do not modify the product. Any modification voids the warranty.

GOOD TO KNOW

- Suitable for outdoor use. Splash proof to IP44: protected against rain and splashing water. Bring it inside during heavy weather.
- Works between −20 °C and +50 °C.
- The LED cannot be replaced. The battery can.
- Charges by sunlight and, if you wish, via USB (cable included).

Charge before first use. Charge MOOS fully once via USB (about 4 hours), or let it charge in direct sunlight for 1 to 2 sunny days, before judging its runtime.

YOU WILL NEED

Nothing: MOOS assembles by hand.

TIME

About 3 minutes to assemble. 4 hours for a full USB charge.

QUESTIONS?

info@zoluna.nl
www.zoluna.nl



UNBOXING

What's in the box

1 ×
Woven shade

1 ×
Solar light module with battery

1 + 1
Stem and base

1 ×
USB charging cable

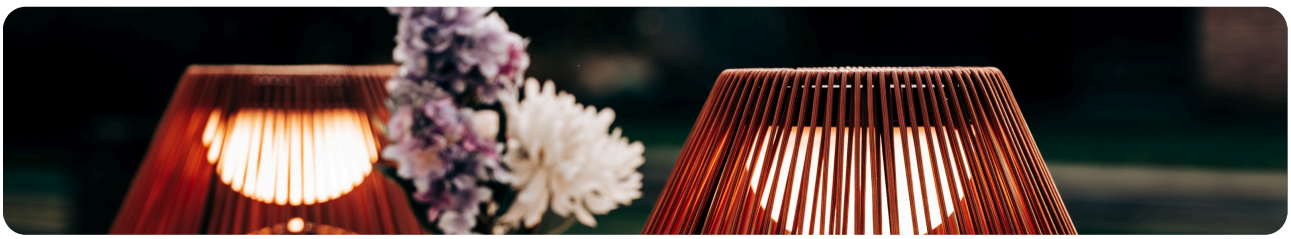
Not included: USB power adapter.

Product overview



1 Solar light module	On top of the shade: 0.9 W solar panel, LED and battery.
2 Touch switch	On the module: 10 % → 50 % → 100 % → off.
3 Twilight switch	On the module: 0 = manual, 1 = automatic on at dusk.
4 USB port	On the module, input 5 V ⎓ 1 A.
5 Shade, stem & base	Woven shade on a powder coated metal stem and base.

With the twilight switch on 1, MOOS switches on by itself when it gets dark (below about 50 lux).



BEFORE YOU START

Choosing the right spot

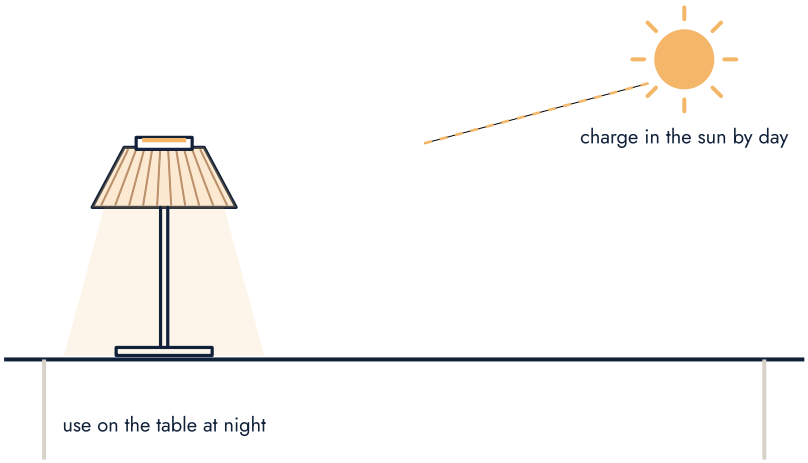
Where you place MOOS decides how well it performs. The solar panel needs daylight.

FOR THE BEST CHARGE

- By day, put MOOS in a sunny spot: 6 hours or more of direct sun on the module gives the best charge.
- Indoors behind glass the panel charges much less.
- On grey days or in winter, charge via USB.

AT THE TABLE

- Place MOOS on a stable, level surface.
- Keep it out of reach of small children and pets.
- Bring it inside during storms or heavy rain.

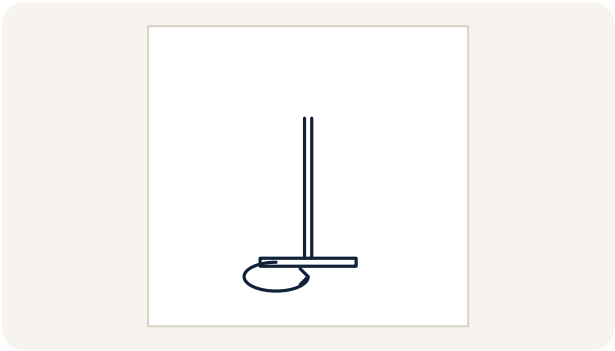




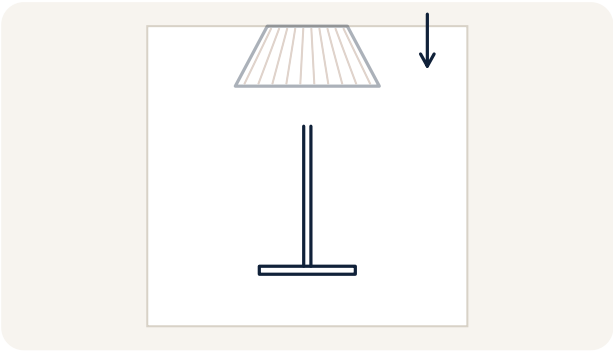


STEP BY STEP

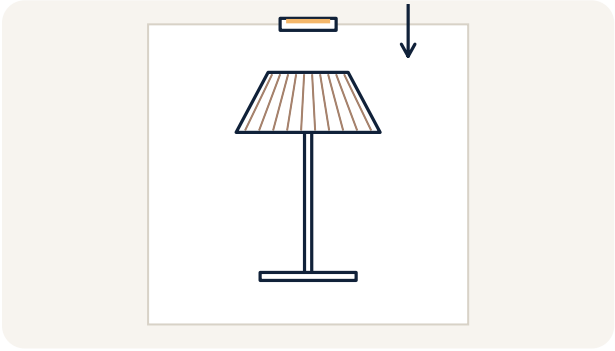
Assembly & first use



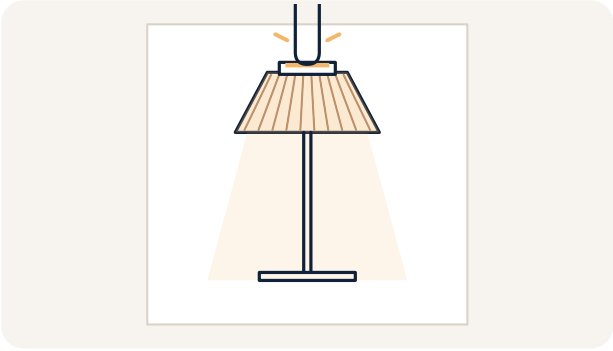
1 **Fit the stem**
Screw the stem into the base until it sits firmly.



2 **Fit the shade**
Place the woven shade on top of the stem.



3 **Insert the light module**
Place the solar light module in the opening on top of the shade.



4 **Switch on**
Touch the switch on the module: 10 % → 50 % → 100 % → off.

OPERATION

Touch dimming & twilight switch

The light module has a **touch switch** and a small **twilight switch** (0 / 1). Choose how you want MOOS to work:

TOUCH 1 × **10 %**		A soft glow. Up to about 30 h on a full battery.*
TOUCH 2 × **50 %**		Cosy table light.
TOUCH 3 × **100 % · 360 lm**		Bright light. About 4 h on a full battery.*
TOUCH 4 × **Off**		The light switches off.

* Typical values with a fully charged battery.

TWILIGHT SWITCH ON 0

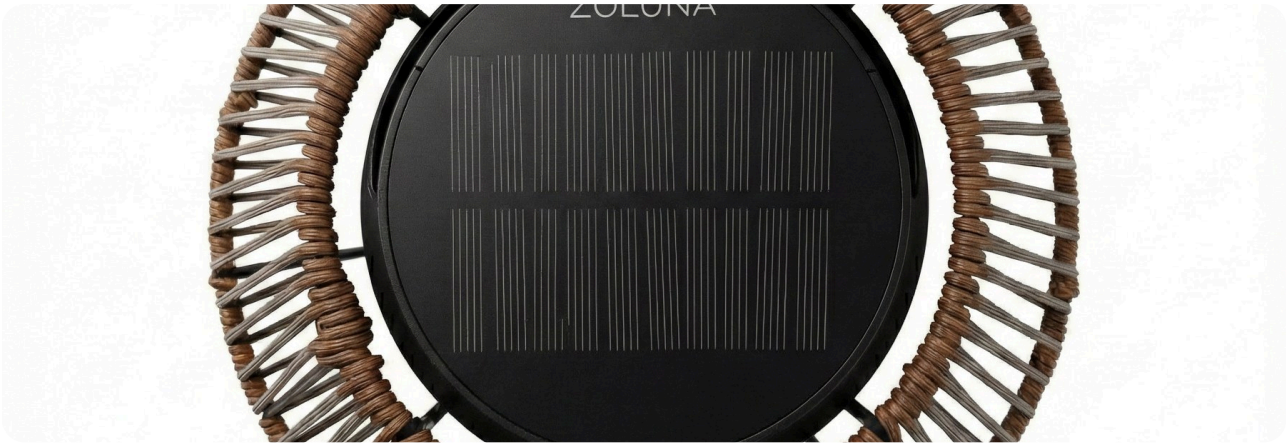
Manual: MOOS lights only when you touch the switch.

TWILIGHT SWITCH ON 1

Automatic: MOOS switches on at dusk (below about 50 lux) and stays on until the battery is empty or you touch it off.

ENERGY

Charging: solar & USB



SOLAR CHARGING

The 0.9 W monocrystalline solar panel on top of the light module charges the battery whenever there is daylight. A full charge takes about 8 hours of direct sun.

On cloudy days the panel still charges, but more slowly. After several grey days in a row the runtime will be shorter.

SEASONS

In autumn and winter the sun is weaker. Charge MOOS via USB for full evenings of light.

USB CHARGING

- Connect the supplied USB cable to the port on the light module and to a 5 V ⎓ 1 A adapter (not included).
- A full charge takes about 4 hours.
- Charge indoors and keep the port dry.

GETTING THE MOST FROM YOUR BATTERY

- Keep the solar panel clean and free of dust, snow and leaves.
- Storing MOOS for a long time? Switch it off and store it charged, in a dry place between 10 and 25 °C. Recharge every 3 months.
- Battery capacity naturally decreases over time; typically after 2 to 3 years the runtime becomes noticeably shorter.

USB	8 h	30 h	360 lm
4 h full charge	full charge by sun	max. runtime (10 %)	warm white 2700 K

MAINTENANCE

The battery

MOOS's battery is replaceable, so a tired battery never means a new light.

HOW TO REPLACE IT

The 18650 battery in the light module can be replaced. Contact ZOLUNA customer service via info@zoluna.nl for a replacement battery and the step by step instructions for MOOS.



REPLACEMENT BATTERY

Type	18650 rechargeable Li-ion cell
Voltage	3.7 V
Capacity	2000 mAh (7.4 Wh)
Where to buy	ZOLUNA customer service

IMPORTANT

- Never use non rechargeable batteries or a different battery type.
- Replace the battery in a dry place, never in the rain.
- Hand in the old battery at a battery collection point, never with household waste.



LOOKING AFTER MOOS

Care & maintenance

- Dust the woven shade with a soft brush; wipe the module, stem and base with a soft, damp cloth.
- Do not use abrasives or solvents, and never spray with water.
- Brush off dust and leaves so the panel keeps charging.
- Bring MOOS inside during storms, heavy rain and long frost periods.



SOMETHING NOT RIGHT?

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Light does not switch on	Battery empty	Charge via USB for about 4 hours.
	Touch too short	Touch the switch briefly but firmly.
Does not switch on at dusk	Twilight switch on 0	Set the twilight switch to 1.
Short runtime	High level	Use 10 % or 50 %: it lasts much longer.
	Too little sun	Charge via USB.
Lamp wobbles	Not screwed tight	Tighten the stem in the base by hand.

Still not working? Contact us at **info@zoluna.nl** with your order number and a photo or short video. We're happy to help.

IN DETAIL

Technical specifications

Model / SKU	TL-0003-RT Brown
Dimensions	Ø 260 × 360 mm
Weight	920 g
Material	Powder coated iron, woven shade, ABS, PC
Protection	IP44: splash proof
Operating temperature	–20 °C to +50 °C
Light source	SMD LED, max. 360 lm, 2700 K warm white, CRI 80
LED	25,000 hours · not replaceable · 3 step dimmable
Energy class	Light source: class G · EPREL 87.402.25.06485-00
Solar panel	Monocrystalline, 5 V / 0.9 W, 105 × 105 mm
Battery	18650 Li-ion, 3.7 V, 2000 mAh, 7.4 Wh · replaceable
Charging	Solar ≈ 8 h · USB 5 V ⎓ 1 A ≈ 4 h (cable included)
Runtime	≈ 4 h (100 %) to ≈ 30 h (10 %)
Control	Touch switch (3 steps) · twilight switch
Warranty	2 years (battery excluded, see page 12)



BROWN

GOOD TO KNOW

Disposal, warranty & contact

DISPOSAL & RECYCLING

This symbol means the light and its battery must not be thrown away with household waste. Take the light to a collection point for electrical and electronic equipment (WEEE), for example your municipal recycling centre or a retailer that takes back old appliances.

Remove the battery first (page 09) and hand it in separately at a battery collection point. Batteries contain materials that can harm health and the environment and that can be recovered. Tape the battery terminals before disposal to prevent short circuits.

SYMBOLS & CONFORMITY

All symbols, safety markings and certifications of MOOS are explained on page 13.

WARRANTY

ZOLUNA gives a 2 year warranty on MOOS against manufacturing and material defects, from the date of purchase. Keep your proof of purchase.

The rechargeable battery is a wear part and is not covered by this warranty, nor is damage caused by incorrect installation, improper use, modifications, accidents or normal wear. This warranty does not affect your statutory rights as a consumer.

To make a claim, contact the store where you bought MOOS or email info@zoluna.nl with your order number and a description or photo of the problem.

MANUFACTURER / IMPORTER

ZOLUNA · Nooteboom Ventures B.V.
Jan Frederik Vlekkeweg 12
5056 RJ Tilburg, the Netherlands
info@zoluna.nl · www.zoluna.nl

MOOS · TL-0003 · Made in China







Symbols, safety & compliance

CE marking
Complies with the applicable EU health, safety and environmental legislation.

Battery collection
Hand in batteries separately at a battery collection point.

IP44
Splash proof: protected against rain and splashing water. Do not spray with a hose and do not immerse.

Read the manual
Read all instructions before installation and use, and keep them for later.

Temperature range
Use between –20 °C and +50 °C. Store the battery between 10 °C and 25 °C.

Replaceable battery
The 18650 Li-ion battery can be replaced (see page 09).

USB input 5 V ⎓ 1 A
Charge indoors only, with a 5 V ⎓ 1 A USB adapter (adapter not included).

WEEE
Do not dispose of with household waste. Hand in at a collection point for electrical equipment.

Triman (France)
This product and its packaging are subject to sorting rules for recycling.

Protection class III
Safety extra low voltage: powered by a 3.7 V battery. No mains connection.

Do not stare into the light
Tested to EN 62471: risk group 0, exempt. Still, avoid looking directly into the LED at close range.

No fire
Do not heat, burn or short circuit the battery, and do not throw it into a fire.

LED not replaceable
The LED light source is integrated and cannot be replaced by the user or a professional.

Solar powered
Charges by daylight through the integrated monocrystalline solar panel.

DECLARATION OF CONFORMITY

ZOLUNA declares that MOOS (TL-0003) complies with the EU legislation listed below. The full EU declaration of conformity is available on request via info@zoluna.nl. Light source: LED, integrated, not replaceable, energy class G (EPREL 87.402.25.06485-00). Battery: 18650 Li-ion, 3.7 V, 2000 mAh, replaceable.

EMC Directive **2014/30/EU**	RoHS Directive **2011/65/EU + (EU) 2015/863**	Battery Regulation **(EU) 2023/1542**
REACH **(EC) 1907/2006**	Ecodesign of light sources **(EU) 2019/2020 · class G**	General Product Safety **(EU) 2023/988**
WEEE Directive **2012/19/EU**	Photobiological safety **EN 62471 · RG0**	Lithium battery transport **UN 38.3**



ZOLUNA

SOLAR CHARGED, MOON READY

Dutch design. High quality solar lighting.
Made to last, season after season.