ZOLUNA

SOLAR CHARGED. MOON READY

DUTCH DESIGN · SOLAR LIGHTING



USER MANUAL

LUCA

Solar lantern · LUCA & LUCA GRANDE

MODEL FL-0002

LIGHT OAK · DEEP COAL

EN · 2027



WELCOME

Lantern light for long evenings.

Thank you for choosing LUCA. This woven solar lantern comes in two sizes, LUCA and LUCA GRANDE. The detachable solar unit charges by sun or USB-C and gives three levels of warm light.

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**.

CONTENTS

Before you start	03
What's in the box & product overview	04
Choosing the right spot	05
Assembly & first use	06
Switching on & the 3 light levels	07
Charging: solar & USB	08
The battery	09
Care, maintenance & troubleshooting	10
Technical specifications	11
Disposal, warranty & contact	12
Symbols, safety & compliance	13

READ THIS FIRST

Before you start

LUCA 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, lantern 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 and in winter (below 0 °C).
- Works between 0 °C and +40 °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 the solar unit fully once via USB-C, or let it charge in direct sunlight for 1 to 2 sunny days, before judging its runtime.

YOU WILL NEED

Nothing: LUCA is ready to use.

TIME

Ready to use. Allow a full charge before the first evening.

QUESTIONS?

info@zoluna.nl
www.zoluna.nl



UNBOXING

What's in the box

1 ×
Lantern (LUCA or LUCA GRANDE)

1 ×
Detachable solar unit with LED and battery

1 ×
USB-C cable

1 ×
Manual

Not included: USB power adapter.

Product overview



1 Solar unit	Detachable top with 1.4 W solar panel, LED and battery.
2 Button	On the solar unit: on, 3 levels and off.
3 USB-C port	On the side of the solar unit.
4 Lantern	Woven body; LUCA 22 cm, LUCA GRANDE 50 cm high.
5 LED	Warm white 2700 K, up to 330 lm.

LUCA is switched on and off by hand with the button on the solar unit.



BEFORE YOU START

Choosing the right spot

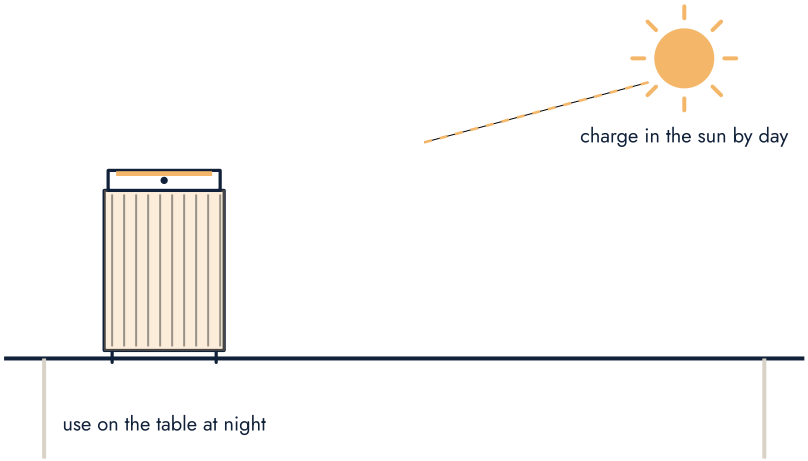
Where you place LUCA decides how well it performs. The solar panel needs daylight.

FOR THE BEST CHARGE

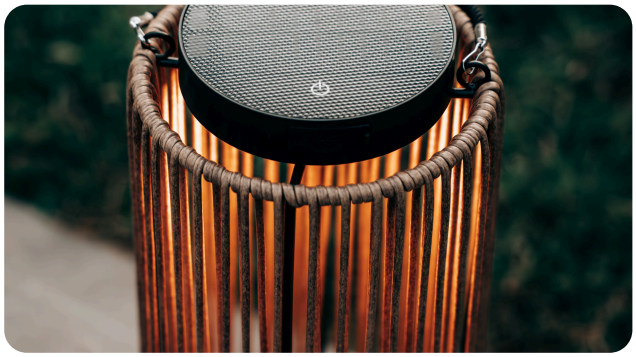
- By day, place LUCA where the top gets 6 hours or more of direct sun.
- You can also take the solar unit off and lay it in the sun.
- On grey days or in winter, charge via USB-C.

INDOORS & OUTDOORS

- Use LUCA on the terrace, the table or the floor, on a level surface.
- Bring it inside in heavy rain, storms and in winter (below 0 °C).
- Keep it out of reach of small children and pets.

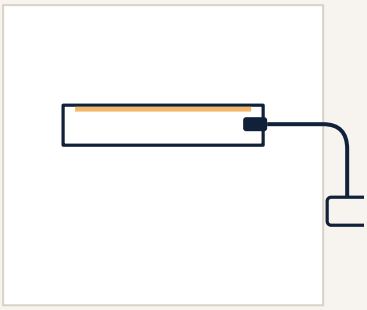






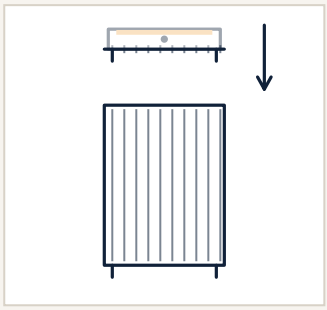
STEP BY STEP

Assembly & first use



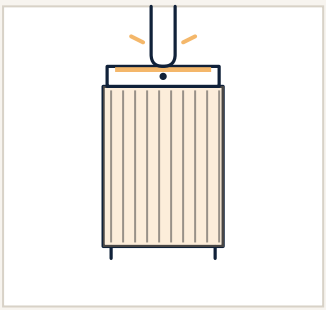
1 **Charge before first use**

Charge the solar unit fully via the supplied USB-C cable, or 1 to 2 sunny days in the sun.



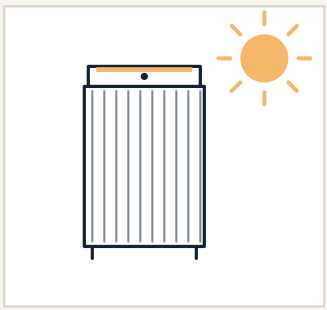
2 **Place the solar unit**

Place the solar unit on top of the lantern so it sits firmly in the opening.



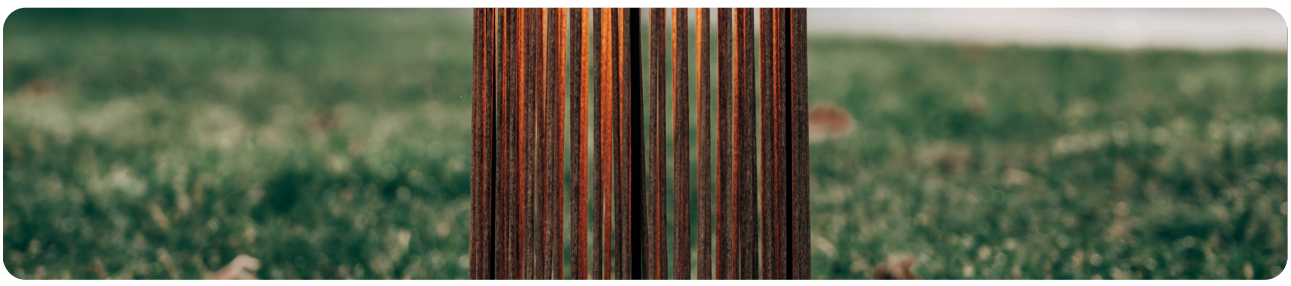
3 **Switch on**

Press the button on the solar unit: each press goes to the next level: 35, 140, 330 lm, then off.



4 **Charge by day**

By day, put LUCA in the sun so the panel on top can charge. Switch it off to charge fastest.



OPERATION

Switching on & the 3 light levels

Press the button on top of the solar unit to switch on and to step through the light levels. After the third level the next press switches LUCA off.

PRESS 1 ×

Mode A · 35 lm

A soft glow. Up to about 30 h on a full battery.*

PRESS 2 ×

Mode B · 140 lm

Cosy lantern light.

PRESS 3 ×

Mode C · 330 lm



Bright light. About 4 h on a full battery.*

PRESS 4 ×

Off

The light switches off.

* Typical values with a fully charged battery.

ENERGY

Charging: solar & USB



SOLAR CHARGING

The 1.4 W monocrystalline solar panel (Ø 122 mm) in the solar unit charges the batteries whenever there is daylight. A full charge takes about 6 to 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 and LUCA should stay indoors below 0 °C. Charge it via USB-C instead.

USB CHARGING

- Connect the supplied USB-C cable to the port on the solar unit and to a 5 V ⎓ 1 A adapter (not included).
- Charge indoors and keep the port dry.
- Disconnect when fully charged.

GETTING THE MOST FROM YOUR BATTERY

- Keep the solar panel clean and free of dust, snow and leaves.
- Storing LUCA 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.

1.4 W	6 to 8 h	30 h	330 lm
mono solar panel	full charge by sun	max. runtime (mode A)	max. light output

MAINTENANCE

The battery

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

HOW TO REPLACE IT

The two 18650 batteries in the solar unit can be replaced. Contact ZOLUNA customer service via info@zoluna.nl for replacement batteries and the step by step instructions for LUCA.



REPLACEMENT BATTERY

Type	2 × 18650 rechargeable Li-ion cells
Voltage	3.7 V
Capacity	2 × 2000 mAh (14.8 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 LUCA

Care & maintenance

- Dust the woven lantern with a soft brush; wipe the solar unit with a soft, damp cloth.
- Do not use abrasives or solvents, and never spray with water.
- Bring LUCA inside during storms, heavy rain and in winter.



SOMETHING NOT RIGHT?

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Light does not switch on	Battery empty	Charge the solar unit via USB-C.
	Solar unit not seated	Place the solar unit firmly on the lantern.
Short runtime	Highest level	Use mode A or B.
	Too little sun / cold	Charge via USB-C; keep LUCA inside below 0 °C.

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	LUCA FL-0002-WD Light Oak · -BL Deep Coal · LUCA GRANDE FL-0002-WDXL · -BLXL
Dimensions	LUCA Ø 182 × 220 mm · GRANDE Ø 182 × 500 mm
Weight	LUCA 687 g · GRANDE 1,087 g
Material	Iron, PC, ABS, PE weave
Protection	IP44: splash proof
Operating temperature	0 °C to +40 °C
Light source	SMD LED, 35 / 140 / 330 lm, 2700 K, CRI 80
LED lifetime	30,000 hours · LED not replaceable
Solar panel	Monocrystalline, 5 V / 1.4 W, Ø 122 mm
Battery	2 × 18650 Li-ion, 3.7 V, 2 × 2000 mAh, 14.8 Wh · replaceable
Charging	Solar 6 to 8 h · USB-C (cable included)
Runtime	≈ 4 h (high) to ≈ 30 h (low)
Control	Push button: 3 levels and off
Warranty	2 years (battery excluded, see page 12)



LIGHT OAK DEEP COAL

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 LUCA are explained on page 13.

WARRANTY

ZOLUNA gives a 2 year warranty on LUCA 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 LUCA 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

LUCA · FL-0002 · 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 0 °C and +40 °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
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 LUCA (FL-0002) 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. Battery: 2 × 18650 Li-ion, 3.7 V, replaceable.

EMC Directive 2014/30/EU	RoHS Directive 2011/65/EU + (EU) 2015/863	Battery Regulation (EU) 2023/1542
General Product Safety (EU) 2023/988	WEEE Directive 2012/19/EU	Lithium battery transport UN 38.3



ZOLUNA

SOLAR CHARGED, MOON READY

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