



Smart lighting

Alexia Zhaga

Product sheet



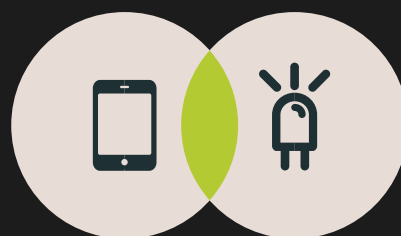
Sustainer 

Sustainer

The smartest public lighting for a better world

Sustainer is an innovative Dutch company at the forefront of the development of smart public lighting and smart city solutions. Our roots lie in the combined expertise of the former Philips/Industria luminaire factory and Dazzletek, specialized in intelligent control systems for public lighting.

At Sustainer, we understand how to design a smart city with solutions that go beyond lighting. Our vision is a future where public lighting goes beyond "just light. Within 20 years, our smart lighting solutions will positively transform city life and provide greater comfort, safety and quality of life for citizens. In this, the street lamp will serve as the central focal point and the environment as the defining factor.



A new generation of LED luminaires

Sustainer is introducing a new generation of advanced LED lighting and luminaires. Developed from our vision of the future, their modular concept and open architecture make them ready now for whatever developments tomorrow will bring. By using LED-technology, sensors and smart software, the energy consumption of Sustainer luminaires is minimized, whilst CO₂ emissions are also reduced.

Luminaire description

Sustainer's Alexia luminaire is versatile and future-proof. This luminaire gives you instant access to all the possibilities of smart lighting, both for today and tomorrow. This luminaire based on energy-efficient LED technology can be equipped with a certified Zhaga D4i module, and then linked to any (back office) system via an API. This enables remote operation and monitoring.

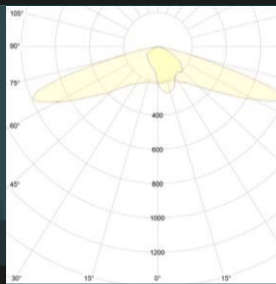
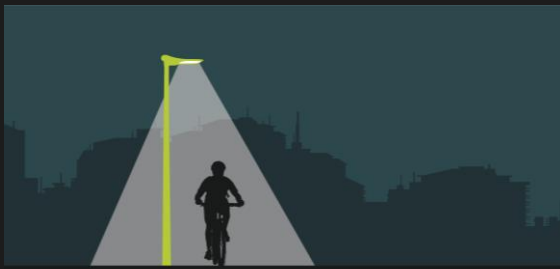
The luminaire comes equipped with various sensors which make installation easier, reduce maintenance costs and extend service life. And thanks to a unique cassette system, it is also possible to easily extend the luminaire's capabilities in the future. Just add new sensors to the cassette and turn the luminaire into an advanced smart city hub.



Advantages

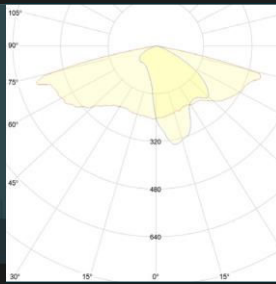
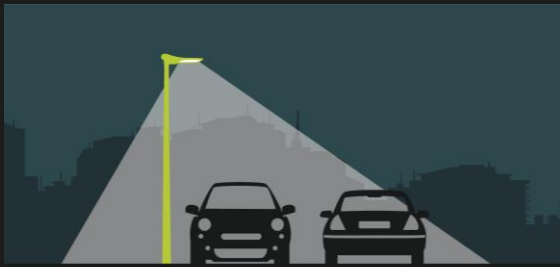
- Energy efficient LED.
- Easy to equip with connectivity and/or sensors using a Zhaga D4i module.
- Easy to expand with sensors and smart applications by simply replacing the cassette.
- No tooling required for cassette replacement, minimizing replacement times and traffic hindrance.
- Smart applications are inconspicuous by design, preventing any unrest from the public.

Bike path



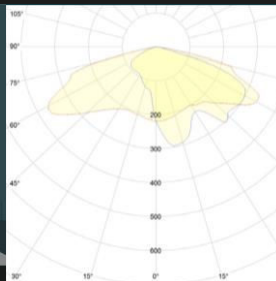
stal 1

Street symmetrical



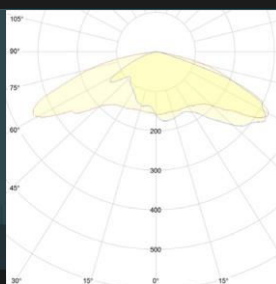
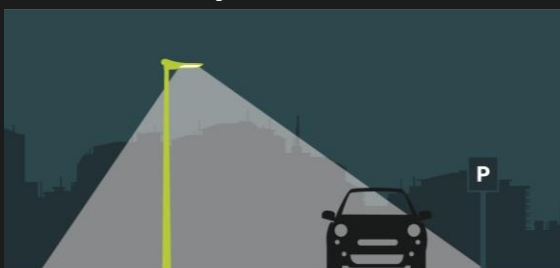
stal 2

Street asymmetrical



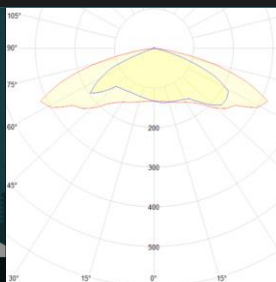
stal 3

Wide street symmetrical / Area



stal 4

Wide street asymmetrical / Area



stal 5

Optional: shades for reduction of 'backlight'.

Sustainer Alexia Zhaga

Technical specifications

Lumen/power

#LEDs	Driver	Power	Typical luminaire output (lm) – Excl. CLO ¹			
			2200K	3000K	4000K	5700K
24 LED	22W	8 – 25 W	900 – 2.900	1.000 – 3.200	1.000 – 3.200	1.000 – 3.300
32 LED	40W	26 – 46 W	3.000 – 5.300	3.300 – 5.900	3.300 – 5.900	3.400 – 6.000
	75W	47 – 81 W	5.400 – 9.400	6.000 – 10.300	6.000 – 10.300	6.100 – 10.500
48 LED ²	110W	82 – 110 W	9.500 – 12.800	10.400 – 14.000	10.400 – 14.000	10.600 – 14.300

Maintenance

LED	100.000 hrs L95 @ Ta = 25°C
Driver	100.000 hrs
Luminaire info	DALI Part 251 / ANSI C137.4

Lighting Classes (EN 13201)

Conflict areas	C0 – C5
Motorway	M3 – M6
Residential areas	P1 – P7

Color Rendering Index

CRI	>70, >80 on request
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Mains Voltage

AC	202 .. 254 V ac
Net Frequency	47 .. 63 Hz
Safety Class	I or II

Surge Protection

Mains differential mode	6 kV
Mains common mode	10 kV
Control (Zhaga) differential mode	0.03 kV
Control (Zhaga) common mode	4 kV

LED Driver

Dimmable	10 .. 100%
Dynadimmer	Optional programmed dimming scheme

Material

Housing	Die-cast aluminum LM6-quality non-corrosive
Guard	Ultra clear safety glass, flat or curved
Cassette	PC
Color	Standard: NOIR2100 / Optional: any RAL color

¹Communicated values are subject to tolerances in technology. For example, the initial flux and power consumption of the luminaire are indicative values and valid for 25°C ambient temperature. The real flux output depends on environmental conditions (such as temperature) and may vary with specific configurations. For more information please check www.sustainer.com.

²Only available for STAL2 and STAL3 optics.

Specifications may change and should be treated as an indication only. You are welcome to contact us about your needs.

Sustainer Alexia Zhaga

Technical specifications

Environmental

Operating temperature	-40 .. +55°C
IP rating	IP66
IK rating Housing	IK10

Installation

Spigot diameter	60 or 76 mm
Height	4 .. 12 m
Side entry	-20° .. +10° (in steps of 5°)
Post top	0° .. +30° (in steps of 5°)

Cable

Cable gland	M20
Cable clamping range	6 .. 11 mm

Dimensions

Length (excl. Spigot)	605 mm
Width	300 mm
Height (excl. Spigot)	134 mm
Weight	7.5 kg

Zhaga connector

Top mounted	Zhaga Interface Specification Book 18
Bottom mounted	Zhaga Interface Specification Book 18

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