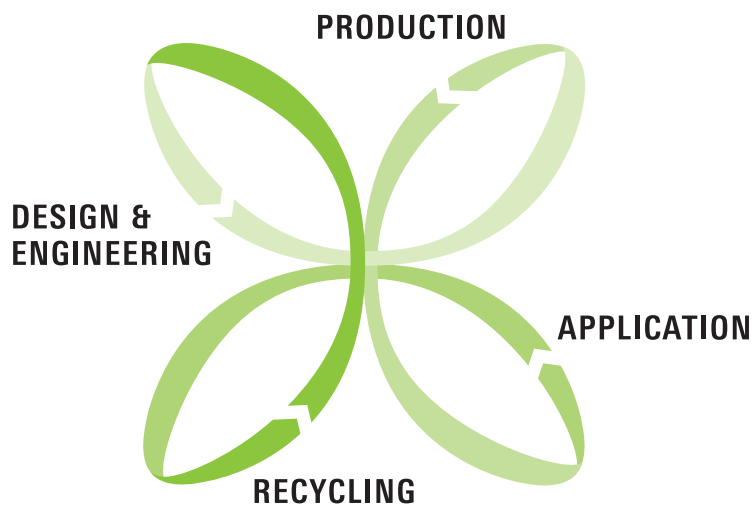


**we-ef**

**WE-EF LEUCHTEN**  
Pole Mounted Luminaires  
**ZFT400 Series**  
2016





### Design and Engineering

The most important element in the design process is the development of luminaires that encompass timeless design; in other words, design that best reflects their enduring qualities.

In addition, state-of-the-art engineering brings with it the highest standards with regard to environmentally-friendly materials and processes, i.e., high IP ratings, excellent thermal management and innovative optical systems. The development of high-end, efficient reflectors and lenses is one of the core competencies of WE-EF. This means compliance with international lighting and safety norms, while meeting the criteria of such organisations as the Dark Sky Society. Continual investment in research and development is the basic condition for meeting these requirements. WE-EF innovations, such as IOS® Innovative Optical Systems, CTA® Cool Touch Adaptor, ASC Anti Slip Coating and OLC® One LED Concept, are just some examples of the company's continuing investment in technology.

### Production

'Made by WE-EF' is more than just an expression; the high quality level of in-house production processes includes:

- Tooling for HPDC and injection moulding
- Aluminium high-pressure die-casting
- CNC machining
- Powdercoating
- Pole manufacturing
- Assembly

Through continual investment in tooling, production processes and the ongoing education of our employees, we are able to achieve the highest standards of quality.

In exterior lighting, the corrosion resistance qualities of a product are important for their reliability and longevity. A durable and reliable corrosion protection can only be achieved when Product Development and the Production Processes are considered together. Years of research, development and practical testing and experience in some of the harshest climates on earth has resulted in WE-EF's unique 5CE corrosion protection system. It encompasses five critical elements; Material, Conversion Coating, Powder Coating, PCS Polymer Coated Stainless Hardware and Process Control. Only complete systems such as 5CE can provide reliability and longevity in exterior environments.

### Application

Real and sustainable cost and energy savings can only be achieved through professional project planning, including the application of the latest optical systems and LEDs. In streetlighting applications, for example, this means minimising the number of luminaires required by optimising the efficiency of the optical system, while at the same time limiting glare in line with international standards. In short, reduced installation and maintenance costs, less CO<sub>2</sub> and improved quality of light.

### Recycling

More than 90 per cent of a WE-EF luminaire can be recycled. The main component, a marine-grade aluminium substrate, is refined from recycled aluminium. This recycled aluminium is also an 'energy storer'. Only 5 per cent of the original energy needed to process bauxite into aluminium is required for recycling. In other words, 95 per cent of the original energy input is also recycled.

## ZFT400 SERIES

Pole mounted luminaire, symmetric or side and forward throw distribution, asymmetric.

IP66, Class I. IK09. Marine-grade die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007, RAL 9016 or Classic Silver. Silicone CCG® Controlled Compression Gasket. PMMA cover.

Integral EC electronic converter. Surge protection 10/10 kV. PMMA LED lenses. CAD optimised OLC® or double lens optics for superior illumination and glare control.

Luminaire is factory-sealed and does not need to be opened during installation.

Direct mount  $\varnothing$  76 x 80 mm, optional  $\varnothing$  60 x 80 version on request. Must be indicated during order placement. Wall or pole bracket on request.

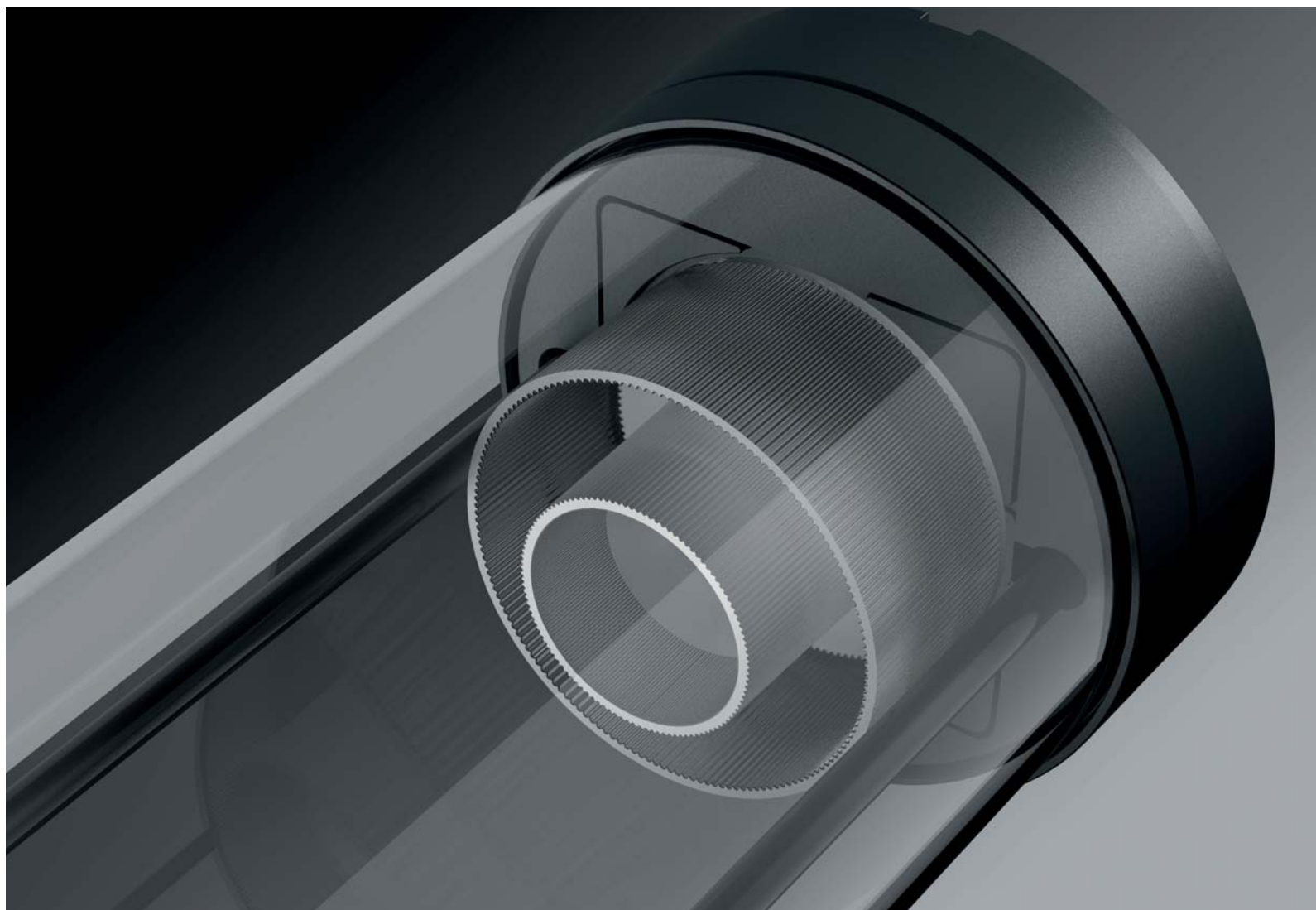
Light source

LED 18-54 W, 4000 K,  
for 3000 K refer to [www.we-ef.com](http://www.we-ef.com)

Light distributions

[C60] [S65] [R65]

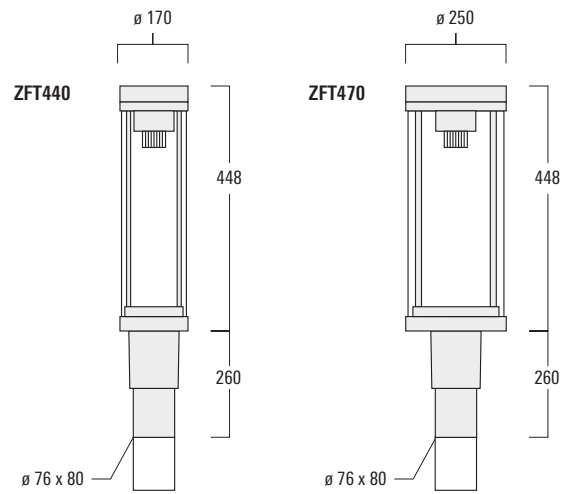
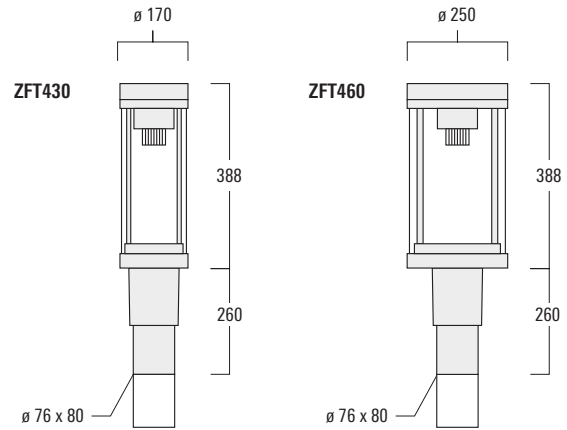
other distributions available on request



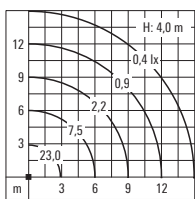


[C60] Controlled distribution, symmetric

[C60]	Part ID	Light source	K	lm*	Factor**	kg
ZFT430	115-1344	LED-FT 12W	4000	1915	0.49	5.4
	115-1242	LED-FT 24W	4000	3940	1.00	5.4
ZFT440	115-1342	LED-FT 12W	4000	1915	0.49	5.5
	115-1244	LED-FT 24W	4000	3940	1.00	5.5
ZFT460	115-1346	LED-FT 24W	4000	3940	1.00	7.1
	115-1348	LED-FT 37W	4000	5890	1.49	7.1
ZFT470	115-1354	LED-FT 24W	4000	3940	1.00	7.2
	115-1356	LED-FT 37W	4000	5890	1.49	7.2



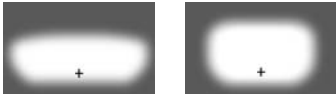
Optional  $\varnothing 60 \times 80$  version on request.  
Must be indicated during order placement.



[C60]

\* Nominal lumen output based on LED manufacturers data at 25°C T<sub>c</sub>. For rated lumens at 25°C T<sub>q</sub> and latest data refer to [www.we-ef.com](http://www.we-ef.com).

\*\* Multiplier for Isolux value



[S65]

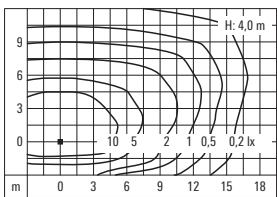
[R65]

[S65] Streetlighting distribution

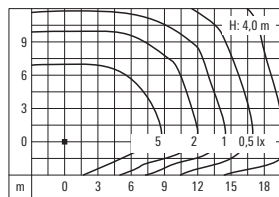
[R65] Rectangular forward throw distribution

[S65]	Part ID	Light source	K	lm*	Factor**	kg
ZFT434	115-1364	9 LED 9W / 350 mA	4000	1211	0.55	5.5
	115-1292	9 LED 18W / 700 mA	4000	2213	1.00	5.5
ZFT444	115-1370	9 LED 9W / 350 mA	4000	1211	0.55	5.6
	115-1372	9 LED 18W / 700 mA	4000	2213	1.00	5.6
ZFT464	115-1311	18 LED 36W / 700 mA	4000	4427	2.00	7.2
	115-1352	18 LED 54W / 1050 mA	4000	8100	3.66	7.2
ZFT474	115-1360	18 LED 36W / 700 mA	4000	4427	2.00	7.3
	115-1315	18 LED 54W / 1050 mA	4000	8100	3.66	7.3

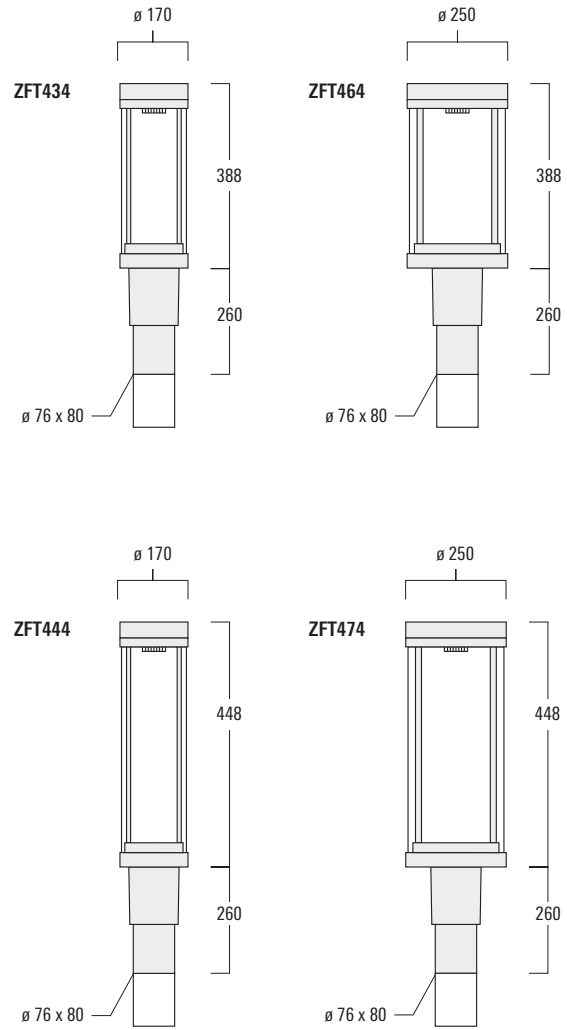
[R65]	Part ID	Light source	K	lm*	Factor**	kg
ZFT434	115-1362	9 LED 9W / 350 mA	4000	1211	0.55	5.5
	115-1288	9 LED 18W / 700 mA	4000	2213	1.00	5.5
ZFT444	115-1366	9 LED 9W / 350 mA	4000	1211	0.55	5.6
	115-1368	9 LED 18W / 700 mA	4000	2213	1.00	5.6
ZFT464	115-1309	18 LED 36W / 700 mA	4000	4427	2.00	7.2
	115-1350	18 LED 54W / 1050 mA	4000	8100	3.66	7.2
ZFT474	115-1358	18 LED 36W / 700 mA	4000	4427	2.00	7.3
	115-1313	18 LED 54W / 1050 mA	4000	8100	3.66	7.3



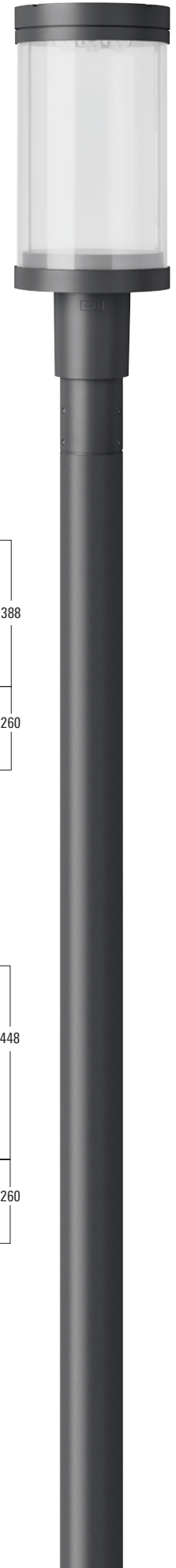
[S65]



[R65]



Optional  $\varnothing 60 \times 80$  version on request.  
Must be indicated during order placement.



\* Nominal lumen output based on LED manufacturers data at 85°C T<sub>J</sub>. For rated lumens at 25°C T<sub>1</sub> and latest data refer to [www.we-ef.com](http://www.we-ef.com).

\*\* Multiplier for Isolux value

## FEATURES ZFT400 SERIES

IP classification:	IP66
Electrical protection:	Class I
Impact protection:	IK09
Housing:	Marine-grade, die-cast aluminium alloy, 5CE superior corrosion protection
Hardware:	PCS (Polymer Coated stainless Steel)
Cover:	PMMA
Gasket:	Silicone CCG® Controlled Compression Gasket
EC:	Integral EC electronic converter Remote surge protection 10/10 kV. Integral surge protection available on request.
LED:	LED-FT or 9/18 pieces with 3000 K or 4000 K
Optic:	OLC® (One LED Concept) PMMA lenses with [S65] [R65] light distributions or PMMA double lens [C60]. Other optical options available on request.
Heat sink:	Integrated
Installation:	Luminaire is factory-sealed and does not need to be opened during installation. Direct mount $\varnothing$ 76 x 80 mm, optional $\varnothing$ 60 x 80 version on request. Must be indicated during order placement. Wall or pole bracket on request.



The ZFT400 uses the specially developed WE-EF [C60] LED double lens made from PMMA. The lens provides a symmetrical light distribution, ensuring outstanding glare reduction at maximum efficiency. Light shield LS180 also available on request. (Photo: ZFT430)



The OLC® technology is the ideal method for achieving a uniform and energy saving lighting solution, providing highest safety and visual comfort, in ensuring that the failure of individual LEDs does not lead to an adverse effect in the lighting. (Photo: ZFT464)



Using either a 1–10V or DALI interface with electronic converter, the light output and energy usage of the individual luminaires can be controlled. All components of the luminaire are engineered for reliability and longevity.



Outstanding and long lasting anticorrosion properties can only be achieved by a comprehensive, integrated approach. WE-EF's unique 5CE system encompasses five critical elements: Material, Conversion Coating, Powder Coating, PCS Hardware and Process Control.



PCS coated fasteners made from austenitic stainless steel reduce the risk of galvanic corrosion.



Optional accessory: Bird spikes



Optional accessory:  
Wireless antenna for remote control.



Optional accessory:  
Photocell for ZFT460/464 and ZFT470/474



The ZFT400 series [C60] is fitted with a 10/10 kV surge protection device.

**Important:**  
For comprehensive protection of the luminaire against lightning and electrical surges, we generally recommend primary (Type 1) and secondary (Type 2) surge arrestors be installed into the switch board.

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