ZOLUNA

SOLAR CHARGED. MOON READY

DUTCH DESIGN · SOLAR LIGHTING



USER MANUAL

OLIVIA

Solar spike light & solar wall light with motion sensor

SPIKE SL-0003 · WALL WL-0006

BLACK · BROWN

EN · 2027



WELCOME

One design, two ways to shine.

Thank you for choosing OLIVIA. The same powder coated aluminium head comes as a spike light for your garden and as a wall light for your facade. It charges by day, switches on at dusk and needs no cables or electrician.

This manual covers both versions. Where they differ, look for **Spike light** or **Wall light**. 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

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

SAFETY

- Do not open the LED module or the solar panel. Only the panel on the underside of the back block may be opened by the user.
- Do not use the light if the housing, diffuser or solar panel is damaged.
- 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 and water.
- 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

- For outdoor use. Splash proof to IP44: protected against rain and splashing water. Do not spray with a garden hose or pressure washer, and do not place it where water collects.
- 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 not included).

> **Charge before first use.** The battery is shipped partly charged for safe transport. Charge it fully once via USB (about 4 hours), or let it charge in direct sunlight for 1 to 2 sunny days, before judging its runtime.

SPIKE LIGHT

In soft ground no tools are needed. For a fixed base: drill with 4.5 mm bit, Phillips screwdriver, pencil.

WALL LIGHT

Drill with 4.5 mm bit, Phillips screwdriver, pencil, spirit level.

QUESTIONS?

info@zoluna.nl
www.zoluna.nl



UNBOXING

What's in the box

SPIKE LIGHT · SL-0003

1 × lamp head with integrated battery
1 × pole with base
2 × ground spikes (stored upside down in the lamp, see page 06)
4 × screws and 4 × wall plugs (for a fixed base)

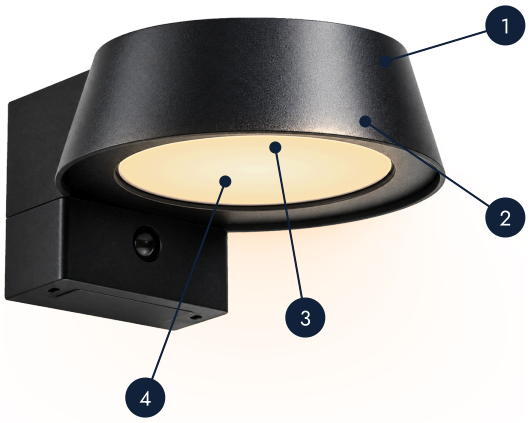
WALL LIGHT · WL-0006

1 × wall light with integrated battery
1 × wall bracket
3 × screws
3 × wall plugs

Not included: USB cable and Ø 4.5 mm drill bit.

Product overview





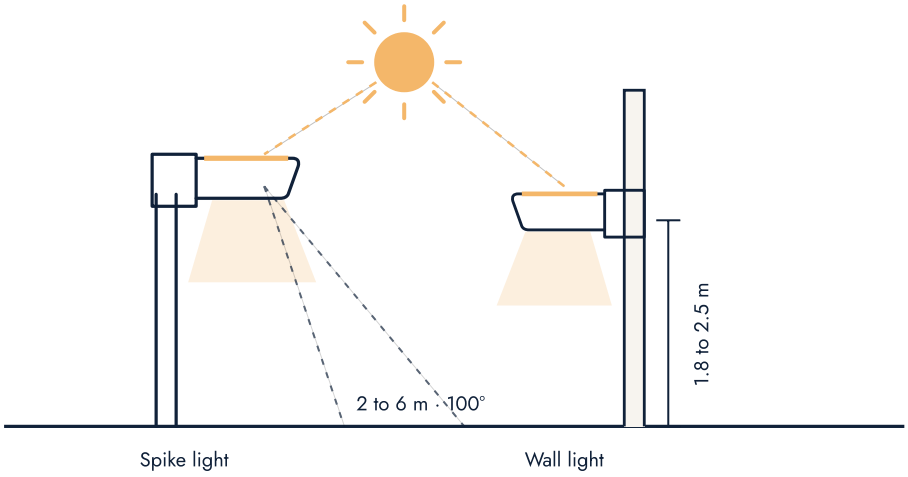
1 Solar panel	On top of the head. Charges the battery during the day.
2 LED & opal diffuser	Warm white 2700 K, 400 lm downlight.
3 Motion sensor (PIR)	Detects movement at 2 to 6 m in a 100° angle.
4 Switch panel	ON/OFF switch, mode switch and USB port, on the underside of the back block.

Integrated light sensor: OLIVIA switches on automatically when it gets dark (below about 50 lux) and off at dawn.

BEFORE YOU INSTALL

Choosing the right spot

Where you place OLIVIA decides how well it performs. The solar panel needs daylight; the motion sensor needs a clear view.



FOR THE BEST CHARGE

- Choose a spot with at least 6 hours of direct sunlight a day, ideally facing south, southwest or southeast.
- Avoid shade from trees, shrubs, roof overhangs and fences. Even partial shade on the panel noticeably reduces charging.
- Keep the panel clean and unobstructed.

FOR RELIABLE DETECTION

- The sensor detects movement at 2 to 6 m in a 100° angle. Aim it at the path or entrance where people approach.
- Wall light: mount at 1.8 to 2.5 m height.
- Keep away from street lights and other lamps: at night they can make OLIVIA think it is still day.
- Avoid pointing at roads, swaying plants or heat sources to prevent false triggers.





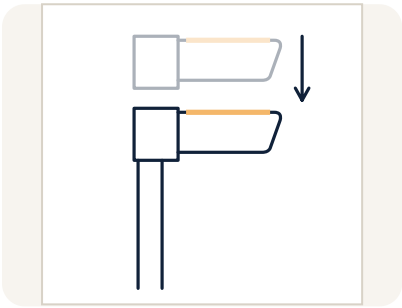
STEP BY STEP

Installation: spike light

! **Where are the ground spikes?** They are not loose in the box. To save space, the 2 spikes are stored **upside down in the lamp**. Pull them out, turn them around and push them back in, with the point facing down.

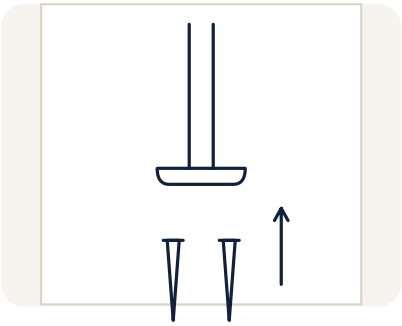
A In the ground

lawn, border, soft soil



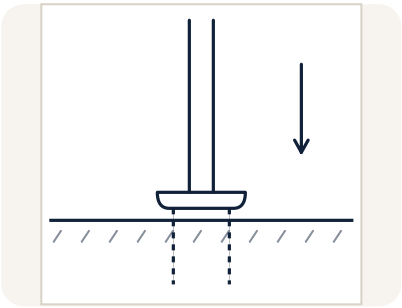
1 Fit the head

Place the lamp head onto the top of the pole and press it down until it sits firmly.



2 Turn the spikes around

The 2 ground spikes are stored upside down in the lamp. Pull them out, turn them around and push them back in, point facing down.

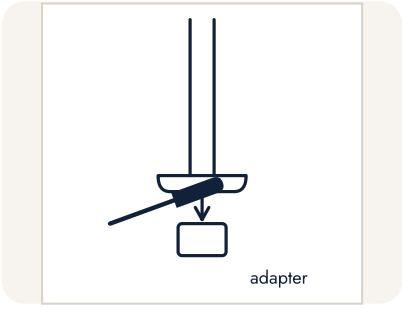


3 Place in the ground

Push the light straight into soft soil by pressing on the base, never on the head. In hard soil, water the spot first.

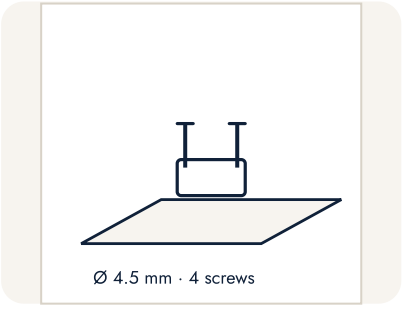
B On a hard surface

decking, paving, concrete · optional



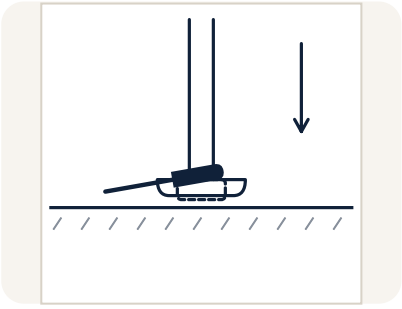
1 Remove the adapter

Loosen the screw on the side of the base and pull the mounting adapter out from underneath.



2 Fix the adapter

Hold the adapter on decking or paving, mark and drill 4.5 mm holes, insert the plugs and fix it with the 4 screws.



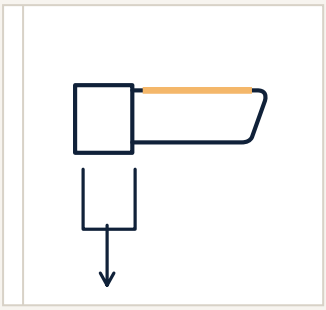
3 Fit the light

Slide the pole down over the adapter and tighten the side screw again.

> Then switch the light on and choose a mode (page 08). The switches are on the underside of the head: lift the head off the pole to reach them.

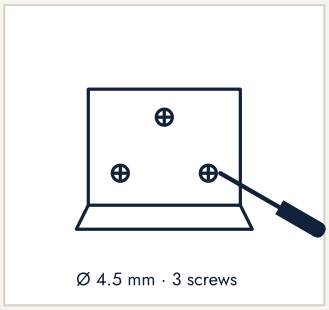
STEP BY STEP

Installation: wall light



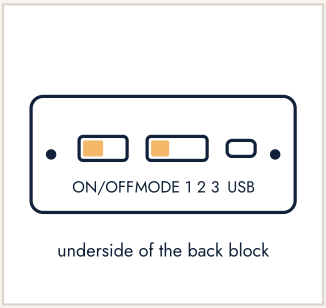
1 **Remove the bracket**

Slide the wall bracket downwards out of the back of the light.



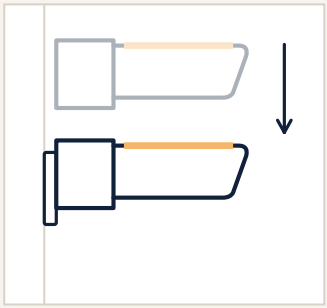
2 **Fix the bracket**

Hold the bracket level against the wall and mark the holes. Drill 4.5 mm holes, insert the plugs and fix it with the 3 screws.



3 **Switch on**

Set the ON/OFF switch on the underside to ON and choose a mode (page 08).



4 **Hang the light**

Slide the light onto the bracket from above until it sits firmly, solar panel facing up.

MIND THE FIXINGS

The supplied plugs are for solid stone and brick. For wood, drill 2.5 mm pilot holes without plugs. For hollow walls or cladding, use fixings suited to that surface.

Always mount the light with the solar panel facing up. Mounted upside down it cannot charge, and water can collect.



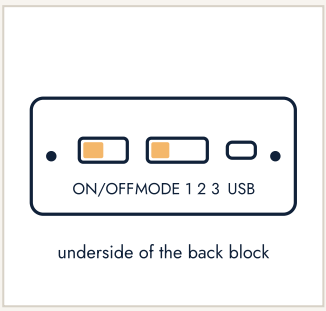
OPERATION

Switching on & the 3 light modes

OLIVIA has two switches and a USB port in a small panel on the underside of the back block.

Spike light: lift the head off the pole to reach them. **Wall light:** they are on the underside, under the light.

Set the **ON/OFF switch** to ON, then choose a mode with the **MODE switch**. Put the head back on the pole afterwards.



underside of the back block

MODE 1

Dim + motion boost



10 % light all night; switches to 100 % when motion is detected, then back to 10 %.

MODE 2

Motion only



Off until motion is detected, then 100 % for a short time. Saves the most energy.

MODE 3

Constant dim light

10 % light from dusk to dawn: a calm, all night glow. Up to about 24 h on a full battery.*

* Typical value with a fully charged battery at about 20 °C. Actual runtime depends on sunlight, season, temperature and battery age.

DUSK TO DAWN

In every mode OLIVIA only lights up when it is dark. During the day it stays off and charges. To test it in daylight, cover the solar panel with your hand or a cloth.

WHICH MODE SUITS ME?

Front door or path: **Mode 1**, a soft glow with full light when you arrive. Side entrance or shed: **Mode 2**. Garden border ambience: **Mode 3**.

ENERGY

Charging: solar & USB



SOLAR CHARGING

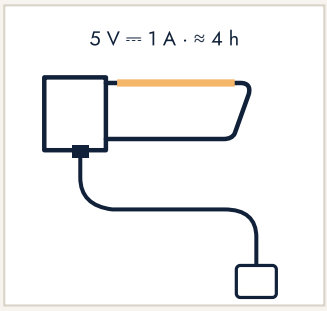
The 1.25 W monocrystalline solar panel charges the battery whenever there is daylight, also when the light is switched off. A full charge takes about 8 hours of direct sun.

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

SEASONS

In winter there is less sun and the nights are long. Use **Mode 1 or 2** from November to February, or top up the battery via USB now and then.

USB CHARGING



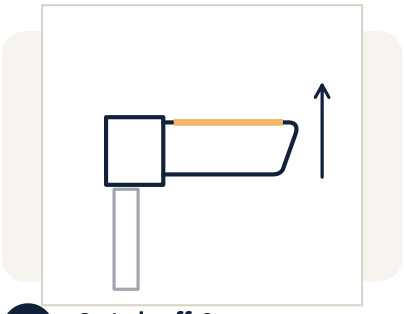
- Remove the head from the pole, or the wall light from its bracket, and take it indoors.
- Connect a USB cable (not included) to the USB port in the switch panel and to a 5 V ⎓ 1 A adapter.
- A full charge takes about 4 hours. Disconnect, close the panel and put the light back.

1.25 W	8 h	4 h	24 h
mono solar panel	full charge by sun	full charge via USB	max. runtime (mode 3)

MAINTENANCE

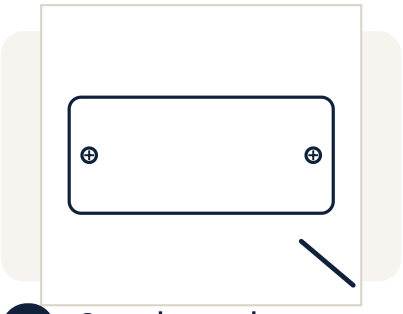
Replacing the battery

OLIVIA's battery is replaceable by yourself, so a tired battery never means a new light.



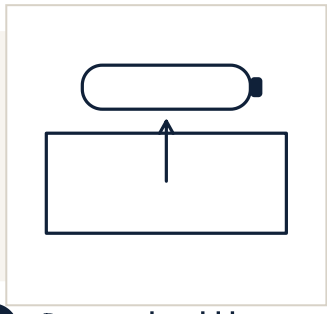
1 Switch off & remove

Set the switch to OFF. Lift the head off the pole, or the wall light off its bracket.



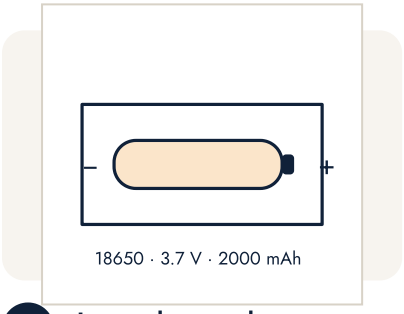
2 Open the panel

Lay the light on a soft cloth. Remove the 2 screws of the panel on the underside of the back block with a small Phillips screwdriver.



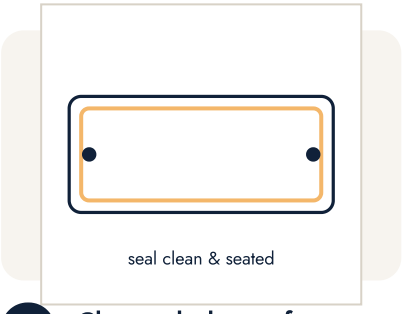
3 Remove the old battery

Carefully take the old 18650 cell out of its holder. Do not use metal tools to lever it out.



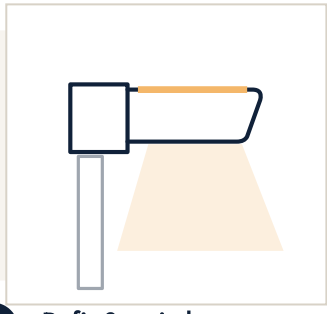
4 Insert the new battery

Insert a new 18650 Li-ion cell (3.7 V, at least 2000 mAh). Match + and – with the markings in the holder.



5 Close splash proof

Check that the seal is clean and seated, then refit the panel and screws evenly.



6 Refit & switch on

Put the light back, set the switch to ON and let it charge before use.

REPLACEMENT BATTERY

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

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 OLIVIA

Care & maintenance

- Clean the housing, diffuser and solar panel a few times a year with a soft, damp cloth. Do not use abrasives, solvents, a garden hose or a pressure washer.
- The aluminium is powder coated. Coastal air, fertiliser and lawn treatments can affect the finish: wipe it down regularly.
- Brush off snow and leaves, and trim plants that grow over the panel.
- Check once a year that the light is still firmly fixed.



SOMETHING NOT RIGHT?

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Light does not switch on at night	Switch set to OFF	Set the ON/OFF switch to ON.
	Battery empty	Charge via USB, or 1 to 2 sunny days in the sun.
	Other light source nearby	Move OLIVIA away from street lights or other lamps.
Short runtime	Too little sun / winter	Choose a sunnier spot, Mode 1 or 2, or charge via USB.
	Dirty solar panel	Clean the panel with a damp cloth.
	Battery aged	Replace the battery (page 10).
Light switches on randomly	Sensor sees moving plants, cars or heat	Turn or move the light.
Motion sensor does not react	Mode 3 selected or too far away	Select Mode 1 or 2; approach within 2 to 6 m.
Spike light leans	Soft or loose soil	Press the soil around the spikes firmly, or use the fixed base.
Water inside	Panel not closed or sprayed with water	Dry the light indoors, check the seal; never use a hose.

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

	SPIKE LIGHT	WALL LIGHT
Model / SKU	SL-0003-BL Black · SL-0003-BR Brown	WL-0006-BL Black · WL-0006-BR Brown
Dimensions	138 × 160 × 563 mm	138 × 160.5 × 77 mm
Weight	610 g	320 g
Mounting	Ground spikes or fixed base (4 screws)	Wall bracket (3 screws)
Material	Powder coated aluminium, iron, ABS, PC	
Protection	IP44: splash proof	
Operating temperature	–20 °C to +50 °C	
Light source	SMD LED, 400 lm, 2700 K warm white, CRI 80, 120° beam	
LED lifetime	25,000 hours · LED not replaceable · not dimmable	
Solar panel	Monocrystalline, 5 V / 1.25 W, 105 × 105 mm, 20 % efficiency	
Battery	18650 Li-ion, 3.7 V, 2000 mAh, 7.4 Wh · replaceable by the user	
Charging	Solar ≈ 8 h · USB 5 V ⎓ 1 A ≈ 4 h (cable not included)	
Runtime	Up to ≈ 24 h in mode 3 (10 %)	
Sensors	Dusk to dawn (≤ 50 lux) · PIR motion sensor 2 to 6 m, 100°	
Control	ON/OFF switch · mode switch (3 modes)	
Warranty	2 years (battery excluded, see page 13)	





BLACK



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 10) 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 OLIVIA are explained on page 14.

WARRANTY

ZOLUNA gives a 2 year warranty on OLIVIA 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 OLIVIA or email info@zoluna.nl with your order number and a description or photo of the problem. Spare parts are available on request.

MANUFACTURER / IMPORTER

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

OLIVIA spike light SL-0003 · OLIVIA wall light WL-0006 · Made in China







Symbols, safety & compliance

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

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

Battery collection
Remove the battery and hand it in separately at a battery collection point.

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

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

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

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

Photobiological safety
Tested to EN 62471: risk group 0, exempt. No photobiological hazard in normal use.

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

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

Replaceable battery
The 18650 Li-ion battery can be replaced by the user (see page 10).

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

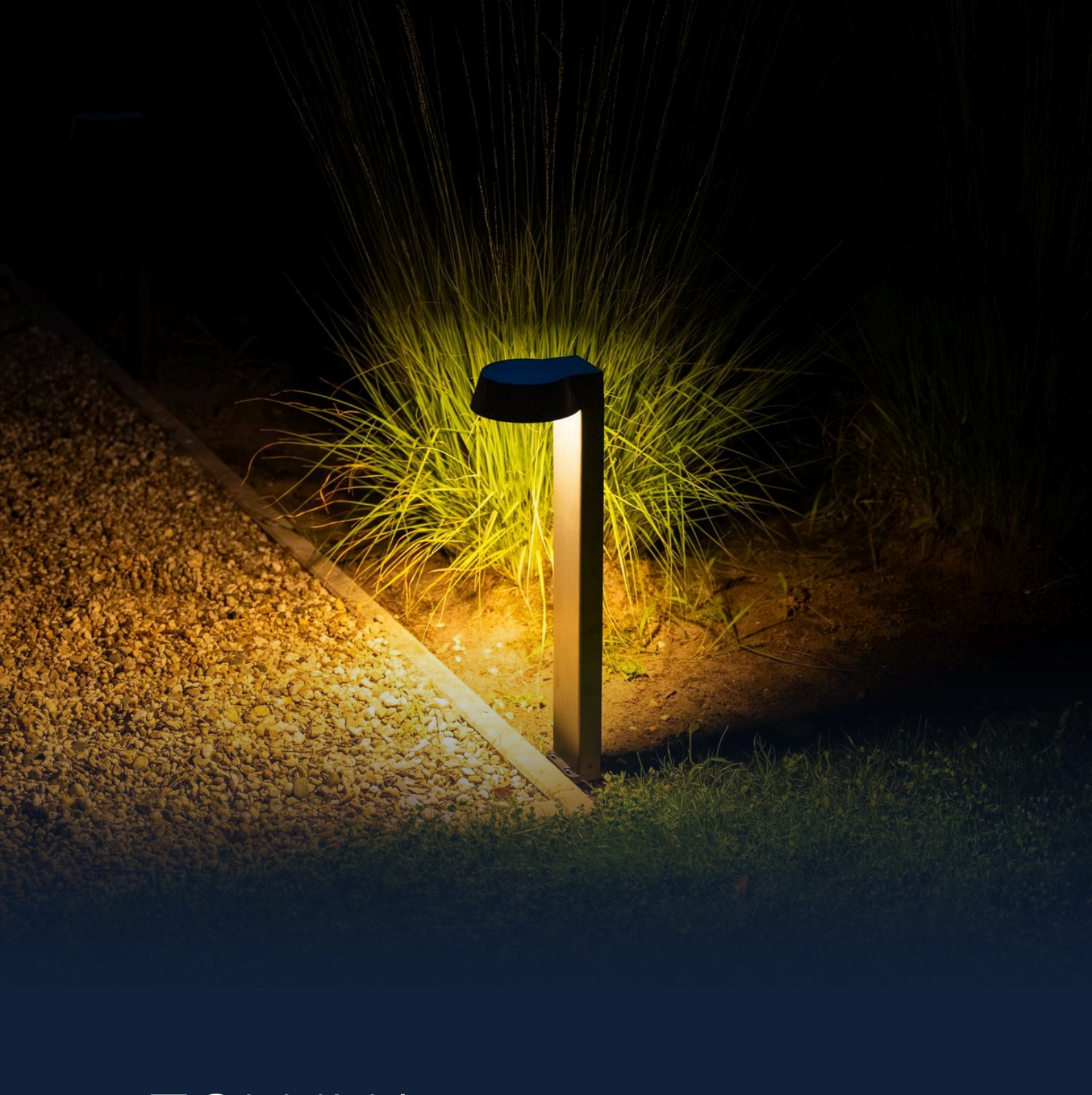
LED not replaceable
The LED light source is integrated and cannot be replaced by the user or a professional.

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

DECLARATION OF CONFORMITY

ZOLUNA declares that OLIVIA (spike light SL-0003, wall light WL-0006) 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: 18650 Li-ion, 3.7 V, 2000 mAh, replaceable by the user.

EMC Directive **2014/30/EU**	RoHS Directive **2011/65/EU + (EU) 2015/863**	Battery Regulation **(EU) 2023/1542**
REACH **(EC) 1907/2006**	General Product Safety **(EU) 2023/988**	WEEE Directive **2012/19/EU**
Photobiological safety **EN 62471 · RG0**	EMC standards **EN 55015 · EN 61547**	Lithium battery transport **UN 38.3**



ZOLUNA

SOLAR CHARGED, MOON READY

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