

EnvioLux™ Smart LED

EB23 Series

ENVIOTECH GmbH



Smart-Ready LED Luminaire for Industrial and Street Lighting (For professional use only - B2B/B2G)



Compatible with
Zhaga Book 18
DALI / D4i

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Description

EnvioLux EB23 Series: Smart-ready LED street lighting – made simple

Many cities, utilities and industrial facilities want to replace their outdated street lighting without losing control of their capital and operating costs. The EnvioLux EB23 is a professional LED street luminaire developed for reliable road and area lighting. It enables a straightforward migration from conventional technologies. With its modern LED performance, the EB23 can save up to 80 % energy compared with traditional solutions such as sodium-vapour luminaires, thus helping to reduce both energy consumption and total cost of ownership.

Designed for long-term outdoor use, the EB23 combines robust construction with a maintenance-friendly design. The luminaire is built for harsh environments and offers IP66 protection as well as IK09 impact resistance. It is specified for a service life of $\geq 100,000$ hours to enable long maintenance intervals. Installation and servicing are simplified by practical features such as a knife switch and tool-free access to the main housing of the luminaire.

The EB23 offers high light output and quality with an efficiency from 140 lm/W at 3000 K, efficient optics for road applications as well as common control options including DALI and 1–10 V dimming. Integrated surge protection supports reliable operation under real-world grid conditions.

The EB23 is designed to be future-proof for smart city projects. A Zhaga Book 18 socket combined with a DALI/D4i-compliant driver allows easy integration of remote controls and additional IoT functions. Using EnvioLux Nodes, the luminaire can be connected for smart city connectivity and the capture of weather and environmental data, so that the infrastructure can evolve without having to replace the luminaire.

Benefits

- Cost-efficient LED upgrade with up to 80 % energy savings
- Robust outdoor design (IP66 / IK09) and long service life ($> 100,000$ h)
- Smart city readiness via Zhaga Book 18 + DALI/D4i and optional EnvioLux Nodes
- High light output, dimming options and integrated surge protection



Product Overview

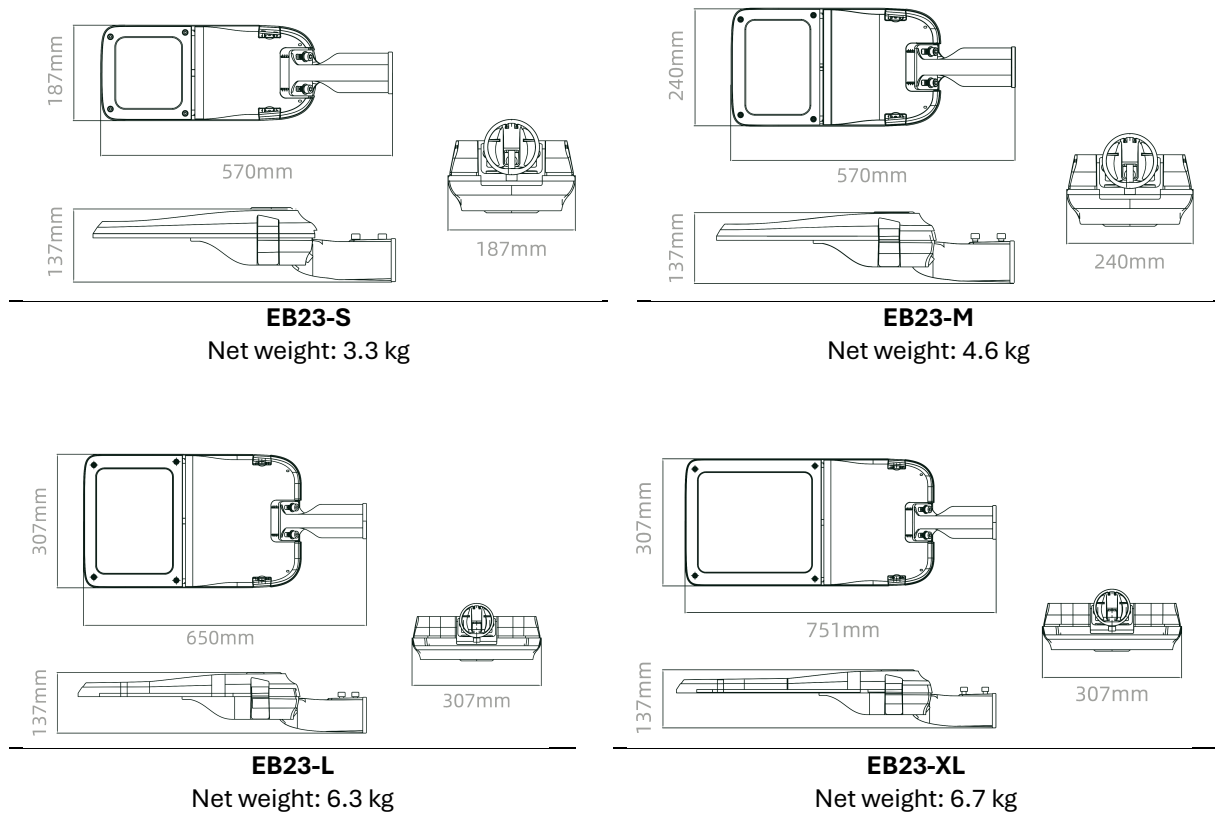
Standards	Electrical safety of luminaires - EN/IEC 60598-1 - EN/IEC 60598-2 Enclosure protection ratings - EN/IEC 60529 (IP) - EN/IEC 62262 (IK) Surge protection - IEC 61643-11 Smart interface interoperability - IEC PAS 63421:2022 (Zhaga Book 18)
Dimming	1-10 V, DALI/D4i
Housing	High-pressure die-cast aluminium
Colour	RAL 9007 (), other colours available on request
Ambient temperature	-40 °C to +50 °C
Available CCT (K)	1800 2200 2700 3000 4000 5000 5700 6500

Features		Electrical Data	
Impact resistance	IK09	Surge protection	10 kV (20 kV optional)
Service life	>100,000 h -L ₇₀ (25 °C)	Efficiency	160 lm/W (>3000 K)
Water resistance	IP66	Optics	Type I and Type II
LED driver	Inventronics (D4i)	CRI	> 70
Shielding	Tempered glass	Voltage	AC 100-240 V, 50/60 Hz
LED lens cover	UV-resistant PC	Power factor	> 0.95
LED chips	Lumileds LUXEON®	THD	<15
Other	Tool-free opening with snap fastener		

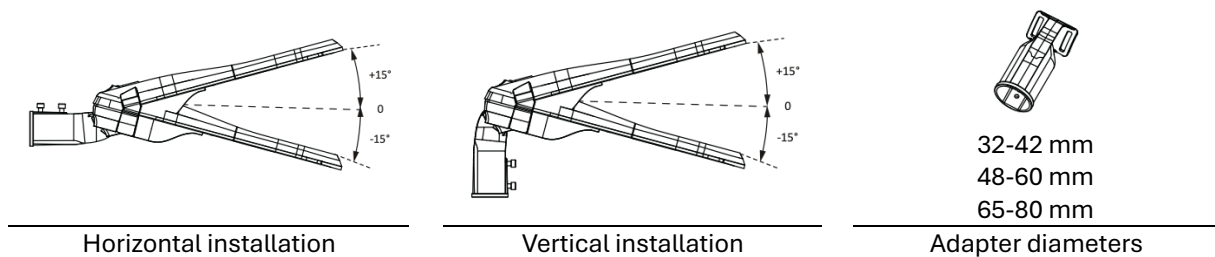
Power and Efficiency

Power (W)	50 (EB23-S)	80 (EB23-M)	120 (EB23-L)	240 (EB23-XL)
LED chip				
5050 Efficiency	160 lm/W	160 lm/W	160 lm/W	160 lm/W
Lumen	8000 lm	12800 lm	19200 lm	38400 lm

Dimensions



Flexible Mounting Adapter

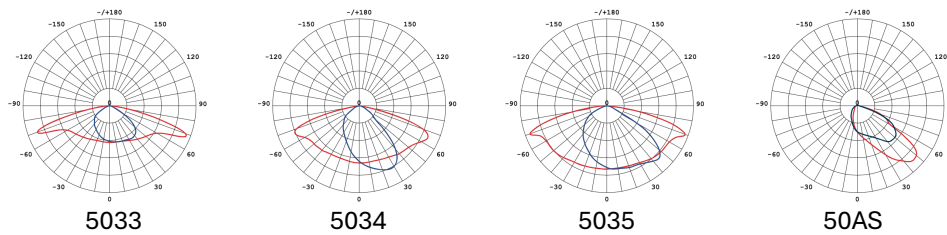


Polar Wide-Angle Diagrams (Light Distribution)



The following polar wide-angle diagrams are for the available 5050 LED chips.
(Further/specific information on request)

5050



Correspondence and Notice

EnvioLux_EB23_Datasheet_v5

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Frankfurt am Main

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All values stated in this document are typical reference values and are provided for information purposes only. Actual performance may vary depending on configuration, component availability, optics, manufacturing tolerances and ambient conditions. This datasheet does not constitute a legally binding offer and contains no representation, warranty or guarantee regarding performance. Binding specifications, declarations of conformity, warranty terms and the scope of delivery result exclusively from the respective valid contract and the delivery documents.



Figure 1: Removable main body for maintenance work: clips and spring pins

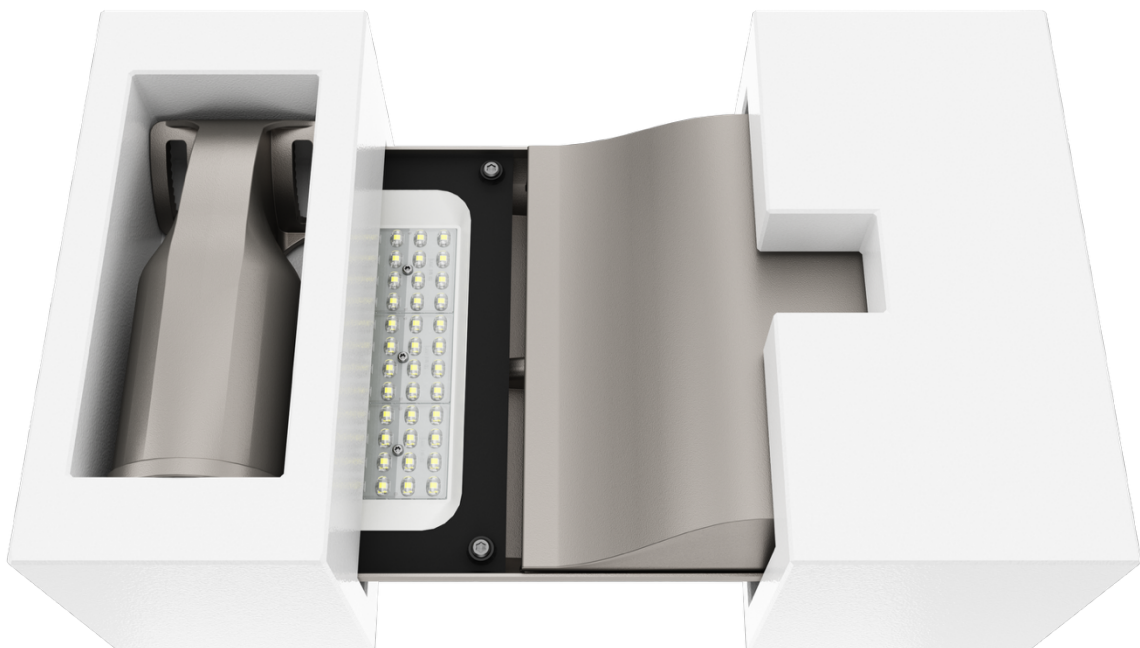


Figure 2: Luminaire with the pole adapter in the shipping packaging



Figure 3: Side view of the luminaire with exposed Zhaga Book 18 sockets



Figure 4: Top view of the top side of the luminaire with the Zhaga Book 18 socket