



Smart lighting

Avance

Product sheet



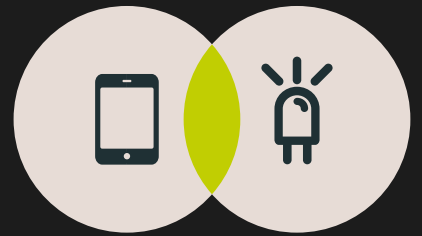
Sustainer 

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.



Crafted for light, designed for modularity

Avance is the latest addition to Sustainer's smart lighting family and the most advanced luminaire we have ever built. It combines new high- efficiency LED performance with built- in connectivity, open integrations, and a unique modular cassette system, making it simple to deploy today and effortless to upgrade tomorrow. Designed to be smart, safe, future- proof, and easy to use. It's our next step to declutter streets and turning street lighting into a modern flexible platform for data, sensors, and city services.

Smart, simple, and open

Avance is built on a fully open architecture with API and TALQ support, allowing seamless integration with GRIP and third- party back- office systems for remote control and monitoring. Out of the box, it includes onboard sensors—power, tilt, ambient light, and GNSS (GPS) — to accelerate commissioning, mapping, and diagnostics without additional hardware. Remote configuration, dimming, constant light output (CLO), energy measurement, GPS- based asset mapping, and automated error reporting are supported from first power- on to reduce maintenance costs and keep operations efficient.



Advantages

- Energy efficient LED.
- Standard remote control and monitoring through built-in connectivity.
- Easy to expand with sensors and smart applications by simply replacing the cassette.
- The cassette system allows for both top and bottom mounted sensors.
- No tooling required for cassette replacement, minimizing replacement times and traffic hindrance.
- The most interoperable system on the market.

Modular and future- proof

Our patented cassette system is the heart of Avance's flexibility. It enables tool- free replacements and rapid upgrades, minimizing downtime and traffic hindrance. Sensors can be mounted both on top and bottom or integrated directly in the cassette, so cities can add motion detection or new applications over time without replacing the luminaire. With open hardware options (24V/230V), an open API, support for Zhaga and compatibility with ecosystems such as NEMA, Avance is the most interoperable luminaire on the market.

Perfect fit for your existing ecosystem

Avance expands our line- up alongside Anne, Alexia, and Aspira, bringing higher output classes and wide applicability—from residential streets and cycle paths to through roads, industrial areas, ports, and stations. It shares the same modular cassette platform and open architecture as its siblings, ensuring consistent operations, easy maintenance, and cross- portfolio interoperability via GRIP and third- party systems. For customers already using Anne, Alexia, or Aspira, Avance slots in seamlessly and extends capabilities where more power, expandability, or dual- node sensor flexibility is required.

Possibilities and integrations

- Remote control and monitoring with GRIP or via API/TALQ with any back- office platform, for configuration, mapping, performance insights, and fleet management.
- Sensor expansion through modular cassettes or NEMA and Zhaga nodes — e.g., PIR motion detection for adaptive lighting and additional energy savings.
- Asset intelligence at the luminaire level: actual energy use, GNSS (GPS) location, and fault reporting to streamline audits, SLAs, and preventive maintenance.

The Sustainer **concept**

Our mission is to transform the public lighting network into a sustainable, future-proof and smart infrastructure.



Our **modular cassette** system makes it possible to use the public lighting infrastructure as locations for **sensors** and communication.

We believe in fully **open** technology to enable the city of the future:

- Open hardware (24V / 230V)
- Open API and TALQ
- Open standards and Zhaga-D4i



The cassette, including electronics, makes **maintenance** and **installation** very easy:

- No tooling required
- Quick cassette replacements
- Automatic error reporting and configuration



Ready for the future, today

Functionality

The Avance can be equipped with sensors through

- Zhaga node on top and bottom
- Sensors directly mounted in the cassette

Possible sensors



Camera



Sound



Movement



CO₂

Back-office connectivity

The luminaire is exceptionally easy to control and manage via any back-office system for public lighting. Use an API to hook it up to your platform for immediate and optimum control.

Luminaire features

- Energy-saving LED technology reduces CO₂ emissions.
- Dimmable.
- Constant light output (CLO) throughout full life of the LEDs (100,000 hours).
- Cassette system supports addition of further sensors in the future.

Luminaire management and maintenance

Thanks to its open architecture, the luminaire can be connected to all back-office systems, using an API. This in turn supports remote monitoring and control that enables you to:

- Configure each luminaire remotely after installation.
- Change configurations remotely.
- Map and monitor your installed base using GPS positioning.
- Monitor the performance of each luminaire remotely.
- Measure the actual energy use of each luminaire.
- Receive errors and defects on luminaire level.

Applications

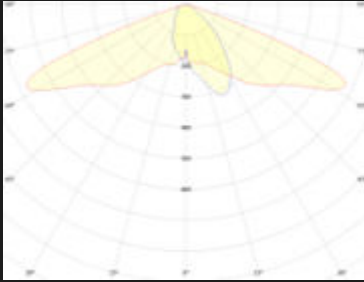
- Roads: through roads, roundabouts and cycle paths.
- Residential areas: streets, shopping centres, cycle paths, footpaths, playgrounds and car parks.
- Large sites: industrial parks, ports, airports and stations.

Quality marks

The luminaire is CE, ENEC, ENEC+, RoHS and Zhaga-D4i certified.



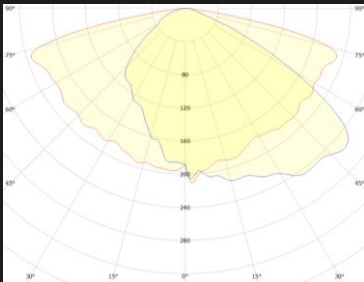
STAV11¹



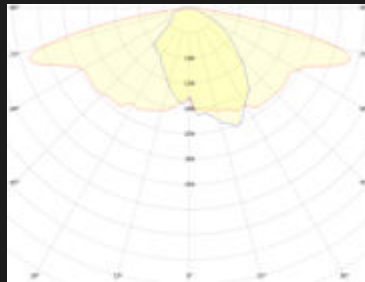
STAV12¹



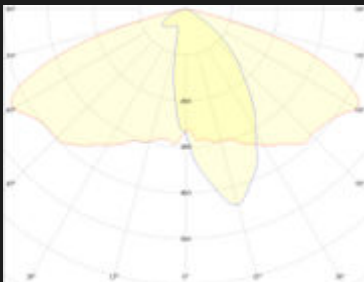
STAV13¹



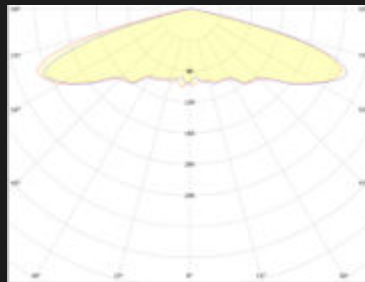
STAV14



STAV15



STAV16¹



¹Optional: shades for reduction of 'backlight'.

Sustainer Avance

Technical specifications

Lumen/power		Typical luminaire output (lm) – Excl. CLO ^{1,2}				
#LEDs	Driver	Power	2200K	2700K	3000K	4000K
48	90W	30 - 100W	3600 - 12000	4200 - 14100	4400 - 14700	4600 - 15500
64	135W	101 - 150W	12100 - 18000	14200 - 21200	14800 - 22100	15600 - 23200
80	165W	151 - 183W	18100 - 22000	21300 - 25800	22200 - 26900	23400 - 28300
96	200W	184 - 222W	22100 - 26600	25900 - 31300	27000 - 32700	28400 - 34400
LED efficiency		Up to 196 lm/W				
Maintenance						
LED		100.000 hrs L95 @ Ta = 25°C				
Driver		100.000 hrs				
Lighting Classes (EN 13201)						
Conflict areas		C0 – C5				
Motorway		M3 – M6				
Residential areas		P1 – P7				
Color Rendering Index						
CRI		>70, >80 available for 3000K				
Mains Voltage						
AC		90 - 305 V ac				
Net Frequency		50 - 60 Hz				
Electrical Class		I or II				
Surge Protection		10 kV				
LED Driver						
Dimmable		5 .. 100% of maximum				
Watchlight functionality		1W output, available for selected versions				
Material						
Housing		Die-cast aluminum ADC12-quality non-corrosive				
Guard		Tempered glass				
Cassette		PC				
Color		Standard: NOIR2100 / Optional: GRIS2150 or 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.

²Bi-color options are also available. Please contact Sustainer for more information.

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

Sustainer Avance

Technical specifications

Environmental

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

Installation

Spigot diameter	42-60mm or 76 mm
Height	4 .. 20 m
Side entry	-100° .. +30° (in steps of 5°)
Post top	-10° .. +120° (in steps of 5°)

Cable

Cable gland	M20
Cable clamping range	6 .. 11 mm

Dimensions

Length (excl. Spigot)	748 mm
Width	300 mm
Height (excl. Spigot)	105 mm
Weight	12 kg

Sensors

Standard	Power, Tilt, Ambient light, GNSS
Optional	PIR (Motion detection), Sound, Air quality, Camera

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