

AMBIENT URBAN

ALTAIR IXF





# ALTAIR

IXF

ISTANIUM<sup>LED</sup>®

Ambient urban luminaire, ideal for the intensive introduction of LED technology

During the luminaire's 25-year service life, it is only necessary to replace the light engine to ensure maximum energy efficiency. Reduce costs by reusing the body of the luminaire and only updating the light source. Guaranteed driver and light source updates.



Parking areas



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



Roundabouts / Intersections

# ALTAIR IXF

## FEATURES

### DESIGN

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Compact luminaire with a flat cover and an internal LED cooling system with a honeycomb design and no visible fins.

Flat tempered glass closure that prevents dirt from accumulating on the optics.

Minimum light pollution (ULOR <0.1%).

### EASY TO UPGRADE

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The electro-optic group is removable and upgradeable by means of a single piece, with a disconnection mechanism for automatic disconnection.

**WATERTIGHTNESS**

Depressor that allows high dust and water resistance - IP66.



**SECURITY**

Automatic electrical disconnection when opening the luminaire. Possibility of incorporating surge protection for surges up to 10 kV.



**ORIENTATION**



Adjustable lateral fastening from -10° to +15°. Replacement with a new ball joint with the possibility of 360° in 5° steps.



Adjustable post-top fastening from 0° to +10° by changing the position of the piece itself. Replacement with a new ball joint with the possibility of 360° in 5° steps.



Adaptable for fastenings of different diameters (from Ø34 mm to Ø76 mm) with negative compensation in curved poles and wall arms.

**TECHNICAL QUALITY**



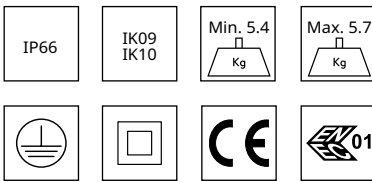
Simon has various production centres, both in Spain and around the world. All are equipped with advanced technology that allows us to maintain another of our basic principles for success: performing demanding tests and controls to guarantee the quality of all our products.



# ALTAIR IXF

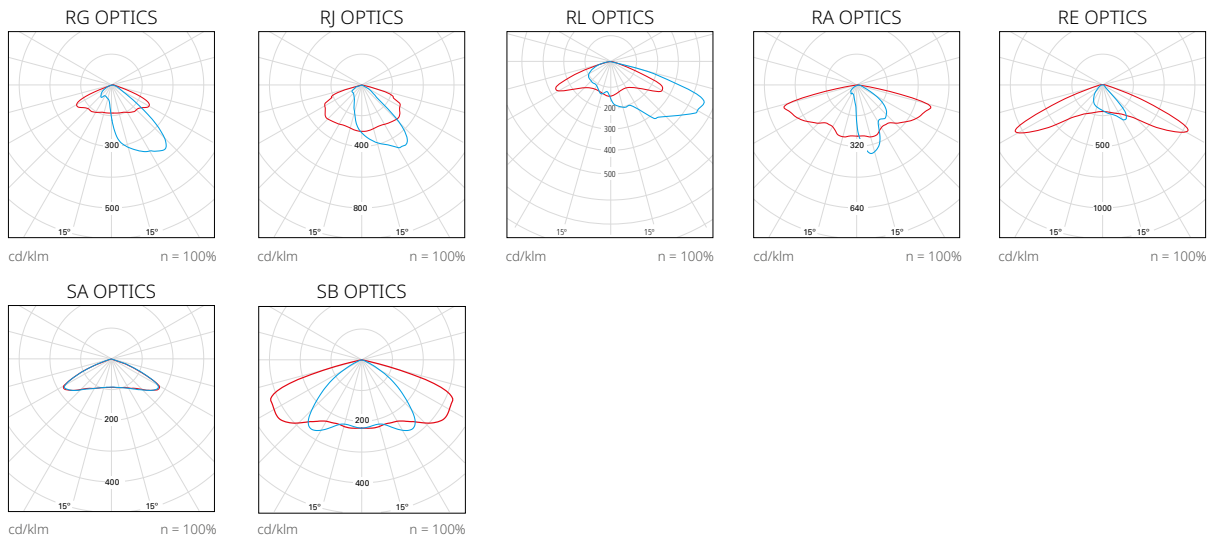
ISTANIUM<sup>®</sup>

## AMBIENT URBAN LED LUMINAIRE



COLOUR TEMP.: ND L 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K | PCA\*  
 COLOUR RENDERING INDEX: >70  
 UPWARD LIGHT OUTPUT RATIO (ULOR): <0.1 %\*\*  
 LED DURATION (L90 B10 AT T<sub>a</sub>=25 °C AND T<sub>j</sub>=95 °C): 100,000 h

\* Upon request \*\* Value may change depending on the optics



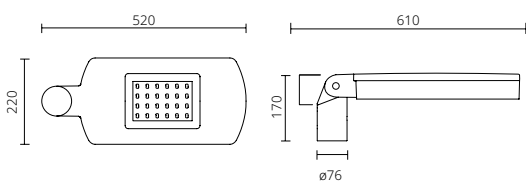
— C0 - C180 — C90 - C270

Rear hemisphere flux control visors available for RJ, RL, RE, SA and SB optics (see page 488 for more information).

Check other photometric distributions.

Simon **ALTAIR** LED decorative luminaire, size I, made of die-cast aluminium. Adjustable lateral fastening from -10° to + 15° and adjustable post-top fastening from 0° to + 10° by changing the position of the piece itself. New version with lateral fastening and adjustable post-top with ball joint that rotates 360° in 5° steps. Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor, with negative compensation on poles and wall arms. Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electrical-optical group and maintenance via the top part, fastened with four captive screws that are invisible when installed. The electro-optical group is removable and upgradeable by means of a single piece, with a disconnection mechanism for automatic disconnection. Luminaire with internal self-levelling device. Possibility of fitting an **upper Zhaga/NEMA** connector. 6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection rating for the complete luminaire, with a **pressure relief valve** to keep the pressure constant and prevent moisture from entering, and an impact resistance rating of up to IK10. Possibility of mounting up to nine multi-array optics. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. Service life of LED **L90 B10 100,000 hours**. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (**ULOR**) equal to **0%** (verify according to optics used). With **Class I** and **Class II** electronic control gear with 230 V<sub>AC</sub> / 50-60 Hz supply voltage. Possibility of including additional protection against surges of **10 kV/10 kA**. With automatic disconnection when opening the gear compartment. Optional dimming without control line (Self-dimming) 2N-, by means of cabinet amplitude dimming (CAD), for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (**CLO**). Standard finish in Simon GYDECO colour. Possibility of Simon and RAL finishes, as well as Seafront paint for corrosive environments with high durability in a **C5M** environment. Dimensions 520x170x220 mm. ENEC certified luminaire compatible with **Zhaga-D4i**.

### DIMENSIONS AND FASTENING SYSTEMS



Lateral fastening	Ø60 mm, 100 mm long, -10°, -5°, 0°, 5°, 10°, 15° inclination, with optional accessory 50-73277, Ø48 mm, 100 mm long, -10°, -5°, 0°, 5°, 10°, 15° inclination
Post-top fastening	Ø60 mm, 100 mm long, 0°, +5°, +10° inclination. Optional accessory 50-73277, Ø48 mm, 100 mm long, 0°, +5°, +10° inclination
	Both mounts can be replaced by a new ball joint with the possibility of 360° rotation in 5° steps
Surface exposed to the wind	0.066 m <sup>2</sup>
Weight	Max. 5.7 kg Min. 5.4 kg

### PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

### FINISHES

Body	Painted in GYDECO colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
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### ELECTRICAL PARAMETERS\* AND CONNECTIVITY

Temp.	-20 °C... +35 °C
Dimming**	<b>2N-</b> Without control line <b>Dxxx</b> Without custom programmed control line <b>CAD</b> Cabinet amplitude dimming <b>1N (100%)</b> Without dimming <b>1.10V</b> Regulation by means of 1.10V protocol (Consult the technical validity of the application) <b>DALI</b> Dimming through DALI input protocol (available for Class II only)

Possibility of activating the **CLO** function, which allows the depreciation of the light emitted by the LEDs to be compensated by gradually increasing the supply current to them.

Possibility of fitting a **Zhaga / NEMA** connector on the top of the luminaire and a **Zhaga** connector on the bottom of the luminaire according to Zhaga Consortium Book 18.

### Luminaires supplied by electrical grid

Supply voltage	220-240 V <sub>AC</sub>		
Frequency	50/60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos φ at max. charge)	≥ 0.95		
Luminaire electrical protection	Class I or Class II		
Optical group power by model***	12 LEDs	16 LEDs	24 LEDs
Supply current			
HIGH EFFICIENCY	12 W	16 W	24 W
HIGH BALANCE	18 W	24 W	36 W
HIGH FLUX	24 W	32 W	49 W
VERY HIGH FLUX	37 W	50 W	75 W

### REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

\* Values corresponding to the current state of technology. \*\* Check other regulations. \*\*\* Power values have a tolerance of ±7%.



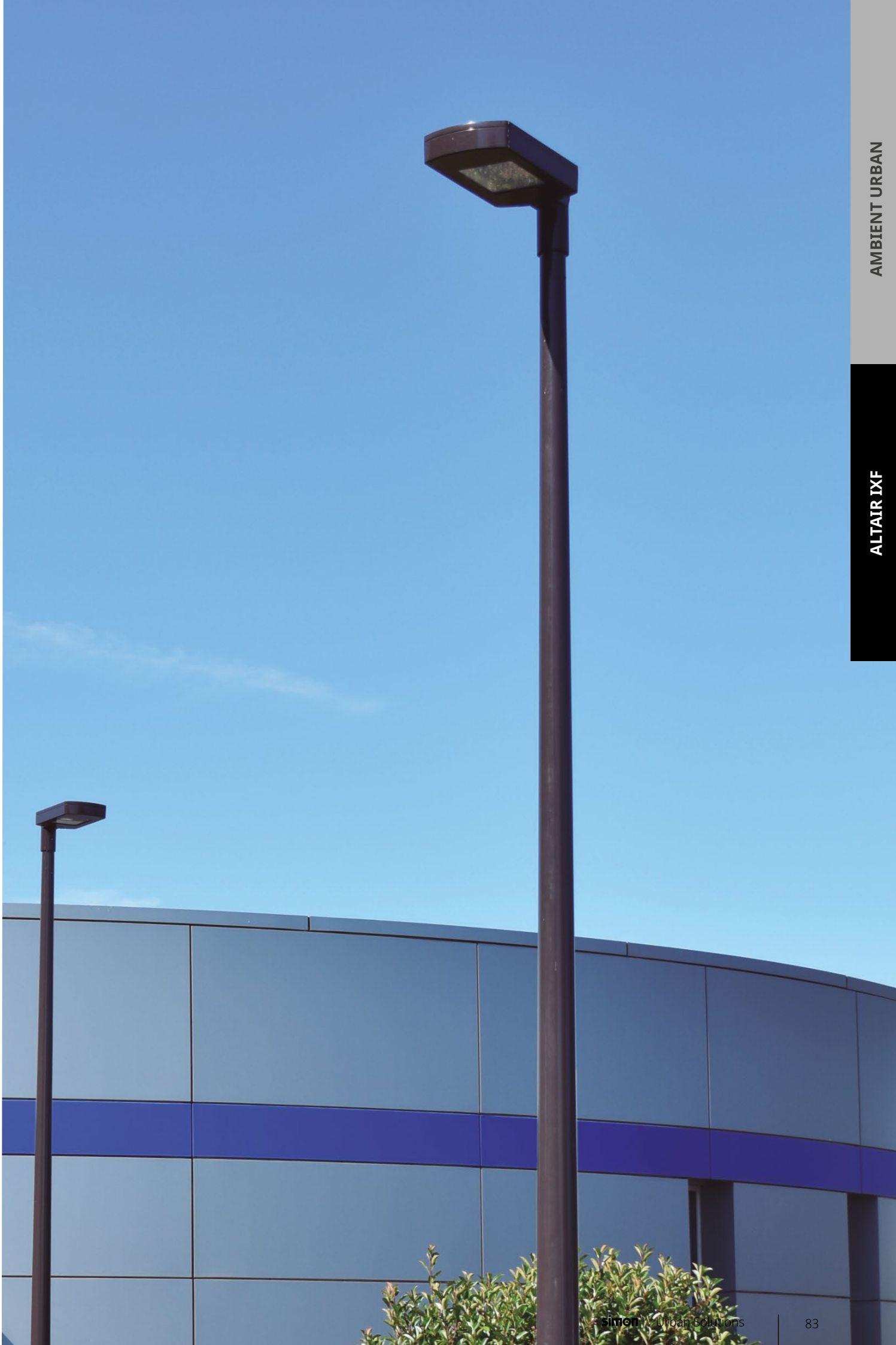
## CONFIGURE YOUR ALTAIR IXF LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Optical group power	Team	Dimming	Protection	Finish	Description
<b>ALTAIR IXF</b>										Simon ALTAIR Istanium® LED, size I, post-top and lateral fastening, flat cover
	<b>GTF</b>									Flat transparent shatter-proof tempered glass diffuser
	<b>BTF</b>									Flat transparent shatter-proof tempered glass diffuser IK10 (maximum impact resistance)
		<b>0</b>								Without installation wire (0 m)
		<b>5</b>								With installation wire (5 m)
			<b>RG_</b>							G type front road light optics
			<b>RJ_</b>							J type front road light optics
			<b>RL_</b>							L type front road light optics
			<b>RA_</b>							A type extended road light optics
			<b>RE_</b>							E type extended road light optics
			<b>SA_</b>							A Type Symmetric Optics
			<b>SB_</b>							B Type Symmetric Optics
				<input type="radio"/> <b>NDL</b>						Neutral daylight - 4,000 K
				<input type="radio"/> <b>WDL</b>						Warm daylight – 3,000 K
				<input type="radio"/> <b>SDL</b>						Soft daylight - 2,700 K
				<input type="radio"/> <b>XDL</b>						Extra warm daylight – 2,200 K
					<b>_12W350</b>					12 W 350 mA      1,870 lm to 3,000 K      12 LEDs
					<b>_18W530</b>					18 W 530 mA      2,660 lm to 3,000 K      12 LEDs
					<b>_24W700</b>					24 W 700 mA      3,360 lm to 3,000 K      12 LEDs
					<b>_37W_1K</b>					37 W 1,000 mA      4,640 lm to 3,000 K      12 LEDs
					<b>_32W700</b>					32 W 700 mA      4,340 lm to 3,000 K      16 LEDs
					<b>_50W_1K</b>					50 W 1,000 mA      5,820 lm to 3,000 K      16 LEDs
					<b>_75W_1K</b>					75 W 1,000 mA      8,180 lm to 3,000 K      24 LEDs
						<b>IA23_</b>				Electronic control gear at 230 V <sub>AC</sub> 50/60 Hz, standard protection against 6 kV power surges
						<b>IA23S</b>				Electronic control gear at 230 V <sub>AC</sub> 50/60 Hz, additional protection against 10 kV power surges
						<b>2N_</b>				Dimming without control line (self-dimming)
						<b>1N_</b>				Without dimming (on/off)
						<b>CAD_</b>				Cabinet amplitude dimming (electrical box dimmer)
						<b>1-10</b>				Dimming via 1-10V protocol input (consult the technical validity of the application)
						<b>DALI</b>				Dimming via DALI protocol input (for Class II only)
						<b>DXXX</b>				Dimming without control line (custom program)
							<b>C1</b>			Class I luminaire electrical protection
							<b>C2</b>			Class II luminaire electrical protection
								<b>GYDECO</b>		Standard finish in Simon Decorative Grey
								<b>XXXXXX</b>		Finish in Simon colours
								<b>XXXXXX</b>		Finish in RAL classic chart colours
								<b>CMxxxx</b>		Seafront Paint Finish

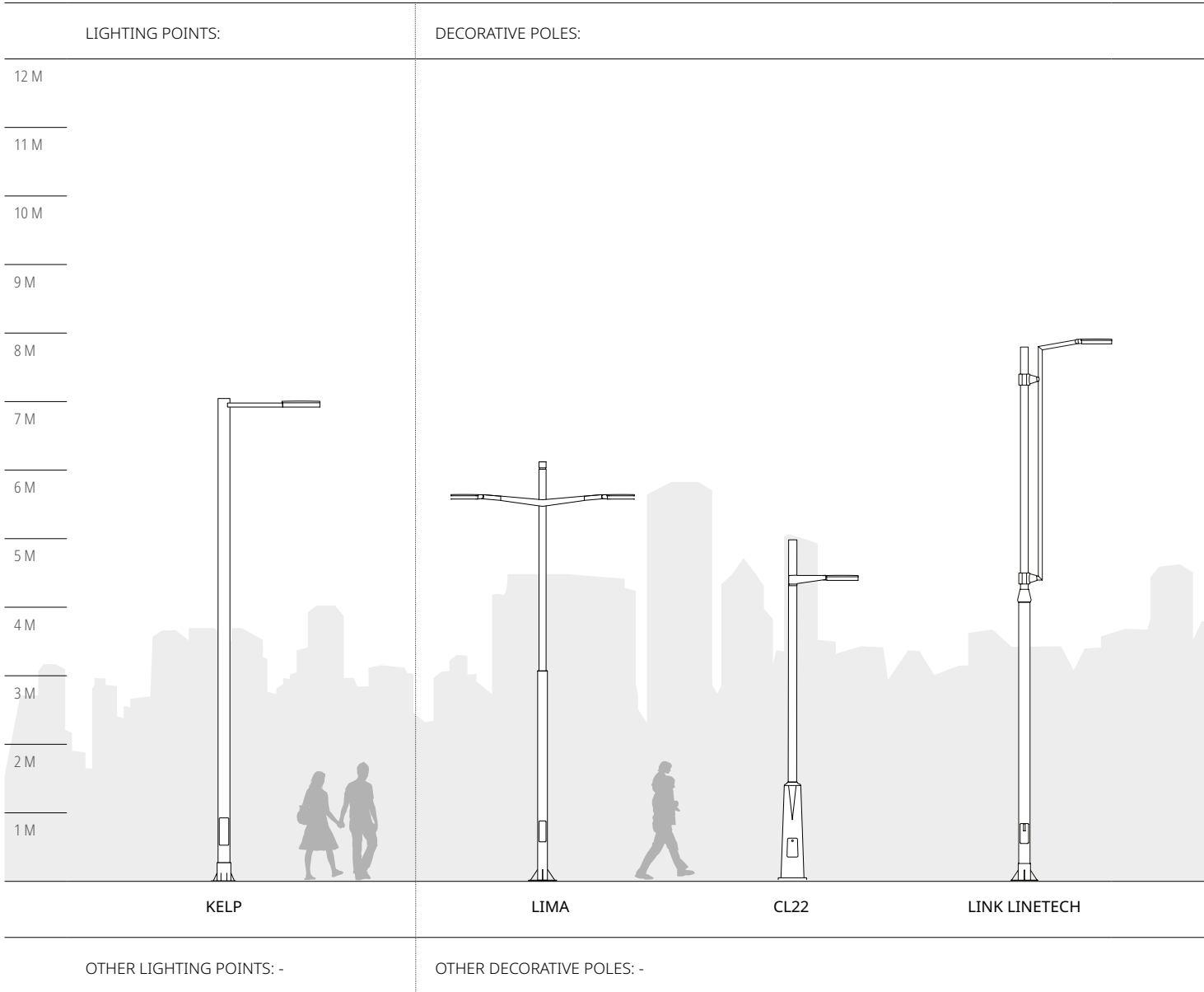
### BASE REFERENCES

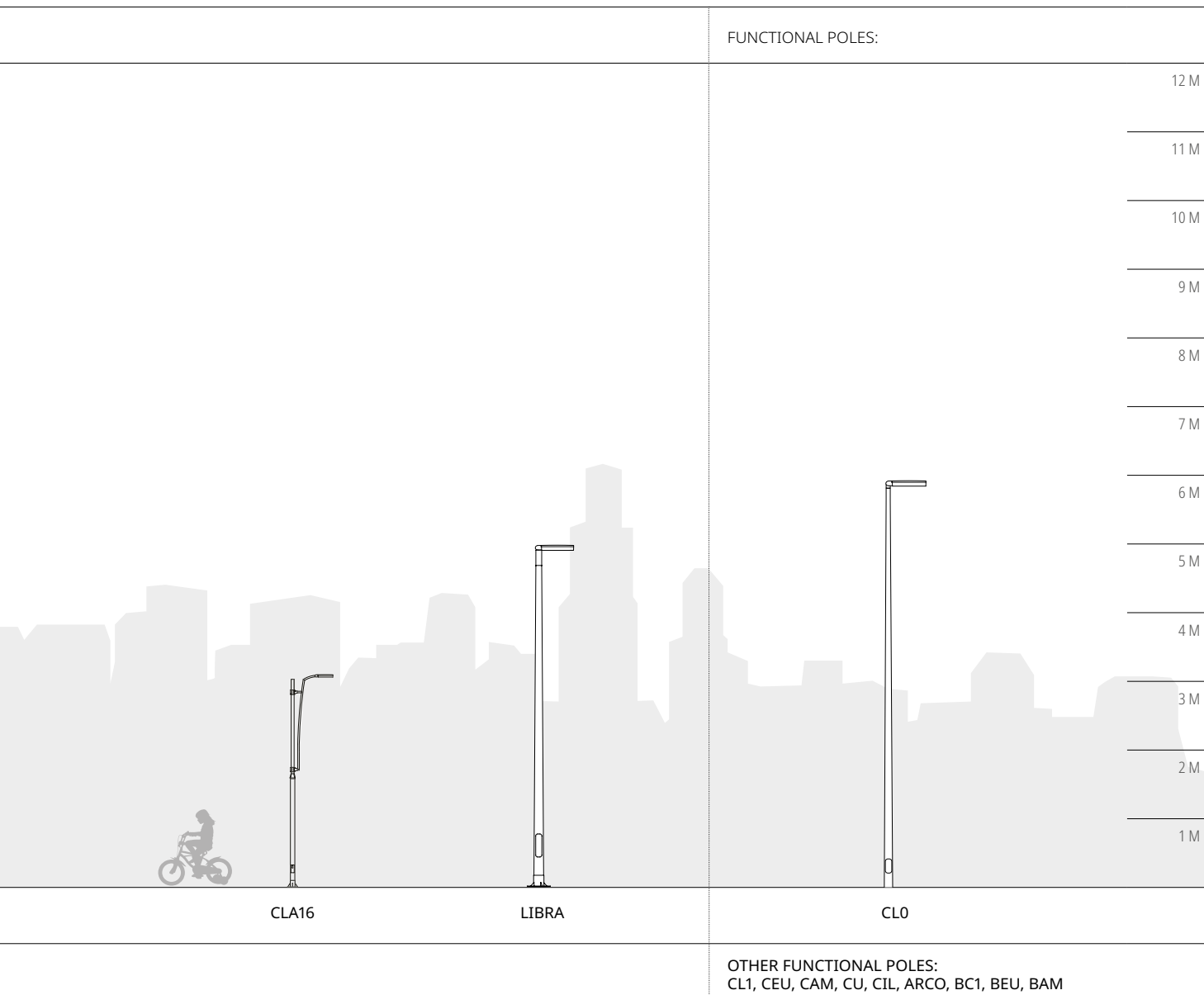
Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	ALTIXFBTFORj_WDL_12W350IA23_1N__C1GYDECO	<b>249-000762013</b>
18 W	12	530 mA	ALTIXFBTFORj_WDL_18W530IA23_1N__C1GYDECO	<b>249-000632013</b>
24 W	12	700 mA	ALTIXFBTFORj_WDL_24W700IA23_1N__C1GYDECO	<b>249-000759013</b>
32 W	16	700 mA	ALTIXFBTFORj_WDL_32W700IA23_1N__C1GYDECO	<b>249-000611013</b>
37 W	12	1,050 mA	ALTIXFBTFORj_WDL_37W_1KIA23_1N__C1GYDECO	<b>249-001424013</b>
50 W	16	1,050 mA	ALTIXFBTFORj_WDL_50W_1KIA23_1N__C1GYDECO	<b>249-000736013</b>
75 W	24	1,050 mA	ALTIXFBTFORj_WDL_75W_1KIA23_1N__C1GYDECO	<b>249-000737013</b>

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR ALTAIR IXF LUMINAIRE WITH:





ACCESSORIES / REPLACEMENTS

OTHER LUMINAIRES IN THE COLLECTION

	Description	Order code
	Reducing accessory for lateral fastening to Ø60 mm arm	50-73277
	Reducing accessory for lateral fastening to Ø42 mm arm	5-531785
	Reducing accessory for lateral fastening to Ø34 mm arm	5-531818
	Replacement diffuser glass for ALTAIR IK10	50-73598
	Fastening system replacement	50-73617



ALTAIR IYF