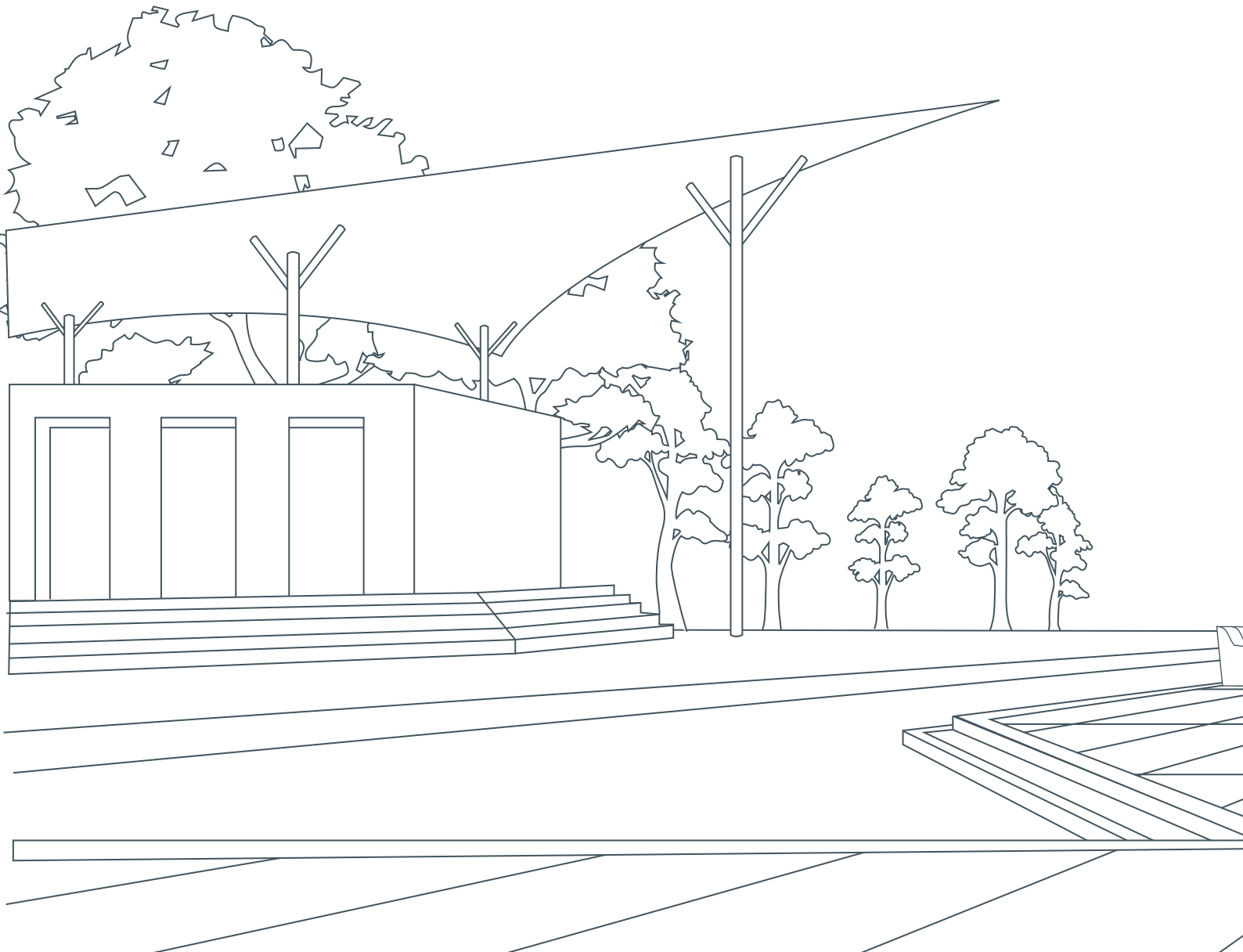
we-ef

WE-EF LEUCHTEN

General Catalogue

European Edition

Landscape



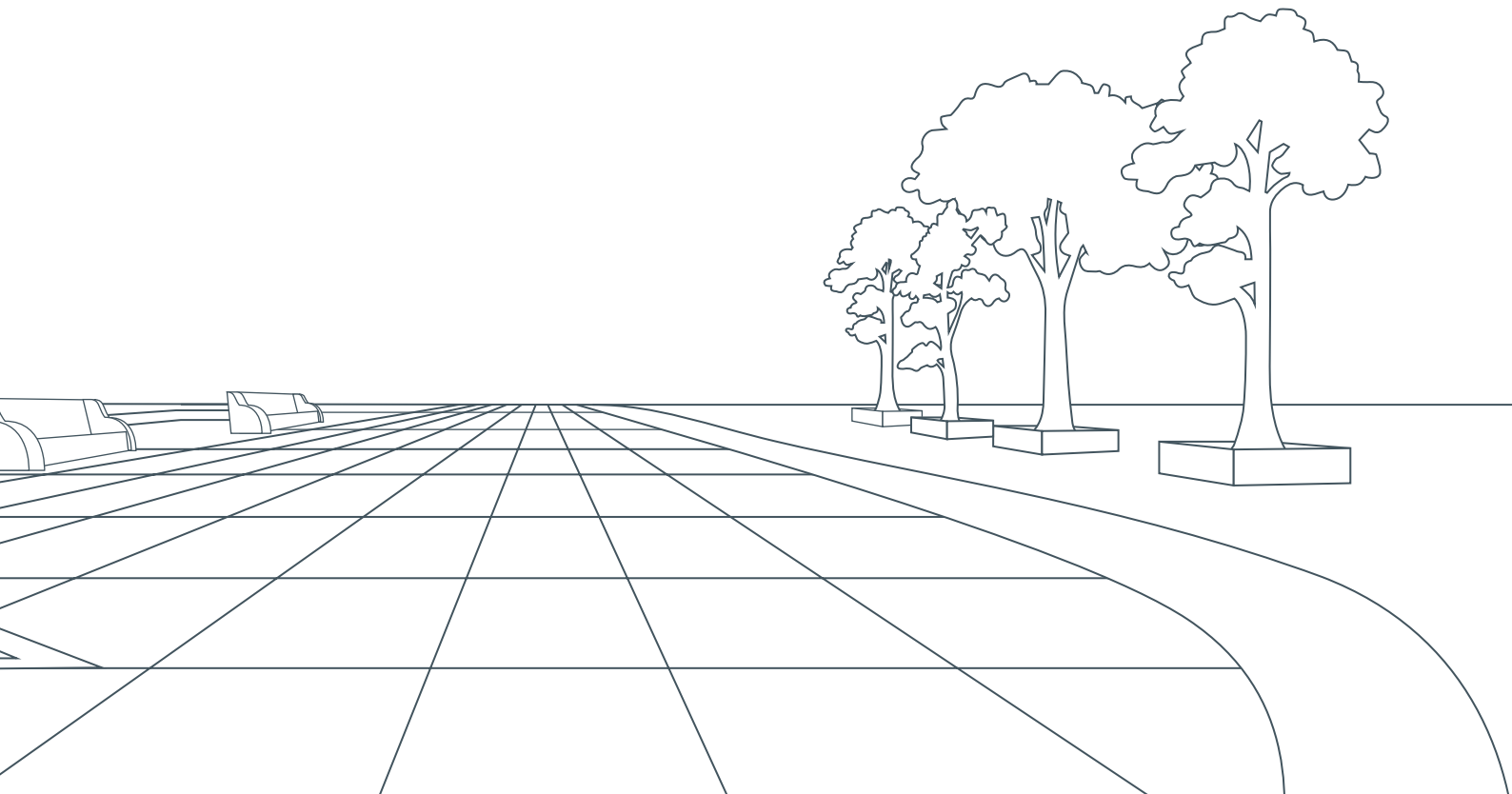
Visual comfort. Orientation. The creation of spaces that make us want to stay. These are the decisive factors when it comes to attractively illuminating open areas, pathways, and walks in parks, gardens or around buildings.

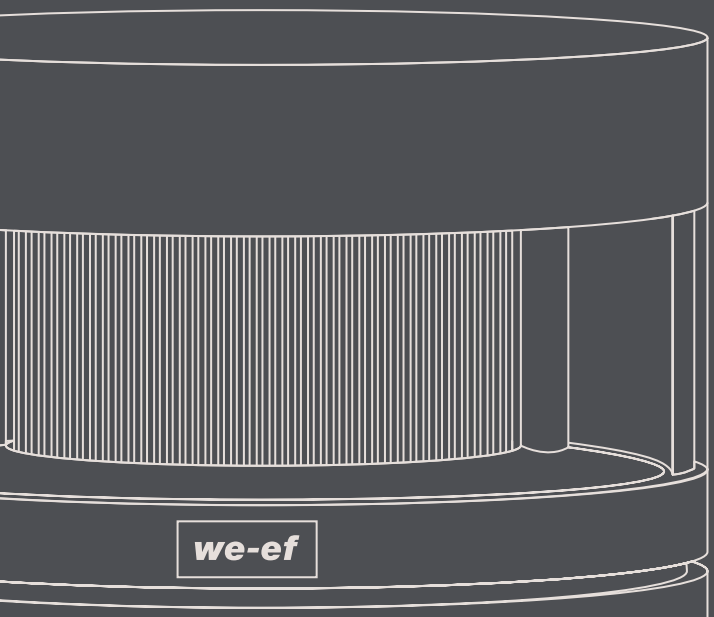
These are the principles that guide us, in our work of designing bollards, pathway luminaires and light columns that ensure nuanced and pleasantly glare-free lighting.

The subtle, clearly proportioned shapes come in a multitude of styles and variations, adding further weight to our argument. After all, these luminaires are also present by day, so they should blend in smoothly with any environment.

After sunset, it's mostly WE-EF's lighting technology that counts, scoring high with the versatility, precision and efficiency of WE-EF lens systems.

Additionally, they remain effective and reliable for not just for one summer, but for many years, thanks to WE-EF's proven 5CE Superior Corrosion Protection System, no matter how bad the weather or how rough the conditions.



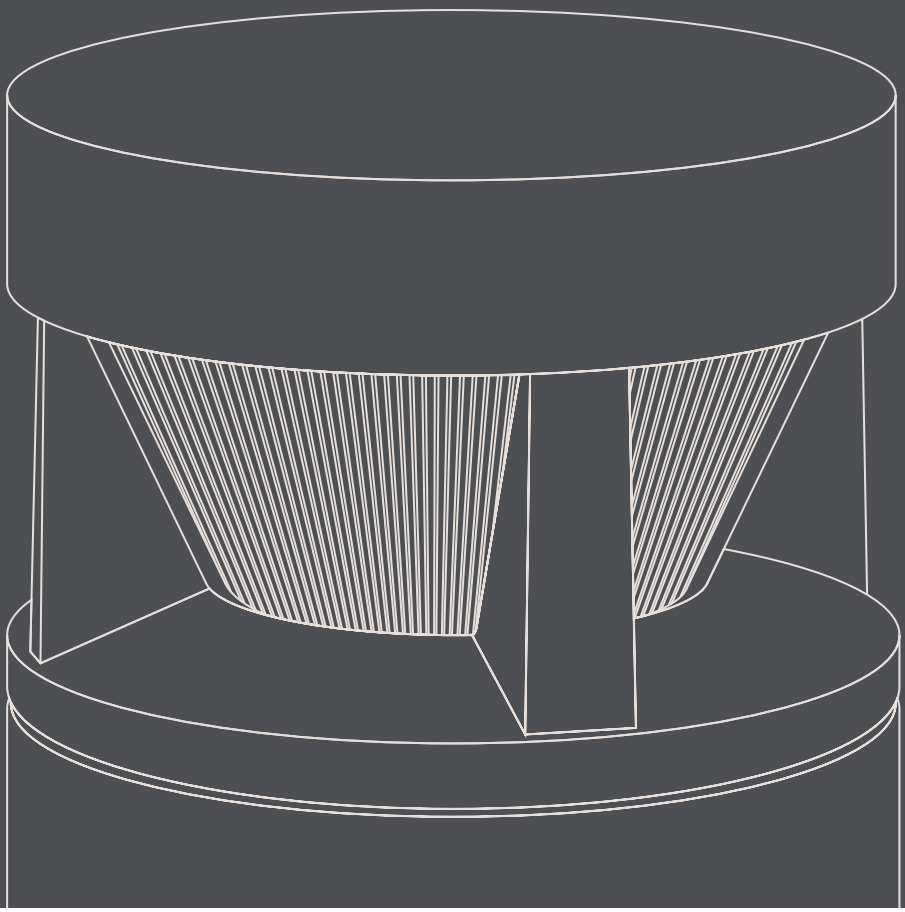


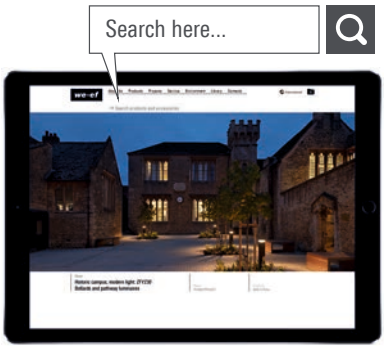
When it comes to creating an atmosphere in exterior areas, bollards and pathway luminaires by WE-EF are always a good choice.

Whether single or in rows, their effective light and attractive shape guarantees a convincing impact. Bollards and pathway luminaires by WE-EF come in a wide variety of shapes and sizes. Well-proportioned and based on a range of clear fundamental geometries, they blend harmoniously with almost any environment. As great aids for ensuring good orientation and secure navigation, they illuminate public parks, paths and squares as well as hotels and housing estates, driveways and private gardens.

In the evening hours, their light makes a significant contribution to creating spaces where people like to spend their time – inviting, pleasant and with just the right amount of brightness. With a wide range of light distributions to choose from, they offer glare-free light for high visual comfort. Many even meet the "Dark Sky" criteria. Due to their efficient lighting technology, the luminaires can be spaced with large intervals without impairing the effect and homogeneity of the light. Furthermore, WE-EF's very own 5CE Superior Corrosion Protection ensures a reliable and durable performance by the luminaires even under the harshest conditions, e.g., in the vicinity of seawater.

Bollards and pathway luminaires



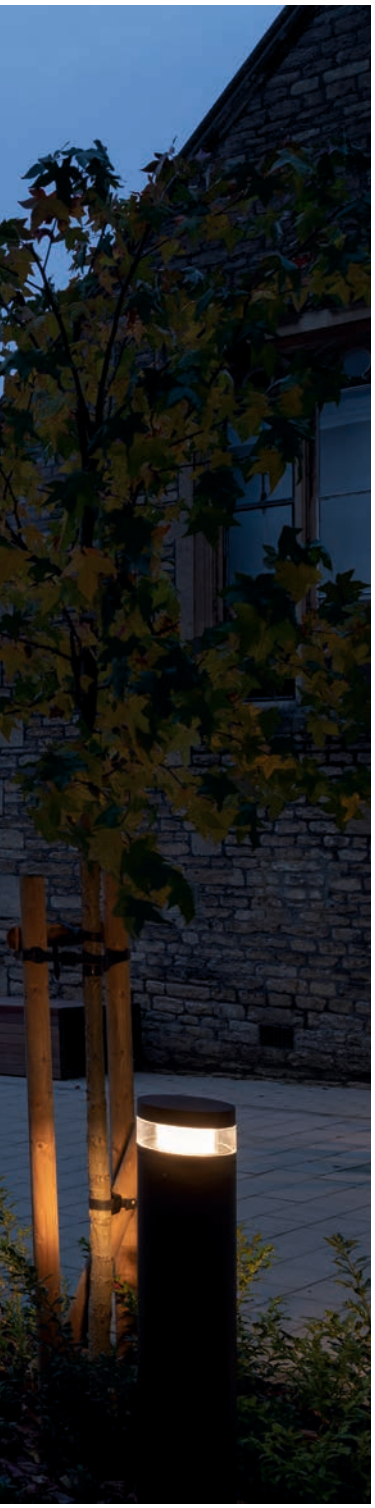


Bollards and pathway luminaires

For detailed specifications, product codes and latest performance data, refer to www.we-ef.com

King's Bruton Boarding School

Historic Campus. Modern Light



Even after more than 500 years, this boarding school in the county of Somerset has managed to keep its finger on the pulse of time, and it shows. The venerable school complex with its meticulously restored historical buildings, atmospheric open spaces and scenic paths is illuminated efficiently and glare control with ZFY230 bollard luminaires by WE-EF. Their unpretentious cylindrical shape is a perfect fit with the campus' harmonious blend of modern and historical elements.

King's Bruton Boarding School
Somerset, Bruton (UK)
Architect: Levitt Bernstein

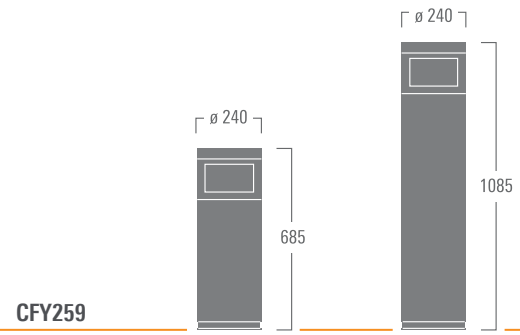
CFY200

Luminaire housing:	Marine-grade, all-aluminium construction
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Satinised safety glass
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control
Installation:	Pre-wired post complete with cable connecting box and fuse for mains connection
Control:	Optional DALI version available. To be specified at time of ordering

CLASS I | IP66 | IK10

Available distribution:
'Forward throw'

Standard colours:
RAL 9004 9006 9007 7016 9016



CFY259

One-sided 'Forward throw'	Two-sided 'Forward throw'
12-18 W	24-36 W
350-500 lm	690-990 lm

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at $T_q = 25°C$
- For accessories, refer to www.we-ef.com

CTY150

Luminaire housing:	Marine-grade, all-aluminium alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Polycarbonate, UV-stabilised
Gasketing:	Silicone rubber gasket
Installation:	Pre-wired post complete with cable connecting box and service door for mains connection
Control:	Optional DALI version available. To be specified at time of ordering

CLASS I | IP55 | IK10

Valentine Place London
London (UK)
Owner: Crest Nicholson
Lighting design: Couch Perry Wilkes

Available distribution:
[C60] [C55] [R50] [R65] [S65]

Standard colours:

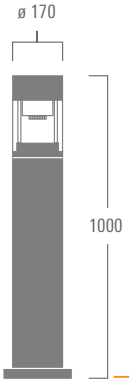
RAL 9004 9006 9007 7016 9016

[C60] Symmetric
[C55] Symmetric controlled
[R50] Rectangular
[R65] Rectangular, forward-throw
[S65] Asymmetric side-throw

[C60]

[C55] [R50]

[R65] [S65]



CTY150

[C60] [C55] [R50] [R65] [S65]

17-24 W
1660-2280 lm

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at T_q = 25°C
- For accessories, refer to www.we-ef.com

KTY200

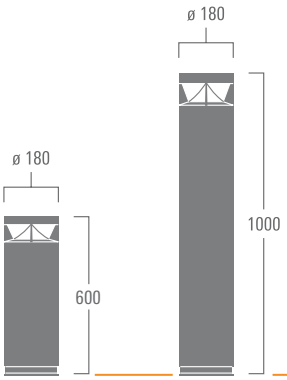
Luminaire housing:	Marine-grade, all-aluminium construction
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Polycarbonate, UV-stabilised
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control
Installation:	Pre-wired post complete with cable connecting box and fuse for mains connection
Control:	Optional DALI version available. To be specified at time of ordering

CLASS I | IP66 | IK10

Available distributions:
[C60] [R65]

Standard colours:
RAL 9004 9006 9007 7016 9016

[C60] Symmetric
[R65] Rectangular 'side throw'



KTY234

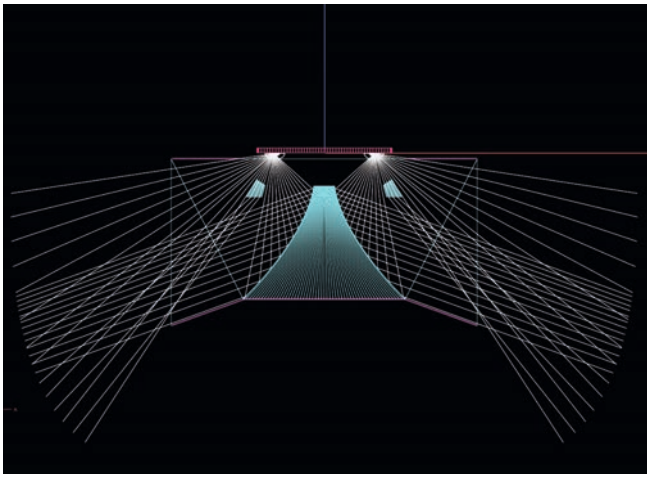
[C60] [R65]

9-26 W
470-960 lm
Max. 1 internal accessory

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at T_q = 25°C
- For accessories, refer to www.we-ef.com

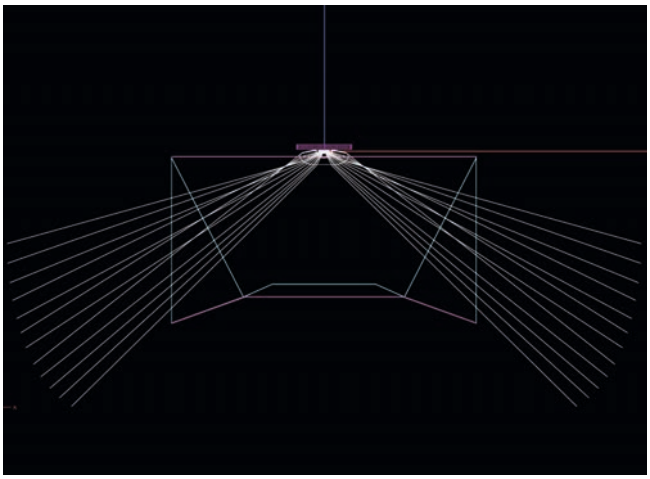
All-round Bollards for Controlled Horizontal and Vertical Illumination

The [C60] symmetric distribution is the highly efficient result of a specifically designed reflector-lens combination. While the '60' refers to the nominal angle of peak intensity from nadir (downward vertical), highly uniform illuminance is achieved at ground level. The [R65] rectangular distribution combines controlled 'forward' with broad 'side throw', allowing for large spacing intervals between luminaires. In addition, a controlled amount of vertical illuminance facilitates facial recognition and similar viewing tasks in an otherwise dark environment, such as public parks etc.



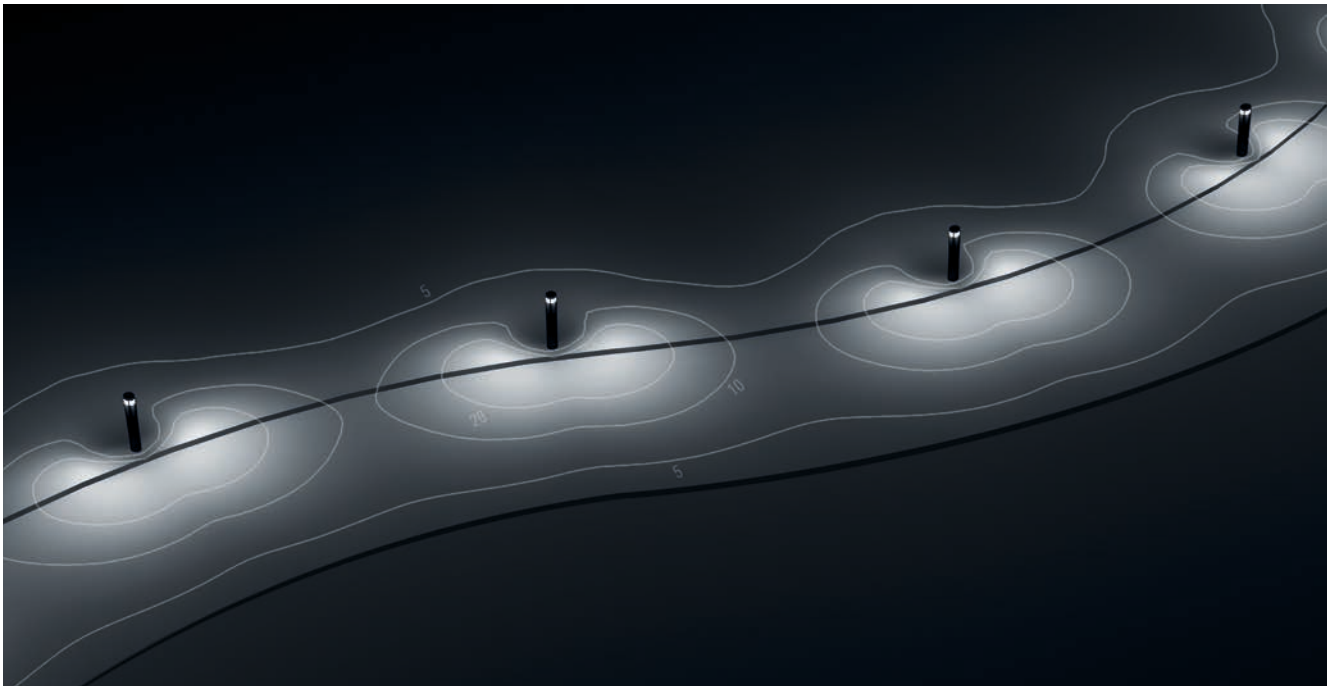
KTY200 series – Ray-tracing

This CAD ray-tracing simulation of the [C60] lens demonstrates the controlled downward light distribution. The refractor lens simultaneously reduces surface brightness and provides a limited vertical illuminance component – facilitating facial recognition



KTY200 series – Ray-tracing

An array of highly effective [R65] optical lenses delivers uniform pathway lighting. The 'eyebrow' prisms restrict high-angle glare – ensuring high visual comfort.



KTY234 [R65] Rectangular 'Side throw'

KTY234 [R65] without...

...and with 180° cut-off shield.

MRY200

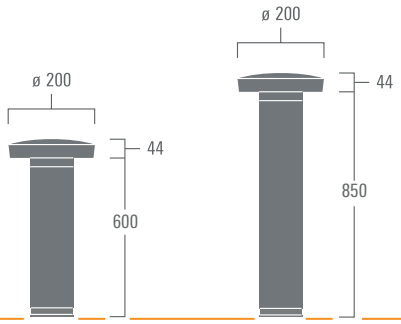
Luminaire housing:	Marine-grade, all-aluminium construction
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Polycarbonate, UV-stabilised
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control
Installation:	Luminaire is factory-sealed and does not need to be opened during installation

CLASS I | IP67 | IK10

Available distribution:
[C70]

Standard colours:
RAL 9004 9006 9007 7016 9016

[C70] Symmetric



MRY224

[C70]

11-15 W

840-1110 lm

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at $T_q = 25°C$
- For accessories, refer to www.we-ef.com

ZFY200

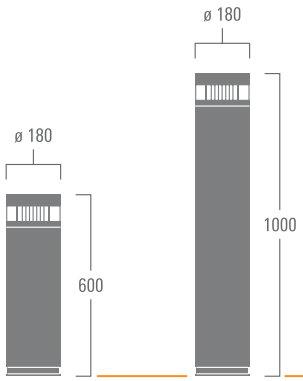
Luminaire housing:	Marine-grade, all-aluminium construction
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	Polycarbonate, UV-stabilised
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control
Installation:	Pre-wired post complete with cable connecting box and fuse for mains connection
Control:	Optional DALI version available. To be specified at time of ordering

CLASS I | IP66 | IK10

Available distribution:
[C60]

Standard colours:
RAL 9004 9006 9007 7016 9016

[C60] Symmetric



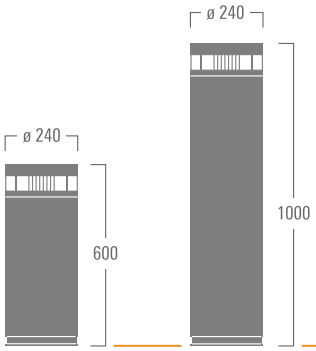
ZFY230

[C60]

12-17 W

760-1140 lm

Max. 1 internal accessory



ZFY250

[C60]

17-24 W

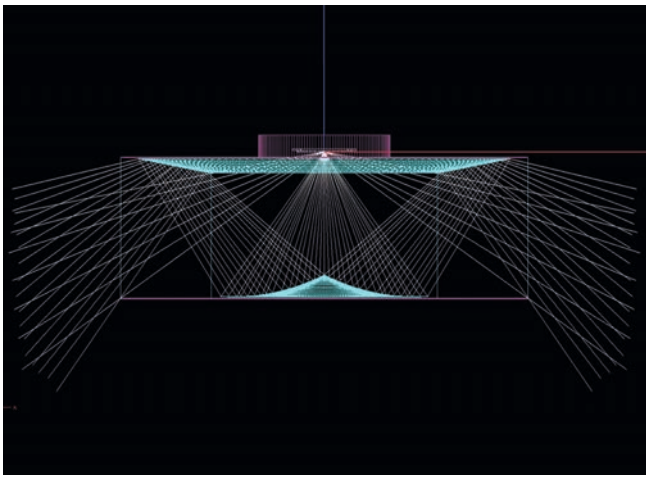
760-1040 lm

Max. 1 internal accessory

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at T_q = 25°C
- For accessories, refer to www.we-ef.com

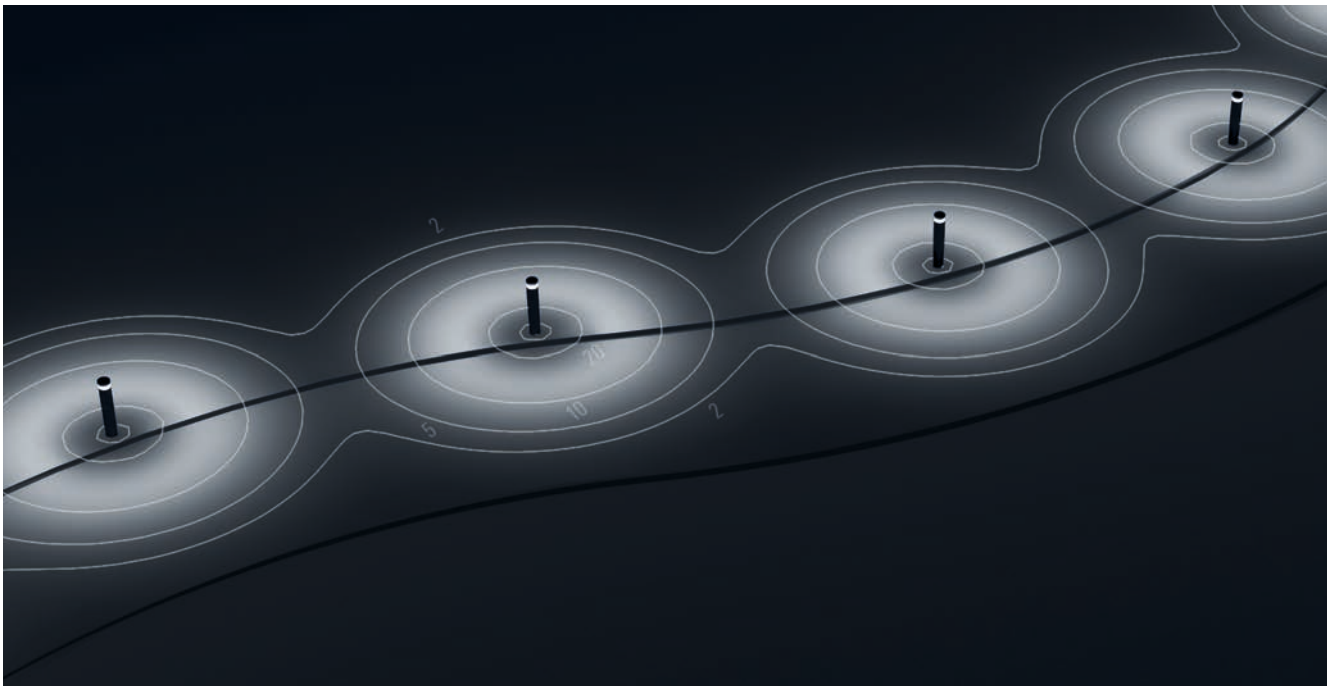
Optical systems for controlled horizontal and vertical lighting

The symmetrical [C60] light distribution consists of a reflector-lens combination that emits the maximum light intensity below 60°. This creates an even and well-defined illuminance distribution near the ground.



ZFY200 series – Ray-tracing

The luminaire's reflector elements produce a controlled downward distribution. An additional refractor lens reduces surface brightness while creating a limited amount of vertical illuminance – all contributing factors to ensuring high visual comfort, facial recognition and public safety.



ZFY230 [C60] Symmetric

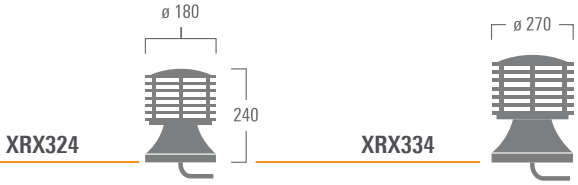
XRX300 / XRY300

Luminaire housing:	Marine-grade, die-cast aluminium alloy
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	XRX324 / XRY324: Polycarbonate, UV-stabilised
	XRX324 / XRY334: Borosilicate glass
Gasketing:	Silicone rubber gasket
Installation:	XRY300 – Pre-wired post complete with cable connecting box and service door for mains connection
Control:	Optional DALI version available. To be specified at time of ordering

CLASS I | IP55 | IK10

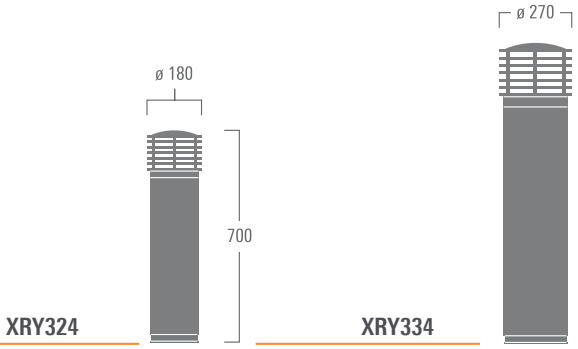
Available distribution:
Diffused

Standard colours:
RAL 9004 9006 9007 7016 9016



XRX324 **XRX334**

Diffused
8-12 W
260-450 lm



XRY324 **XRY334**

Diffused
8-12 W
260-450 lm

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at $T_q = 25°C$
- For accessories, refer to www.we-ef.com

PSY400

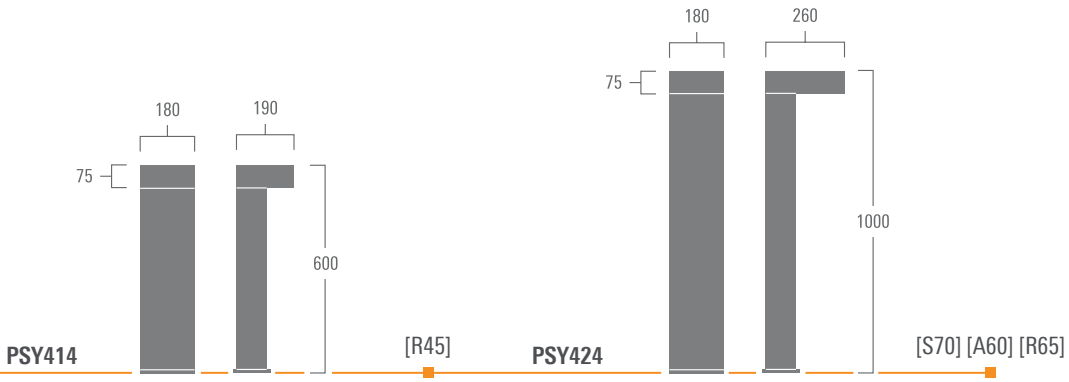
Luminaire housing:	Marine-grade, all-aluminium construction
	Pole section features galvanised steel reinforcement core
Corrosion protection:	5CE, including PCS hardware
Driver:	Integral EC electronic converter
Main lens:	RFC® Reflection Free Contour
Gasketing:	Silicone CCG® Controlled Compression Gasket
Optics:	CAD-optimised for superior illumination and glare control
	OLC® One LED Concept
Installation:	Pre-wired post complete with cable connecting box and fuse for mains connection
Control:	Optional DALI version available. To be specified at time of ordering

CLASS I | IP66 | IK10

Available distributions:
[R45] [S70] [A60] [R65]

Standard colours:
RAL 9004 9006 9007 7016 9016

[R45] Rectangular 'forward throw'
[S70] Asymmetric 'side throw'
[A60] Asymmetric 'forward throw'
[R65] Rectangular 'side throw'



PSY414

[R45]

6-13 W
550-1110 lm

PSY424

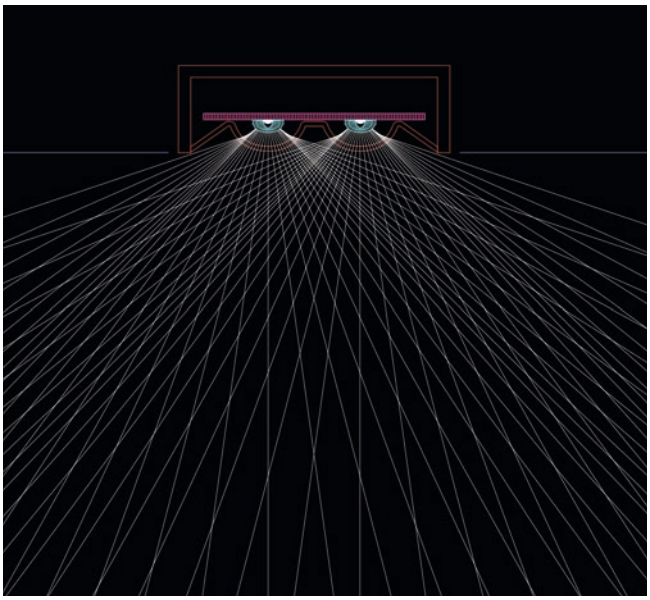
[S70] [A60] [R65]

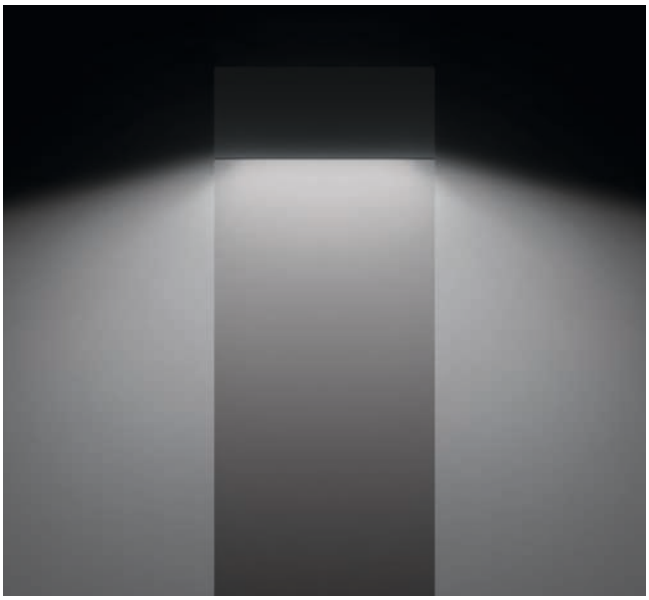
12-26 W
1040-2480 lm

- For detailed specifications, product codes and latest performance data, refer to www.we-ef.com
- Shown above are rated lumens for 3000 K at $T_q = 25°C$
- For accessories, refer to www.we-ef.com

Bright Walks, Dark Skies

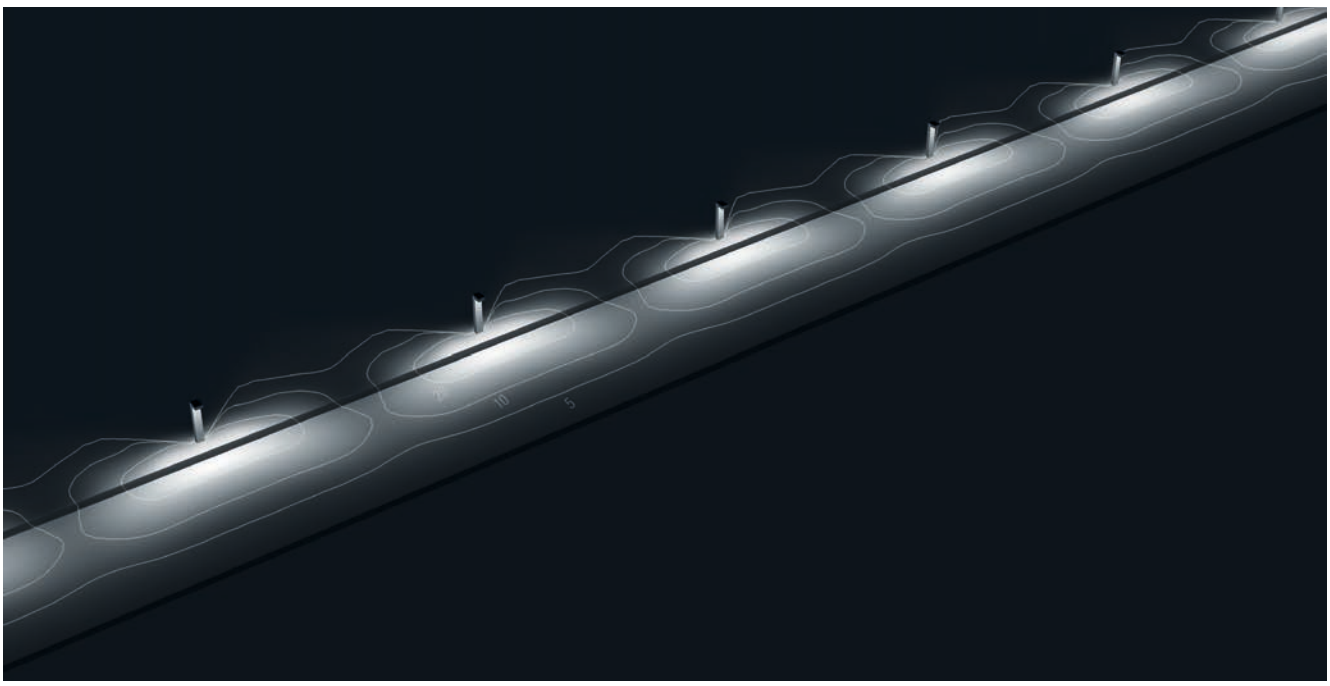
WE-EF's versatile, high-performance street and area lighting optics – customised for bollards of 0.6 to 1.0 metre height – deliver first-class illumination for narrow driveways, landscapes, pathways etc. With four different light distributions to choose from – [R45] [S70] [A60] [R65] – a large variety of lighting challenges can be addressed and mastered. At the same time, 100 per cent horizontal cut-off addresses dark sky concerns and safeguards high visual comfort.



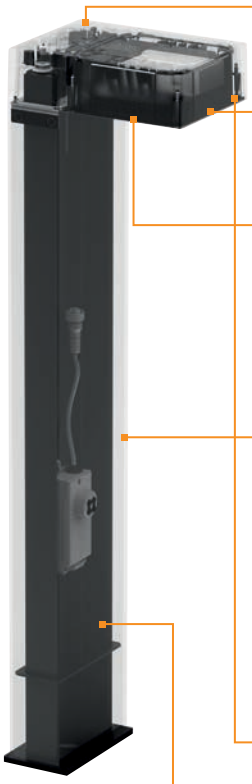


PSY400 series – Ray-tracing

This CAD ray-tracing simulation demonstrates the [R65] optics' broad downward light distribution as well as its glare control qualities. The combined 'side throw' and 'forward throw' of light delivers uniform coverage for large areas.



PSY424 [S70] Asymmetric 'Side throw'



Factory-sealed
Luminaire does not need to be opened during installation

IOS® innovative Optical System
Dark sky compliant

RFC® Main Lens
Reflection Free Contour delivers high light transmission

5CE Superior Corrosion Protection
Five Critical Elements provide outstanding and long-lasting anti-corrosion properties

- Substrate – marine-grade aluminium alloy
- Conversion coating – multi-step pre-treatment
- Powder coating – UV stabilised, architectural grade coating
- PCS hardware – refer to detail below
- Process Control – tightly controlled process and quality checks, up to 3,000-hour salt spray tests

PCS Hardware

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

Anti-vandalism Reinforcement
Core structure and surface-mounting flange plate made from hot-dipped galvanised steel

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