

**TRILUX**  
SIMPLIFY YOUR LIGHT.



## SOLAR-POWERED OUTDOOR LUMINAIRES FOR SUSTAINABLE CITIES

CUVIA 40 / LUMEGA IQ 50N

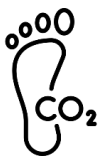
Solar-powered outdoor luminaires are not only an environmentally friendly alternative, but also a step towards intelligent and efficient lighting. Their use helps to make towns and cities safer, greener and more energy-efficient – an investment in the sustainable future of our urban areas.

### Benefits



#### ENVIRONMENTALLY FRIENDLY CITYSCAPES

Solar lighting sustainably reduces the ecological footprint of urban lighting systems. The solar-powered lighting solution saves costs compared to mains powered lighting and reduces energy consumption.



#### LOW INSTALLATION COMPLEXITY AND SUSTAINABILITY

The combination of high functionality and attractive design makes solar-powered outdoor luminaires a forward-looking solution. With low installation effort, solar-powered outdoor luminaires are ideal for remote locations as well as urban areas without a power supply. Installing a lighting solution with solar energy requires no additional construction work.



#### WEATHER-INDEPENDENT LIGHTING

Thanks to the integration of efficient battery storage, continuous illumination output is guaranteed (even in less favourable weather conditions) to ensure reliable lighting.



#### SMART AND EFFICIENT

The luminaires are intelligently controlled. Motion sensors ensure that the lighting is only activated when actually needed.



## Portfolio



**CUVIA 40**



**LUMEGA IQ 50N**

| Technical data              | CUVIA 40                      | LUMEGA IQ 50N                 |
|-----------------------------|-------------------------------|-------------------------------|
| Photovoltaic module output  | 80 W                          | 80 W                          |
| Luminous flux               | 1200 lm                       | 1200 lm                       |
| Light colour                | 3000 K<br>(others on request) | 3000 K<br>(others on request) |
| Protection rating           | IP65                          | IP65                          |
| System voltage              | 12 V DC                       | 12 V DC                       |
| System power consumption    | 8 W                           | 8 W                           |
| Battery capacity            | 27 Ah                         | 27 Ah                         |
| Backup time                 | approx. 5 days                | approx. 5 days                |
| Recommended mounting height | 4-5 m                         | 4-5 m                         |

## Efficiency calculation using a 60 W luminaire

|                            | Conventional luminaire | Solar luminaire |
|----------------------------|------------------------|-----------------|
| <b>Prices</b>              |                        |                 |
| Post                       | € 500                  | € 500           |
| Luminaire                  | € 250                  | € 250           |
| Solar components           |                        | € 3,200         |
| Total investment           | <b>€ 750</b>           | <b>€ 3,950</b>  |
| <b>Ongoing costs</b>       |                        |                 |
| Energy (0.35 €/kWh)        | € 84                   |                 |
| Maintenance costs          | € 200 / year           |                 |
| <b>Payback calculation</b> |                        |                 |
| Break-even                 | <b>12 years</b>        |                 |
| Total costs 20 years       | <b>€ 6,430</b>         | <b>€ 3,950</b>  |
| Savings over 20 years      |                        | <b>€ -2,480</b> |

