

AVENTO

THE ULTIMATE
ENERGY-EFFICIENT SOLUTION



DELIVERING THE HIGHEST EFFICACY FOR ROAD AND OUTDOOR AREA LIGHTING

The AVENTO offers a superior lumen/watt ratio to deliver a high-performing, energy efficient, lighting solution for various landscapes including pedestrian zones, streets, roads, car parks and motorways.

The AVENTO is the best tool to shorten the payback time of an LED lighting installation and to provide the best return on investment.

As an option, AVENTO can be equipped with a standard NEMA 7-pin receptacle or a standard Zhaga socket, enabling easy entry to the digital era of lighting with advanced lighting features that plan, monitor and control outdoor lighting networks.

The AVENTO luminaires are composed of two parts in painted die-cast aluminium. An optional highly anti-corrosive aluminium (compliant with EN AC-44300) is available for seaside and harsh environments.



AVENTO provides tool-free access to the gear compartment.

KEY ADVANTAGES

- Cost-effective and efficient lighting solution
- Superior efficacy
- Accelerated return on investment
- Easy and fast installation
- Wide temperature operating range
- Dark sky compliant: ULOR = 0%, no uplight
- Connected-ready for your future Smart city requirements (optional)

TYPES OF APPLICATION

- URBAN & RESIDENTIAL STREETS
- BIKE & PEDESTRIAN PATHS
- RAILWAY STATIONS & METROS
- CAR PARKS
- LARGE AREAS
- SQUARES & PEDESTRIAN AREAS
- ROADS & MOTORWAYS

KEY CHARACTERISTICS

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Tempered glass
Housing finish	Polyester powder coating
Standard colour	RAL 7040 window grey
Tightness level	IP 66
Impact resistance	IK 09
Access for maintenance	Tool-less access to gear compartment

** Any other RAL or AKZO colour upon request*
** Optional high anti-corrosive aluminium (compliant with EN AC-44300)*


ELECTRICAL INFORMATION

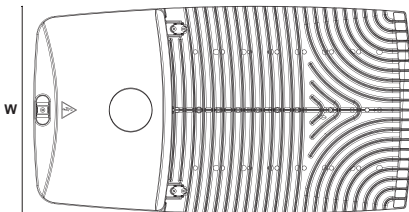
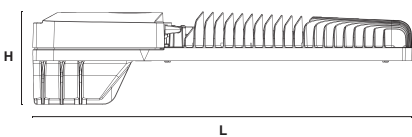
Electrical class	EU Class I
Nominal voltage	220-240V, 50-60Hz
Power factor (at full load)	0.9
Surge protection	15kA (20kA as an option)
Control protocol	1-10V or DALI (optional)
Socket	NEMA 7-pin (optional)

OTHER INFORMATION

Installation height	4 to 12m
Operating temperature range (Ta)	-40 °C to +55 °C
Lifetime residual flux @ tq 25 °C	100,000h - L90

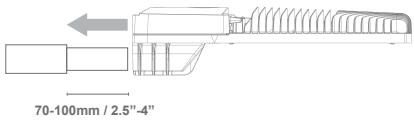
DIMENSIONS | WEIGHT

	Avento 1	Avento 2
L	485mm 19"	655mm 25.8"
W	310mm 12.2"	359mm 14.1"
H	114mm 4.5"	159mm 6.2"
 KG	8.1kg 18lbs	11.7kg 25.8lbs
CxS	0.04 m²	0.06 m²

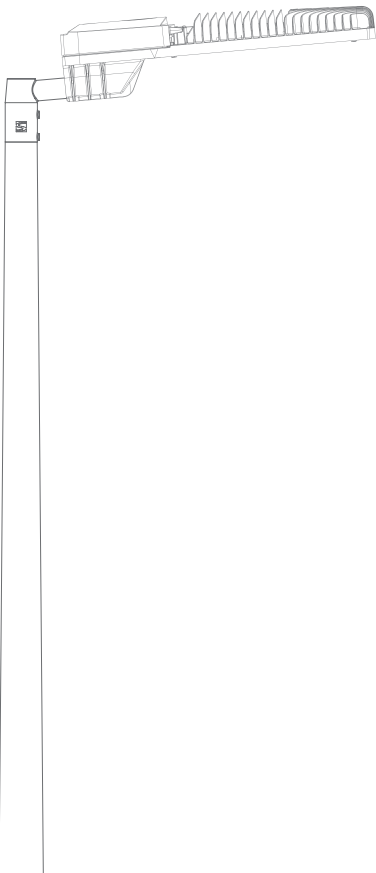
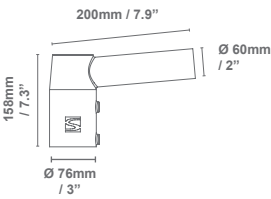
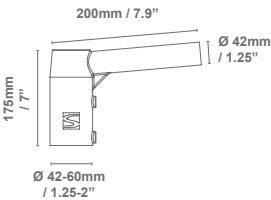


MOUNTING

The Avento luminaires offer a side-entry mounting onto a 42 to 60mm (1.5" to 2") diameter spigot.



POST-TOP ADAPTER (OPTIONAL)



SMART CITY ENABLED (OPTIONAL)

The Avento can be equipped with a standard NEMA 7-pin receptacle (provided with or without an IP 66 shorting cap), enabling an easy entry at any time to the digital era of lighting and ensuring compatibility with advanced lighting features to plan, monitor and control outdoor lighting networks.



owlet

Owlet offers numerous key advantages compared to more basic systems:

- > Easy set-up with instant GPS location and auto-commissioning
- > Smart hybrid architecture for seamless communication
- > Complete compatibility with various sensors for adaptive dimming lighting scenarios
- > Efficient asset management with precise data (highest metering accuracy on the market)
- > Safe fallback scenarios with an integrated astronomical clock and a built-in photocell
- > Based on open standards for a smooth integration with 3rd party systems
- > Web-based application and flexible user interface to provide the most versatile and user-friendly remote control system

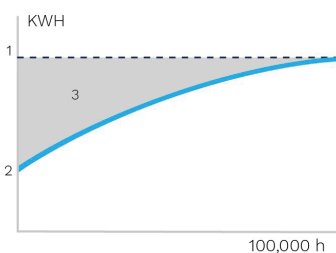
Schreder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a user-friendly way.



Constant Light Output (CLO)

This system compensates for the depreciation of luminous flux to avoid excess lighting at the beginning of the installation's service life. Luminous depreciation over time must be taken into account to ensure a predefined lighting level during the luminaire's useful life.

Without a CLO feature, this simply means increasing the initial power upon installation in order to make up for luminous depreciation. By precisely controlling the luminous flux, the energy needed to reach the required level can be maintained throughout the luminaire's life.

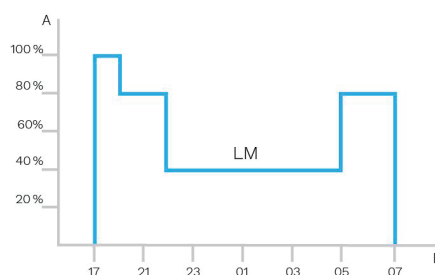


1. Standard lighting level
2. LED lighting consumption with CLO
3. Energy savings

Custom dimming profile

Intelligent luminaire drivers can be programmed with complex dimming profiles. Up to five combinations of time intervals and light levels are possible. This feature does not require any extra wiring.

The period between switching on and switching off is used to activate the preset dimming profile. The customised dimming system generates maximum energy savings while respecting the required lighting levels and uniformity throughout the night.





- A. Dimming level
- B. Time

Daylight sensor / photocell

Photocell or daylight sensors switch the luminaire on as soon as natural light falls to a certain level. It can be programmed to switch on during a storm, on a cloudy day (in critical areas) or only at nightfall so as to provide safety and comfort in public spaces.



PERFORMANCE & LIGHT DISTRIBUTIONS

	Rated Power (W)	Luminaire output flux (lm) Warm white (3000K, CRI 70)	Luminaire output flux (lm) Neutral white (4000K, CRI 70)
Avento 1 	30	3700 to 3900	3800 to 4000
	40	4400 to 4600	4600 to 4700
	50	6800 to 7100	7000 to 7300
	60	7700 to 8000	7900 to 8300
	70	9000 to 9400	9300 to 9600
	80	10700 to 11200	11000 to 11500
	90	11900 to 12400	12200 to 12700
	100	13000 to 13500	13400 to 13800
	120	15900 to 16700	16300 to 17200
	150	18100 to 18800	18600 to 19300
Avento 2 	180	22900 to 23500	23500 to 24100
	200	26100 to 26800	26800 to 27500
	240	30500 to 31300	31300 to 32100
	250	32100 to 32900	33000 to 33800

* Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$.

