



MAXIMUM CIRCULARITY

CEDER

Conical luminaire | May 2020

Experience the Power of Light





Marking the landscape

Embracing and evergreen, the Cedar is a sight to behold. With its different shades from clear grass green to glaucous, it marks the landscape.

And it has for centuries...

Anyone who has ever walked in a Cedar forest will recognize the trees' fragrance. And even a solitary Cedar, with its conical fruits, stimulates the senses.

Apart from a beautiful appearance, its wood is extraordinarily durable. Cedarwood naturally contains oil that makes the wood resistant to decay, mildew and insects.

That is why Cedarwood is often used in housing construction. Its sustainable character also make Cedars a favourite in reforestation programmes.

CHARACTERISTICS

The key value

It is not without reason that CEDER is the name of the new Lightronics conical luminaire. (Dutch for Cedar).

The durability of the Cedar tree symbolises the vision of Lightronics. In this vision, socially responsible entrepreneurship, social return, circularity, social safety and quality are important core values.

For instance, we plant trees to compensate our carbon emissions footprint. We are committed to social return and stand for lighting comfort to help contribute to social safety. This creates a high-end streetscape with added value, in which a special role is reserved for the CEDER.

Did you know . . .

Lightronics has reached the highest possible level on the CO₂ Performance Ladder?

SUSTAINABILITY

Circularity in each branch

The CEDER is all about maximum circularity, with reduce, reuse and recycle at the heart of its design. We minimise raw material use, maximise the reuse of components and enable high-quality recycling.

The design has been optimized in such a way that adhesive or sealant work are not required. Once the luminaire has reached the end of its life cycle, the flange can be recycled and used as a base material for a new lighting column. The aluminium parts are coated with an anodising layer to enable future recycling without the need for additional treatment. We have managed to reduce our packaging while retaining the same level of protection against transit damage. Moreover, our packaging has also been optimised for reuse. We don't use plastic tape or film.



No adhesive or sealant



Environmentally responsible packaging



Recyclable housing

Aluminium top cover and cap, anodised or non-anodised

Easily replaceable aluminium LED panel and electronics unit

Optics cover
Polycarbonate (optional)

Aluminium lighting column

Polycarbonate bottom cover

Aluminium flange, anodised or non-anodised





SROI

Social Return - now and in the future

Baanbrekers

There is a prominent place within Lightronics for the talented people from Baanbrekers. We have been working with Baanbrekers for 25 years now. Currently we employ 13 people in our in-house sheltered workshop. Amongst their tasks is assembly of the CEDER. Its sub-assembly* can even be carried out in local sheltered workshops. In this way we want to contribute to socially responsible entrepreneurship.



Carbon offset

We try to minimise our Carbon footprint for instance by installing solar panels to realise energy-neutral production. By planting trees annually, we restore nature to the earth. This will prevent the loss of natural resources to industry and contributes to carbon capture and storage compensation.



*A functional test needs to be carried out in accordance with the IEC 60591-1 standard to obtain a valid CE quality mark.

MATERIALS

The future is light and green

Lightronics is continuing to work on a sustainable future and with the CEDER it responds to a growing demand for circularity. Lightronics has signed the Raw Materials Agreement and aims a 50% reduction in raw material use.

The materials

Aluminium has a long lifespan, is lightweight and corrosion resistant. In fact, it is recyclable without loss of quality, which is why 75% of the aluminium ever produced is still in circulation. Lightronics also chooses to anodise aluminium; a process that results in an exceptionally hard and corrosion resistant surface. The coating is extremely thin, which enables the aluminium to be recycled immediately without further treatment.

The assembly

The CEDER housing is constructed from smart sub-assemblies. This makes the luminaire easy to assemble with a minimum use of tools.

The future

CEDER can be equipped with smart electronics and sensors. The luminaire can be made future ready by placing Zhaga connectors in the housing. The LED panel and driver unit can be replaced quickly and without tools. Both the luminaire and the components can be delivered a long time after, which will make CEDER a new icon in the streetscape.

A clear and starry sky thanks to CEDER

Thanks to CEDER's advanced lighting technology and lenses, you can enjoy the clear sky and see the stars again, even during a city stroll by night.

Did you know . . .

CEDER is available in three variants? A1-Bright, A2-White and A3-Night. Each has its own technical lighting characteristics to accommodate the most diverse demands of people and their environment.

DIVERSITY

Lighting comfort for both man and environment

There are three CEDER variants:
A1-Bright, A2-White and A3-Night

You can opt for pure functional lighting, a more diffuse light profile or comfort lighting. Lightronics uses calculations and simulations to provide insight into the perception of light. Our lighting designers can give you specific recommendations to optimise lighting comfort and minimise light pollution.

Did you know . . .

our lighting designers collectively have over 54 years of experience in designing lighting projects?



CEDER A1-Bright



CEDER A2-White



CEDER A3-Night

TECHNICAL SPECIFICATIONS

Experience the city with CEDER

Lighting comfort, a refined view,
a sustainable and socially responsible product?
This is CEDER.

Technical specifications

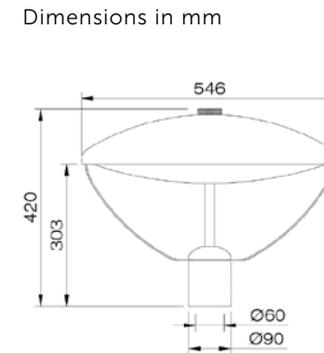
- Aluminium top cover and cap, anodised (clear or black) or non-anodised
- Light cover: UV-stabilised polycarbonate, A1-Bright, A2-White or A3-Night
- Mounting size 60mm
- Light source: LED
- Colour temperature neutral white (4000K) or warm white (3000K)
- CRI > 70
- Interchangeable driver- and LED unit
- Mass +/- 6kg (depends on model)
- Windage: 0.14m²
- Voltage 230/240V, 50Hz
- Standard surge protection (CM/DM):(8kV/6kV)
- Safety class 1
- Standard cable type H05BQ-F (5m, 3 x 1m²)
- Expected lifespan driver and LEDs: 100,000 (L80/F10)

Application areas

- City centres
- Residential areas
- Bicycle paths
- Parking lots
- Parks
- Plazas

CEDER | CONICAL LUMINAIRE - EASY LIGHT - 4000K/3000K

| Dimensions in mm | Lumen | | LED (W) | | System (W) | |
|------------------|-------|-------|---------|-------|------------|-------|
| | 4000K | 3000K | 4000K | 3000K | 4000K | 3000K |
| 800 | 5.5 | 5.7 | 7.7 | 8.0 | | |
| 1050 | 6.3 | 6.8 | 8.6 | 9.0 | | |
| 1200 | 7.2 | 7.5 | 9.5 | 9.8 | | |
| 1350 | 7.9 | 8.1 | 10.2 | 10.5 | | |
| 1500 | 8.5 | 8.8 | 10.9 | 11.2 | | |
| 1600 | 9.0 | 9.3 | 11.4 | 12.8 | | |
| 1800 | 10.0 | 10.4 | 12.4 | 13.7 | | |
| 2000 | 10.6 | 11.2 | 13.1 | 14.9 | | |
| 2150 | 11.5 | 12.4 | 13.9 | 16.1 | | |
| 2300 | 12.6 | 13.5 | 15.1 | 17.5 | | |
| 2500 | 14.2 | 14.8 | 16.8 | 16.8 | | |
| 2750 | 15.7 | 16.6 | 18.5 | 19.4 | | |
| 3000 | 17.3 | 18.5 | 20.1 | 21.4 | | |



Options

- Other cable types/lengths
- Conical or tapered post, excl. junction box
- Several dimming options: Dali, Dynadimmer (integrated in driver), 1-10 V
- Safety class 2
- Various light distributions
- Mounting size 76mm
- Zhaga connector (top cover)



SUSTAINABLE CHOICE

The CEDER in Easy Light version is by default supplied with CLO (Constant Lumen Output) and/or one of our five standard dimming regimes (1A, 2A, 3A, 4A and 5A).



 **LIGHTRONICS**

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Experience the Power of Light

lightronics.eu/en/ceder