

we-ef



Environmental Product Declaration

In accordance with ISO 14025
and EN 15804+A1 for:

VFL500 SERIES

WE-EF LEUCHTEN GmbH



Programme: The International EPD® System,
www.environdec.com
Programme operator: EPD International AB
EPD registration number: S-P-02405

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Geographical scope of EPD: Germany

WE-EF and the environment

WE-EF recognises the importance of good environmental practices. Our entire operation from product design through to the production process and subsequent product application is based on the principle of environmental protection and the most effective use of resources. The most recent environmental legislation is strictly adhered to.

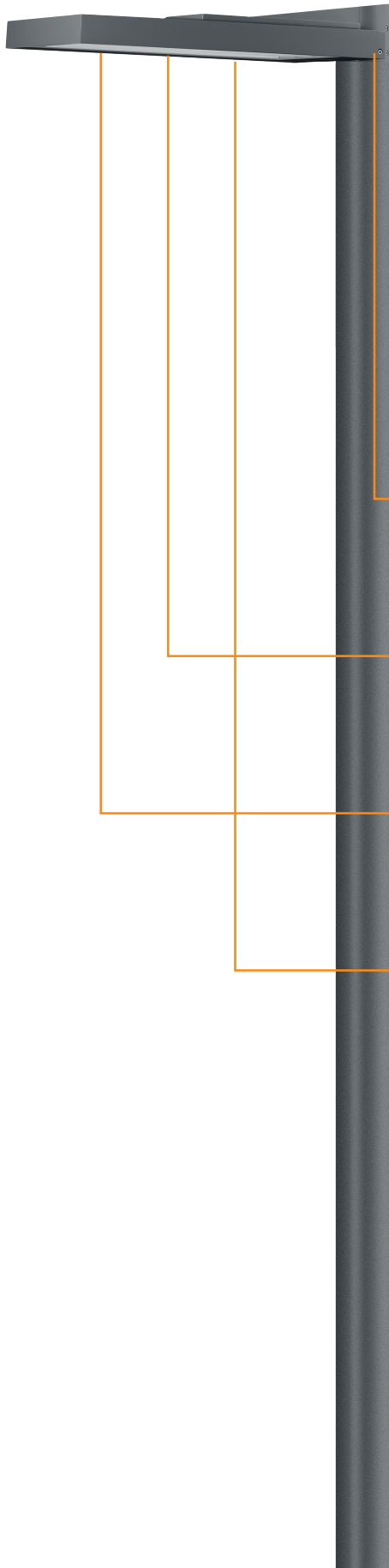
Our most significant contribution to the environment is the creation of products that are engineered to endure, essentially minimising the need to replace or recycle them for many years.

The longevity of our products is a major asset for our customers – and, at the same time, a significant contribution to the protection of our environment: Durable products need to be replaced and recycled far less often, saving energy and resources.



Penguin Parade, Phillips Island Nature Park

Victoria (AU)



Marine-grade, all-aluminium construction

- Die-cast aluminium alloy luminaire body
- Extruded aluminium alloy pole section



FS Factory-sealed

Luminaire does not need to be opened during installation. This unique feature is found in the majority of WE-EF's LED luminaires that consequently do not need to be opened during installation. A contractor's job has never been faster, more economical and straightforward.



5CE Superior Corrosion Protection

Five Critical Elements provide outstanding and long-lasting anti-corrosion properties



PCS Hardware

- Austenitic stainless steel
- Tough, impregnated polymer coating
- Non-metallic barrier, protects against galvanic corrosion



IOS® Innovative Optical System

- CAD-optimised for superior illumination and glare control
- Dark sky compliant



RFC® Main Lens

Reflection Free Contour delivers high light transmission



OLC® One LED Concept

Lens system follow the approach of the 'multi-layer' principle. These layers result in a uniform and efficient illumination



RFC® Main Lens: The contour of the main lens follows the shape of the individual LED lens, thereby minimising internal reflections within the luminaire.

Lighting Performance

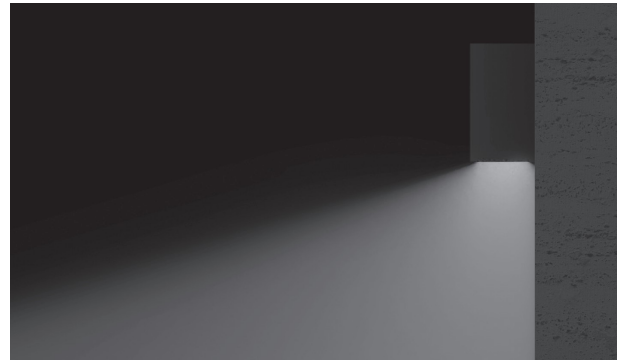
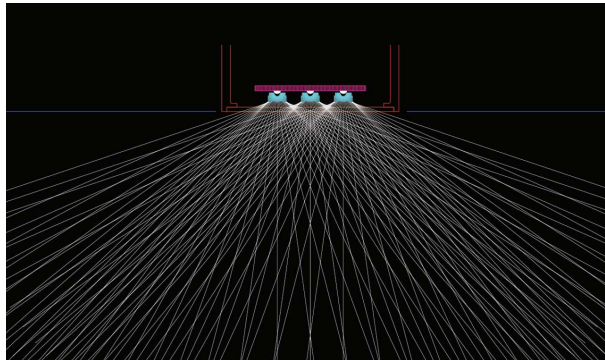
IOS® Innovative Optical System



IOS® is a complete system that provides solutions. It applies across the WE-EF range of luminaires.

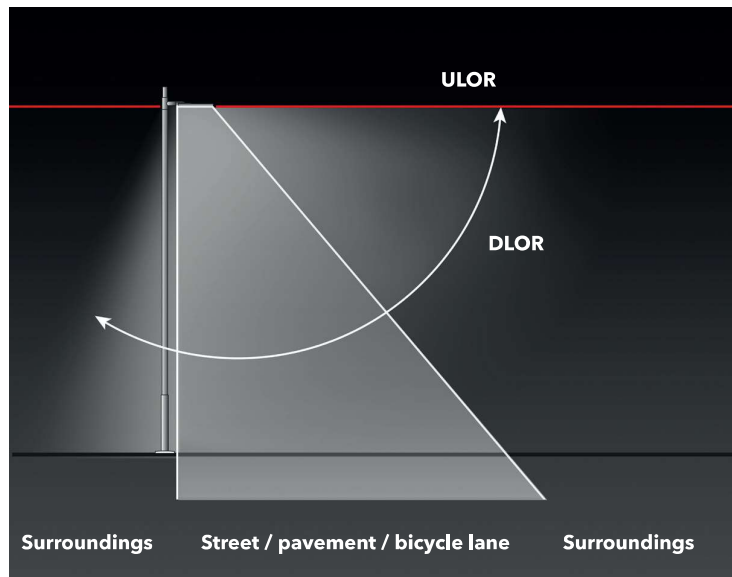
In-house CAD design of lenses

- Delivers tightly controlled light distribution
- High efficiency
- Minimum light spill outside the field angle



High photometric performance, beam efficiency and control

- Street and area lighting features full cut-off light distribution
- Zero light emission above 90° horizontal
- Solutions to light trespass and dark sky concerns
- Strict control in 80° – 90° zone

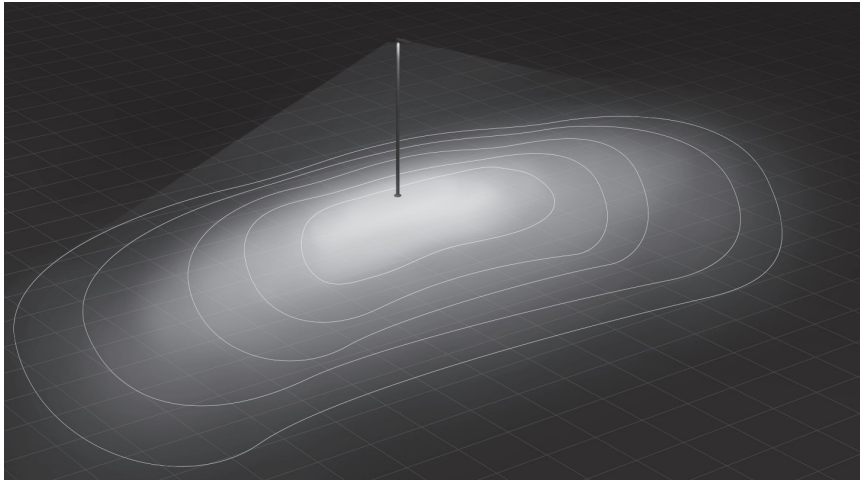


ULOR: The main purpose of an optical system is to direct light onto a specified target surface. Particularly in street lighting applications, any amount of light that is emitted above the horizontal, must be considered not merely as being wasteful, but equally so as polluting the night sky.

The Upward Light Output Ratio (ULOR) is a measure of how much light escapes from a luminaire into the sky. Obviously, a ULOR of zero percent is desirable. The better the optical system, the lower the burden on our environment.

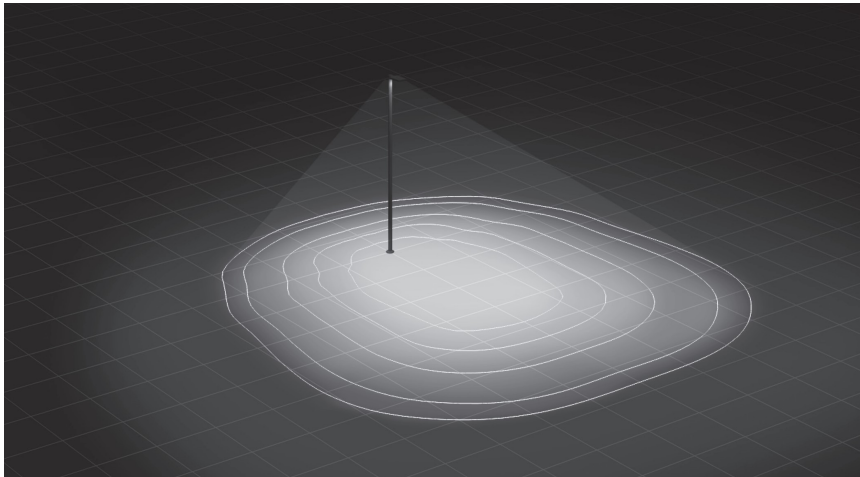
IOS® Innovative Optical System

IOS® optics for street and area lighting applications currently comprise 11 distinctly different versions for distinctly different applications and counting. Below are some of the common light distributions used in street and area lighting.



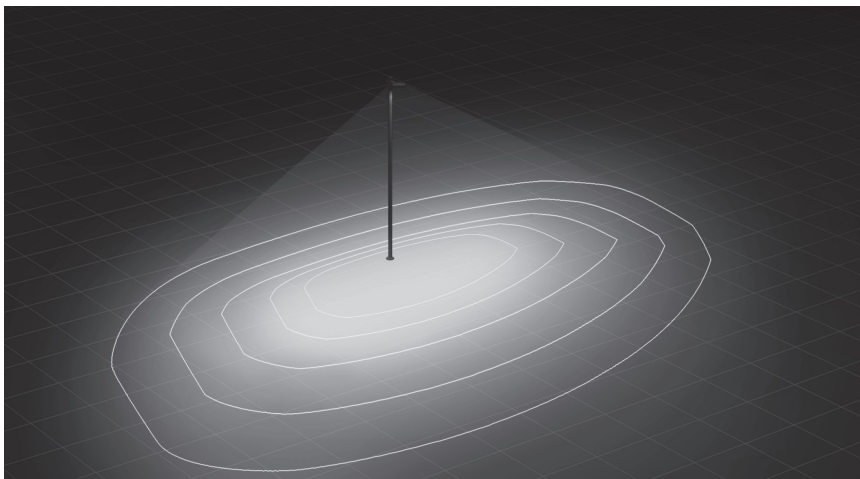
[S70] Streetlighting

Optimised for illuminance-based street lighting applications (maximum spacing between luminaires).



[A60] Asymmetric 'forward throw'

Particularly suitable for area lighting such as car parks etc.



[R65] Rectangular 'side throw'

Developed for area lighting applications where a combination of side and forward throw of light is required.