NEW 2014

Schréder Ambiance Lighting Solutions

AMBIANCE

LIGHTING SOLUTIONS FOR PEDESTRIAN ENVIRONMENTS

SAFETY

Anticipating and avoiding disturbances, danger and violence is achieved by ensuring efficient lighting at crucial moments. Sensors and cameras contribute to detecting danger, emergency marking and crowd management in areas surrounding the luminaire.

WELL-BEING

Creating attractive spaces both by day and by night is strongly influenced by the ambiance and the services that the place has to offer. In addition to clean, safe and well-lit areas, people like to find features that help them in their activities. Schréder contributes to creating this added-value, by providing equipment such as smart benches and aesthetic luminaires with integrated sound systems, Wi-Fi antennas and cameras.

SUSTAINABILITY

Preserving the environment is a collective obligation. Schréder uses sustainable materials for benches, poles, luminaires and shelters. In addition our technology provides significant energy savings and high efficiency through combined LED and control solutions. Interactive solutions make it possible to only light when necessary.

SAVINGS

Schréder's complete solutions provide a crucial added value for enriching people's daily life in public areas. Our attractive, robust and long-lasting designs incorporate the latest high-performing LEDs and control systems to deliver energy efficient solutions that last longer and generate significant energy and maintenance savings.

SOLUTIONS TO MAKE PEOPLE FEEL AT HOME

Enhance your areas with light and make pedestrian zones attractive for users.

Let people come together in a convivial atmosphere, find spaces to relax, to play, to learn and exchange in an interactive and wireless connected environment.

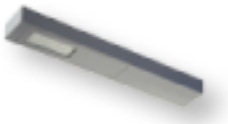
Let your space be the foundation for social interaction and a new way of life.

1. YOA 12

2. PILZEO 16

FRIZA 20

3. MODULLUM 24



4. RIVARA 28

5. STYLAGE 32

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7. AMPERA 40

TECHNOLOGY TO SERVE YOU BETTER

LENSOFLEX®2: EFFICIENCY, FLEXIBILITY, SUSTAINABILITY AND PERFORMANCE

SCHRÉDER HAS SPECIFICALLY DEVELOPED SECOND GENERATION LENSOFLEX®2 PHOTOMETRIC ENGINES FOR LIGHTING SPACES IN A SUSTAINABLE AND EFFICIENT WAY, TO GENERATE SAVINGS BOTH IN TERMS OF TOTAL COST OF OWNERSHIP AND CO_2 EMISSIONS.

The LensoFlex®2 builds on the flexibility offered by a selection of lenses. To perfectly meet the needs of each kind of place to be lit, Schréder has designed a large range of photometries.

This concept is based upon the addition principle of photometric distribution. Each LED is associated with a specific lens that generates the complete photometric distribution of the luminaire. It is the number of LEDs in combination with the driving current that determines the intensity level of the light distribution.

The LensoFlex®2 concept has been used by Schréder as a platform to build a state-of-the-art range of LED lighting solutions that provide significant energy savings and offer flexibility both in terms of performance and control while ensuring a long lifespan.

LENSOFLEX®2 LED COMBINATIONS: FLUX, CURRENT AND POWER CONSUMPTION

		LENSOFLEX®2										
Number of LEDs	Neutral white (4,250K)[1]	16 LEDs	24 LEDs	32 LEDs	40 LEDs	48 LEDs	56 LEDs	64 LEDs	72 LEDs	80 LEDs	88 LEDs	96 LEDs
Current: 350mA	Nominal flux (lm)[2]	2200	3400	4500	5700	6800	8000	9100	10200	11400	12500	13700
	Power consumption (W)[3]	18	27	36	44	53	62	70	78	86	94	102
Current: 500mA	Nominal flux (lm)[2]	3000	4500	6000	7500	9000	10550	12000	13500	15100	16600	18100
	Power consumption (W)[3]	26	38	51	63	75	87	99	111	122	134	146
Current: 700mA	Nominal flux (lm)[2]	3800	5800	7700	9700	11600	13600	15500	17500	19400	21300	23300
	Power consumption (W)[3]	36	55	71	90	107	123	139	163	180	196	213

									Lifetime residual flux @ t_q 25°C [14]
104 LEDs	112 LEDs	120 LEDs	128 LEDs	136 LEDs	144 LEDs	192 LEDs	240 LEDs	288 LEDs	@100.000h
14800	16000	17100	18300	19400	20500	27400	34300	41100	90%
116	124	132	140	147	155	208	257	311	
19600	21100	22600	24100	25600	27100	38400	48000	-	
163	174	186	198	210	221	309	391	-	
25200	27200	29100	31100	-	-	-	-	-	80%
229	245	262	279	-	-	-	-	-	

[9] Warm white (3100K) and cool white (6200K) available. All with a CRI>70.

[14] The nominal flux is an indicative LED flux @ t_j 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.
Nominal flux depends on the type of LED in use and likely to change in accordance with the continuous and rapid developments in LED technology.

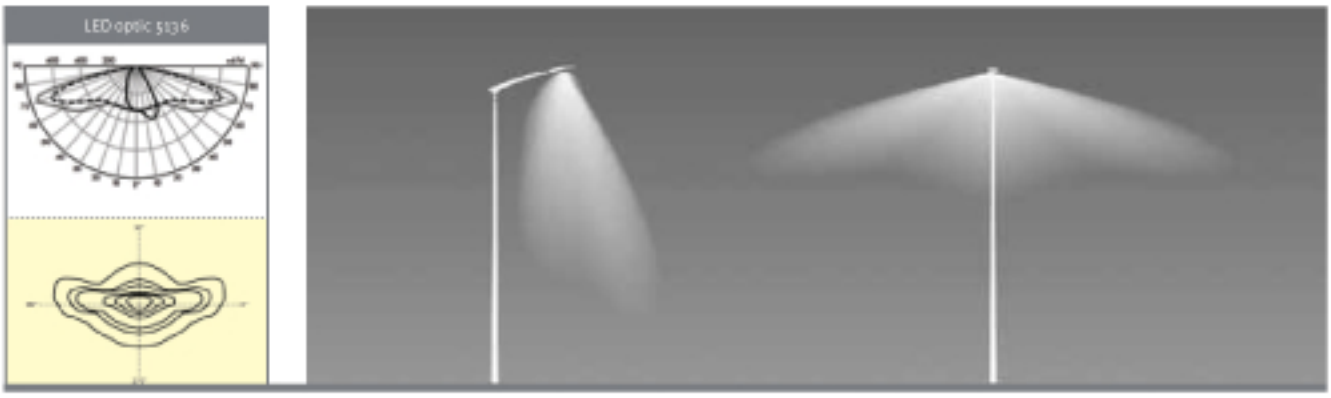
[15] The power consumption is an indication and may vary from luminaire to luminaire.

[60] After 100,000 hours at a driving current of 350 or 500mA, the luminaire maintains 90% of its initial luminous flux. When functioning under 700mA, the luminaire maintains 80% of its initial luminous flux after the same period of 100,000 hours. These indicative figures are based on IES LM-80 - TM-21. They are valid when the average performance temperature (Tq) did not exceed 25°C and the maximum ambient temperature (Ta) for the luminaire is respected.

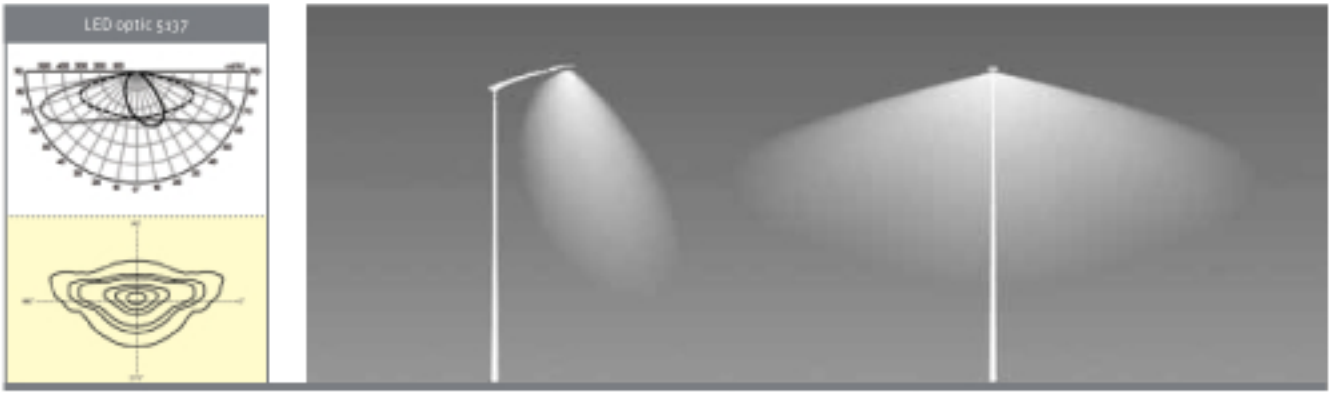
Note: certain values may change. For more accurate information and to follow the progress of the luminous efficiency and lumen maintenance of the LEDs used, please visit our web site.

TYPICAL LIGHT DISTRIBUTIONS

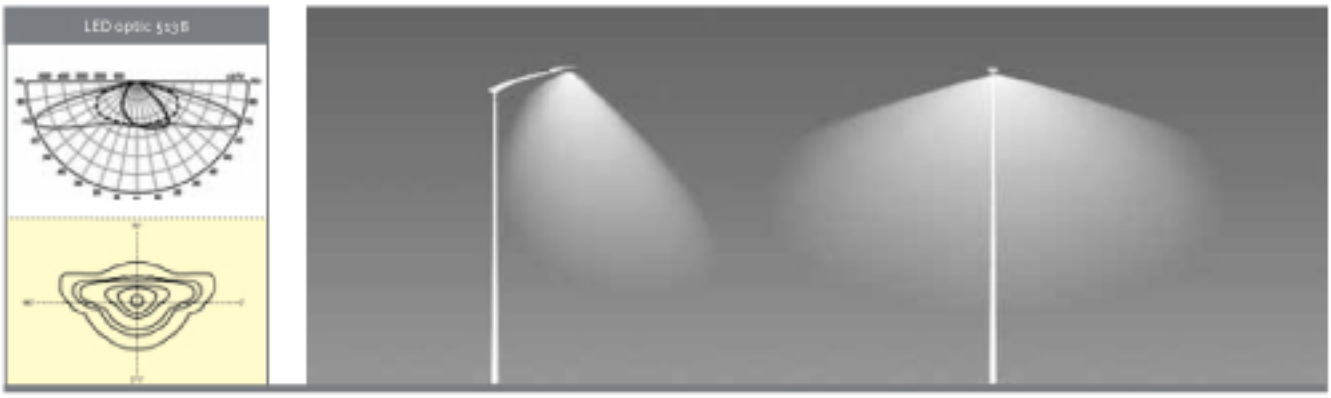
LED optic 5136



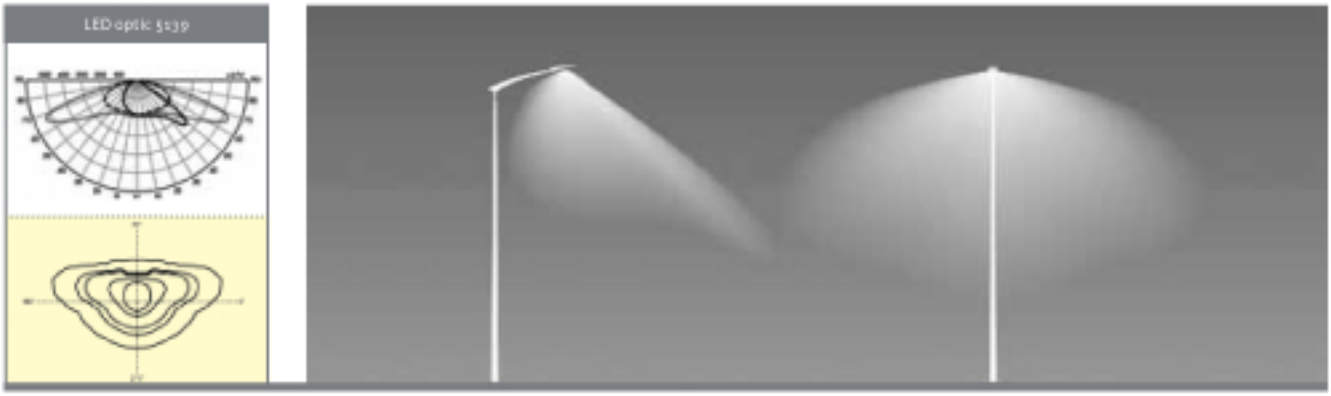
LED optic 5137



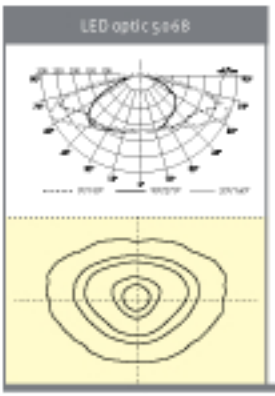
LED optic 5138

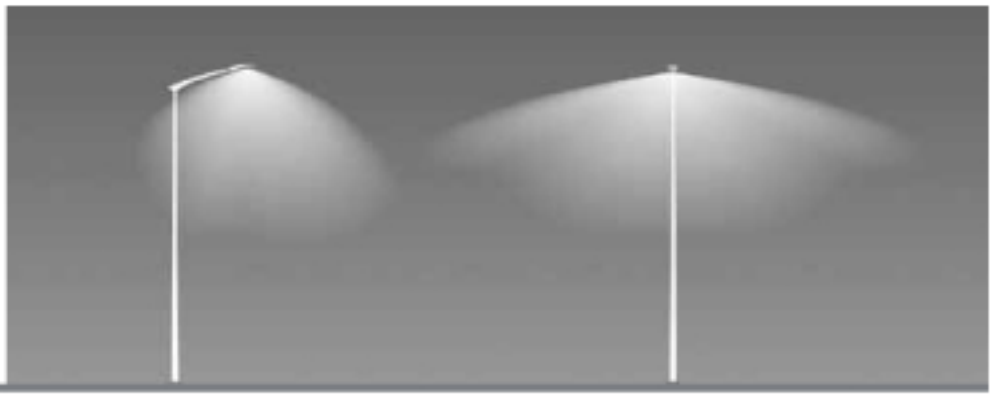


LED optic 5139

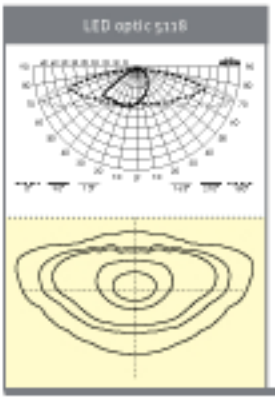


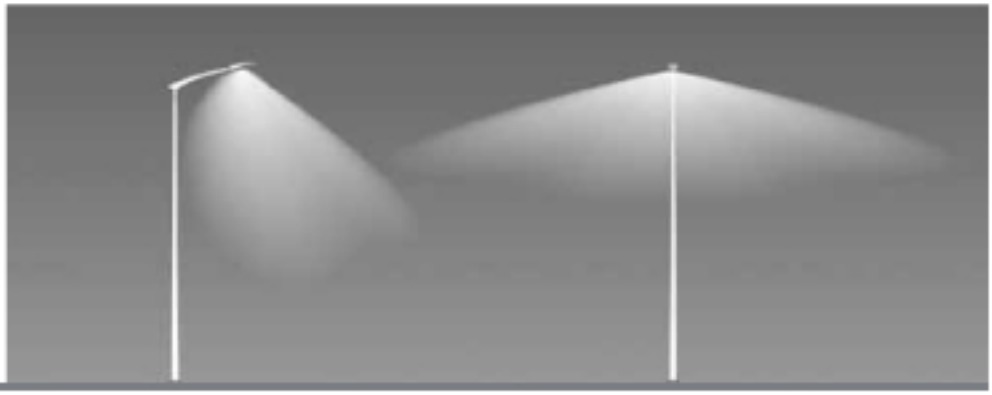
LED optic 5168



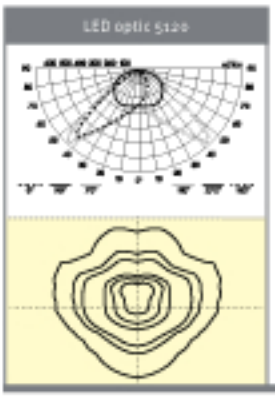


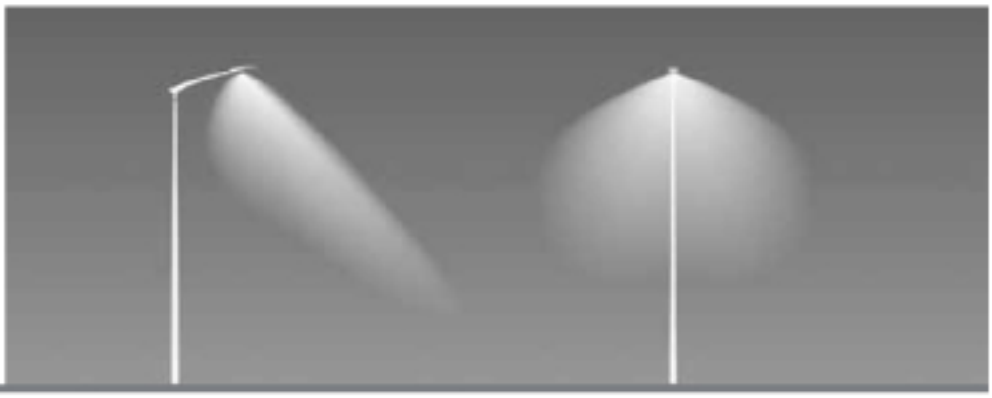
LED optic 5118



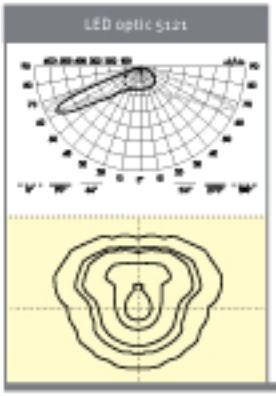


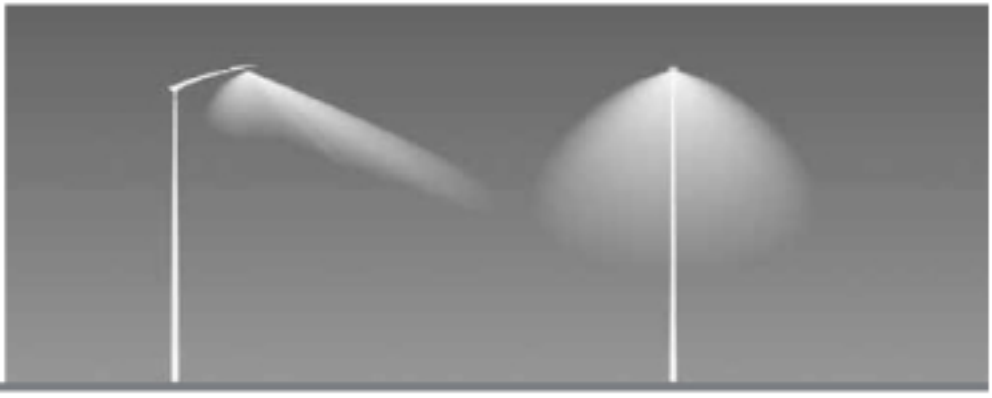
LED optic 5120





LED optic 5121





For more light distributions, please visit our web site or contact your local sales representative.

Owlet
CONTROL SOLUTIONS

READY TO BE A SMART CITY?

One of the major concerns for cities is the reduction of public expenditure. A large chunk of this spending goes on energy bills, with public lighting accounting for 40% of the total. Thanks to Owlet, the smart control solutions offered by Schréder, cities and building managers can reduce their energy bills by up to 85%. In addition, they manage expenses more efficiently, improve maintenance and asset management and provide increased safety with enhanced well-being for their citizens.

OWLET OFFERS 3 TYPES OF CONTROL SOLUTIONS, FROM BASIC TO ADVANCED

STAND-ALONE SOLUTIONS

RECOMMENDED FOR BASIC SMART LIGHTING

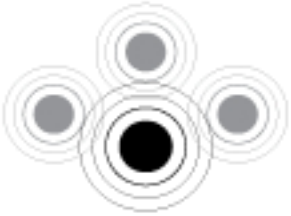
Each luminaire is fitted with a control unit and can be managed independently. This type of control system is ideal for areas with little activity at night such as pedestrian areas, parks, car parks and warehouses. Owlet stand-alone solutions encompass:

- **intelligent drivers** with features such as an astronomical clock for a constant adaptation of the dimming profile, constant light output to eliminate overlighting and scheduled dimming with multi-level programmes;
- integrated **photocells** to switch the luminaire on or off following the level of natural light;
- **motion and speed detection** sensors that enable interactive dimming.

AUTONOMOUS NETWORK

RECOMMENDED FOR RESPONSIVE AREAS

The Autonomous Network Dimming system enables **luminaires to communicate together in a wireless network** to provide dynamic profile dimming. The dimming profile can easily be changed by simply connecting wirelessly a laptop to one luminaire without using any tools. The new configuration will be deployed to all the luminaires in the network. This system can be enhanced with motion and speed detection sensors. When motion is detected, the detection scenario supplants the dimming scenario to provide safety and comfort for users. The sensors can be centralised or decentralised. Each luminaire is fitted with a control unit and can be managed independently. The autonomous network is perfectly suited to streets, roads, squares, parks, sport fields etc.



INTEROPERABLE NETWORK

RECOMMENDED FOR ENTIRE LIGHTING INSTALLATIONS (ROADS, STREETS, TUNNELS,...)

The Schréder Owlet Nightshift is a remote control system for monitoring, metering and managing a lighting network. **It is a unique combination of state-of-the-art technology and an easy-to-use web interface to control each luminaire at all times from anywhere in the world.** Thanks to bi-directional communication, the operating status, energy consumption and possible failures can be monitored. Thanks to its open source Zigbee technology and its flexible MySQL workflow, the Nightshift system can easily be associated to third party systems through data bridges. This flexibility increases the functionalities far beyond lighting.

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INTERACTIVITY

LIGHT ONLY WHEN NECESSARY

TO ADAPT LIGHTING TO REAL NEEDS, OUR SOLUTIONS INCLUDE SENSORS. THEY MEASURE NATURAL LIGHT LEVELS, MOTION OR SPEED TO PROVIDE LIGHT ONLY WHERE AND WHEN IT IS NECESSARY. THIS FEATURE ENABLES YOU TO AVOID UNNECESSARY LIGHTING IN FAVOUR OF ENERGY SAVINGS.

DAYLIGHT SENSORS

Our solutions can be managed by photoelectric sensors that switch on the luminaires exactly when natural light becomes insufficient (cloudy day, night fall...) so as to **provide safety and comfort in the public space**.

MOTION SENSORS

In places with little nocturnal activity, the lighting can be dimmed to a minimum most of the time. By using motion sensors, levels can be raised as soon as a pedestrian or a slow vehicle is detected in the area.

SPEED AND DIRECTION SENSORS

Speed (and direction) sensors on the other hand, work with a wider detection area to classify the identified moving item following its speed and its direction.

This classification provides **the right response according to predefined lighting scenarios**. These light-on-demand functions enhance the safety and the well-being of the users while saving energy.

owlet

CONTROL

AS EASY AS SURFING THE INTERNET

FROM BEHIND YOUR COMPUTER OR YOUR MOBILE DEVICE, YOU CAN MANAGE YOUR LIGHTING INSTALLATION VIA YOUR WEB BROWSER. THE USER-FRIENDLY INTERFACE IS VERY INTUITIVE AND EASY-TO-USE.

JOIN THE OWLET MOVEMENT!

LIKE SAN JOSÉ, CALIFORNIA - CAPITAL OF SILICON VALLEY, CRADLE OF THE DIGITAL REVOLUTION - NUMEROUS CITIES ALL OVER THE WORLD TRUST THE OWLET SOLUTIONS TO ACHIEVE THEIR AMBITIOUS TARGETS OF REDUCING CO_2 EMISSIONS AND ENERGY COSTS.

YOA

Design
Michel Tortel

ENERGY EFFICIENT URBAN LIGHTING SOLUTION WITH A TOUCH OF AMBIANCE

DESIGNED FOR URBAN APPLICATIONS, THE YOA LUMINAIRE PROVIDES A TOUCH OF AMBIANCE TO CREATE IDENTITY IN THE CITY LANDSCAPE.

Yoa is a contemporary interpretation of the classical range Citea - Maya - Scala – one of Schréder's best-sellers in urban lighting – based on LED technology. It is equipped with the second generation LensoFlex®2 photometric engine which offers a high-performance photometry optimised for each specific application with minimised energy consumption.

Built with recyclable materials - aluminium and glass - the Yoa luminaire is proposed in two sizes:

- **Yoa Midi** is particularly suited to lighting residential areas, urban roads, parks, squares, pedestrian zones,...
- **Yoa Maxi** is ideal for large avenues and main roads.

The Yoa range offers flexible combinations of LED modules, driving currents and dimming options to provide the most cost-effective solution while improving comfort and safety for people.

The Yoa is available for side-entry, post-top or suspended mounting.

A catenary version is also available.

LED

LensoFlex®2

owlet

YOA

CHARACTERISTICS

Installation height	4 to 10m
Lumen package range (nominal flux)	2,200 to 23,300lm
Colour temperature	Neutral or warm white
Optical compartment tightness level	IP 66 (*)
Control gear tightness level	IP 66 (*)
Impact resistance (glass)	IK 08 (**)
Nominal voltage	230V - 50Hz
Electrical class	I or II (*)
MATERIALS	
Body	Aluminium
Protector	Flat glass
Colour	Any RAL or AKZO colour

(*) according to IEC - EN 60598 | (**) according to IEC - EN 62262

»KEY ADVANTAGES

- Maximised savings in energy and maintenance costs
- LensoFlex®2 offering high performance photometry, comfort and safety
- LED modules with flexible combinations of LEDs
- FutureProof
- ThermiX®
- Surge protection 10kV
- Designed to incorporate Owlet range of control solutions

MAIN APPLICATIONS

NARROW ROAD

RESIDENTIAL STREET

MOTORWAY

URBAN ROAD

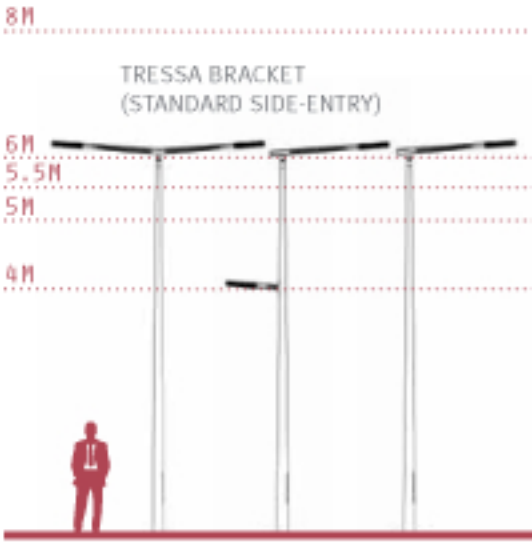
MEDIUM AREA

LARGE AREA

OPTIONS

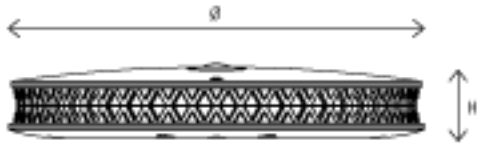
- Catenary version
- Warm white LEDs

COLUMNS AND BRACKETS



DIMENSIONS

	Yoa Midi	Yoa Maxi
Ø	500mm	650mm
H	90mm	90mm



MOUNTING

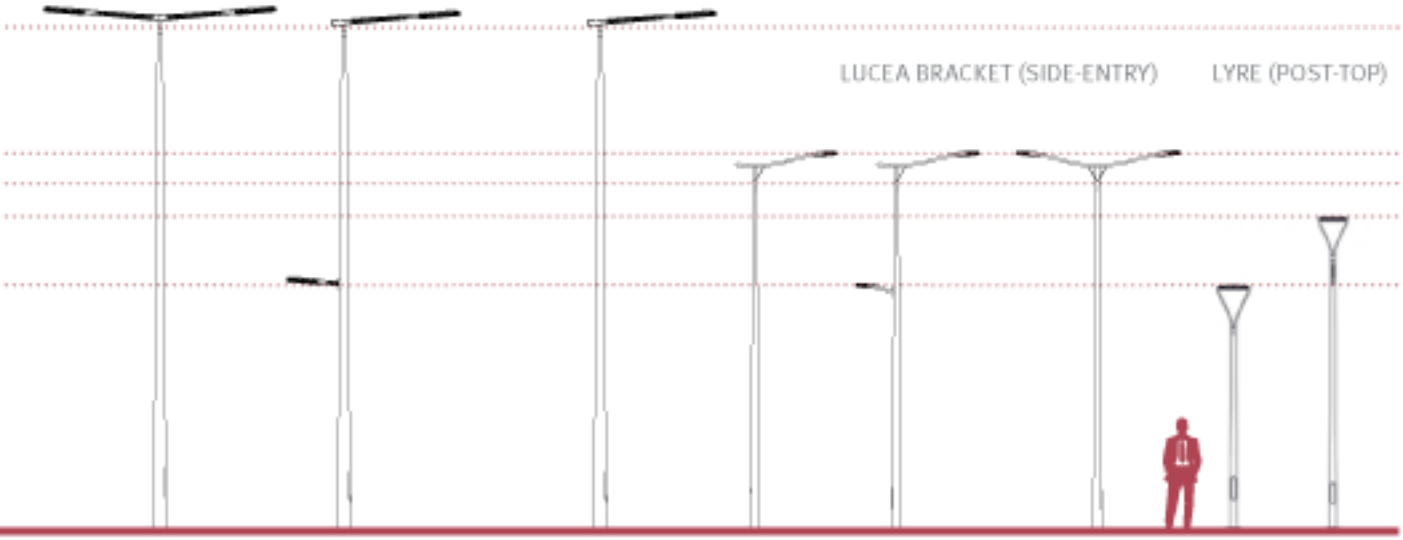
The Yoa luminaire offers slip-over mounting onto a bracket with a 60mm diameter spigot (length 100mm).

A special bracket and pole for side-entry and post-top mounting are available (option).

TRESSA
(STANDARD SIDE-ENTRY)

LUCEA
(OPTIONAL SIDE-ENTRY)

LYRE
(OPTIONAL POST-TOP)



PILZEO

Design
Achilles Design

ELEGANT AND COST-EFFECTIVE SOLUTION WITH CUTTING-EDGE LED TECHNOLOGY

THE POST-TOP LUMINAIRE PILZEO TRANSFORMS THE CLASSIC 'MUSHROOM' LANTERN INTO A CONTEMPORARY DESIGN. BASED ON THE PROVEN LENSOFLEX®2 LED ENGINE, THE PILZEO ENSURES PHOTOMETRIC PERFORMANCE TO PROVIDE SAFETY AND WELL-BEING IN THE PUBLIC SPACE.

The Pilzeo luminaire is adapted to various urban landscapes such as residential areas, parks, squares, bicycle paths and historic urban centres. As a sustainable lighting tool, the Pilzeo makes it possible to achieve energy savings that can reach up to 75% compared with traditional luminaires.

The materials used are of excellent quality. The base section and body are made of high-pressure die-cast aluminium while the protector and the cover are composed of polycarbonate.

Thanks to the design of the Pilzeo luminaire, no tools are needed for any potential maintenance operations.

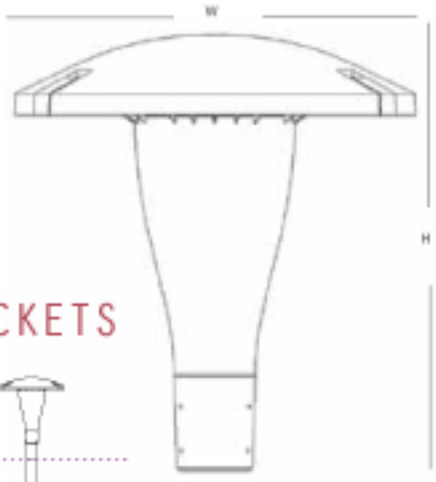
CHARACTERISTICS

Installation height	3.5 to 5m
Lumen package range (nominal flux)	1,900 to 5,800lm
Colour temperature	Neutral or warm white
Optical compartment tightness level	IP 66 (*)
Control gear tightness level	IP 66 (*)
Impact resistance (glass)	IK 08 (**)
Nominal voltage	230V - 50Hz
Electrical class	I or II (*)
MATERIALS	
Cover	Polycarbonate
Base section	High-pressure die-cast aluminium
Gear tray	High-pressure die-cast aluminium
Protector	Polycarbonate
Colour	AKZO grey 900 sanded

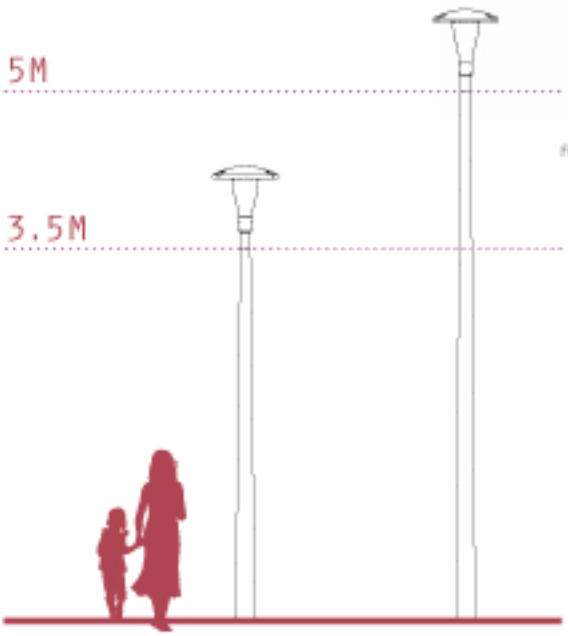
(*) according to IEC - EN 60598 | (**) according to IEC - EN 62262

DIMENSIONS

W	524mm
H	530mm



COLUMNS AND BRACKETS



Fixation on Ø 76mm pole (3 x 2 M6 screws)

»KEY ADVANTAGES

- Cost-effective lighting solution for creation of ambiance
- Elegant design for low height installation
- No tools needed for maintenance operations
- IP 66 tightness level for long lasting performance
- Surge protection 10kV
- Designed to incorporate Owlet range of control solutions

MAIN APPLICATIONS

RESIDENTIAL STREET

SQUARE

NARROW ROAD

FRIZA

Design
Achilles Design

MODERN CLASSIC DESIGN FOR COST-EFFECTIVE RESIDENTIAL LIGHTING

ADAPTED TO LIGHT VARIOUS URBAN LANDSCAPES SUCH AS RESIDENTIAL AREAS, PARKS, SQUARES, BICYCLE PATHS AND URBAN CENTRES, THE FRIZA LUMINAIRE COMBINES A TIMELESS DESIGN WITH THE ENERGY EFFICIENCY OF LED TECHNOLOGY.

Thanks to the LensoFlex®2 LED engine, it ensures photometric performances to provide safety and well-being in the public space. As a sustainable lighting tool, Friza makes it possible to achieve energy savings that can reach up to 75% compared with traditional light sources.

The materials used are of excellent quality. The base section and gear plate are made of high-pressure die-cast aluminium while the protector and cover are made of polycarbonate.

The Friza luminaire is available in a tool free version to facilitate any potential maintenance operations (optional).

LED

LensoFlex®2

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CHARACTERISTICS

Installation height	3.5 to 5m
Lumen package range (nominal flux)	1,900 to 6,800lm
Colour temperature	Neutral or warm white
Optical compartment tightness level	IP 66 (*)
Impact resistance (polycarbonate)	IK 08 (**)
Nominal voltage	230V - 50Hz
Electrical class	I or II (*)
MATERIALS	
Top cover	Polycarbonate
Base section	High-pressure die-cast aluminium
Gear plate	High-pressure die-cast aluminium
Protector	Polycarbonate
Colour	AKZO grey 900 sanded Any other RAL or AKZO colour upon request

(*) according to IEC - EN 60598 | (**) according to IEC - EN 62262

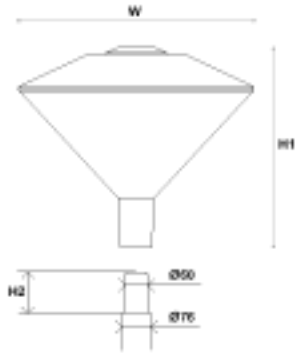
»KEY ADVANTAGES

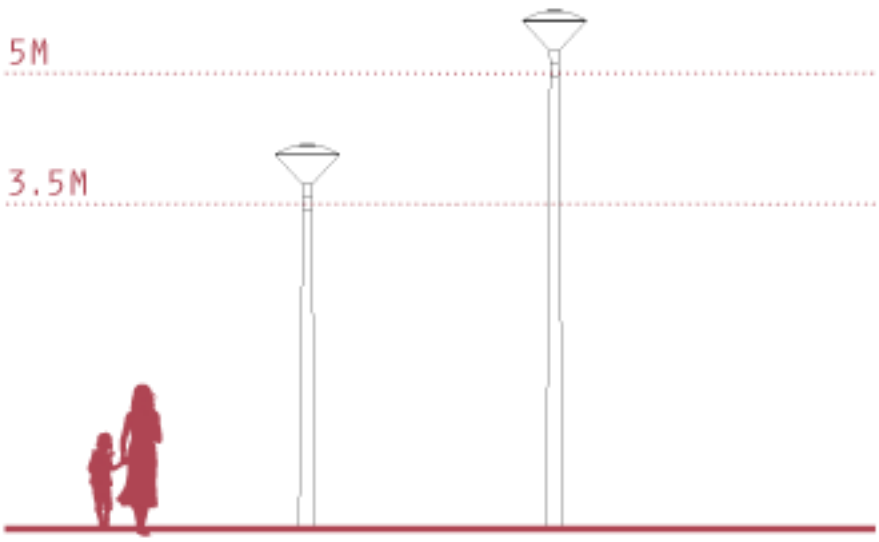
- Cost effective lighting solution for creation of ambiance
- IP 66 tightness level
- Tool free access for maintenance (optional)
- Luminaire supplied pre-wired to facilitate its installation
- FutureProof: easy replacement of the photometric engine and electronic assembly
- Surge protection 10kV
- Designed to incorporate Owlet range of control solutions

DIMENSIONS | MOUNTING

W	564mm
H1	462mm
H2	100mm

The Friza luminaire offers slip-over mounting onto a 60mm diameter spigot (2 M8 screws).





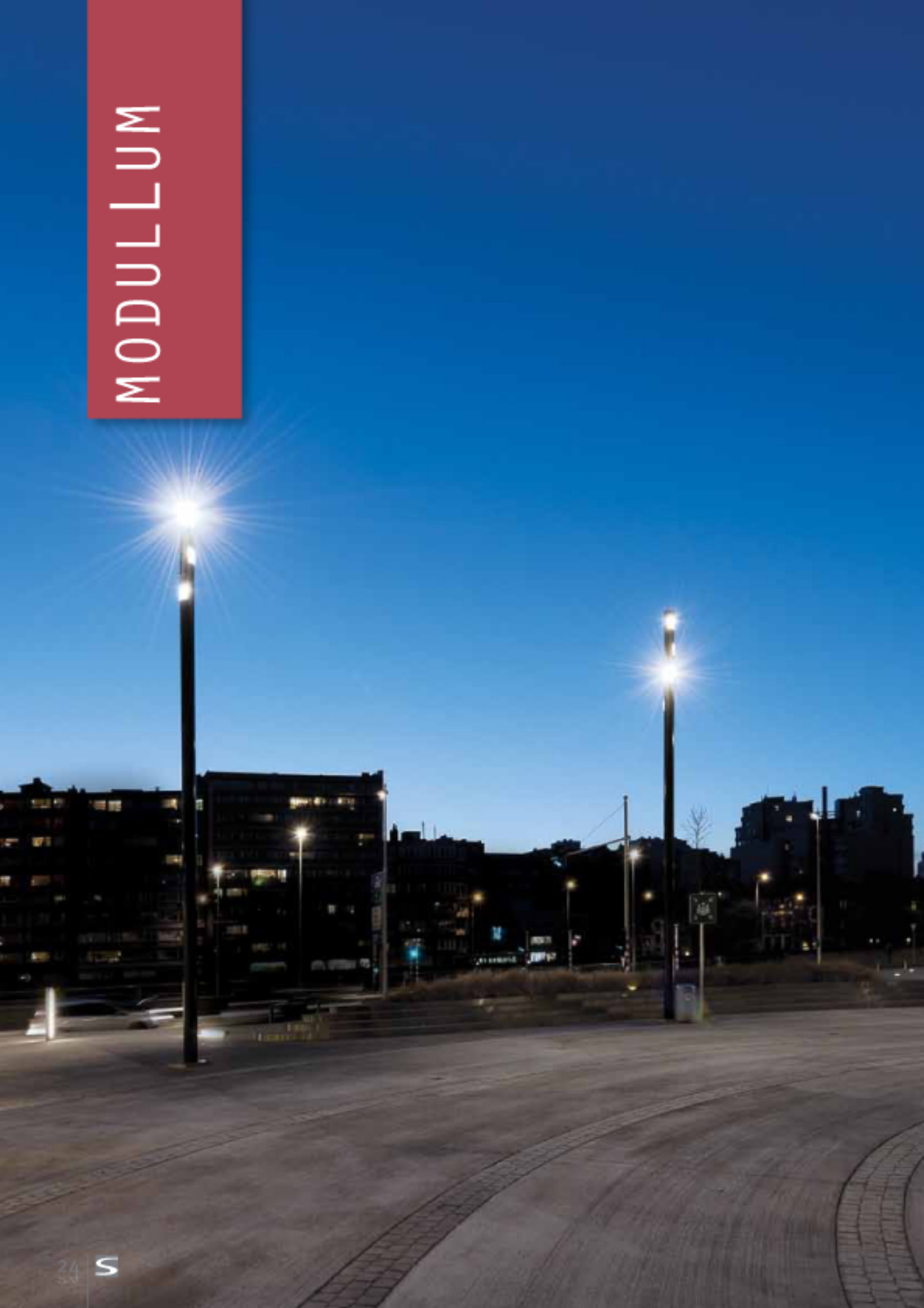
MAIN APPLICATIONS

RESIDENTIAL STREET

SQUARE

URBAN ROAD

MODULLUM



Design
Volker Von Kardorff

COMBINING ALL LIGHTING NEEDS AND MORE IN A SINGLE COLUMN

THE MODULLUM RANGE OFFERS A MULTIFUNCTIONAL LIGHTING SYSTEM FOR THE CREATIVITY OF ARCHITECTS AND CITY PLANNERS.

Reducing the quantity of poles and organising urban furniture in an optimal manner are key issues for preserving open spaces and making them as welcoming as possible.

The ModulLum column provides a comprehensive solution for a variety of applications throughout the city.

Thanks to multiple lighting configurations and additional features, it can potentially meet every need in the urban space. The versatility of the ModulLum, with its different modules as well as variable diameters and heights of up to 9.5 metres, guarantees a perfect match between the column and its architectural environment.

The ModulLum is available in four sizes and can be equipped with one to six modules which swivel around 360° so as to better fit the desired function: lighting roads and squares, illuminating facades, accentuating objects, signage, sound systems, video surveillance etc.

The ModulLum offers a broad palette of light sources (HID and LEDs) and distribution options for each of its configurations.

LED

owlet

CHARACTERISTICS

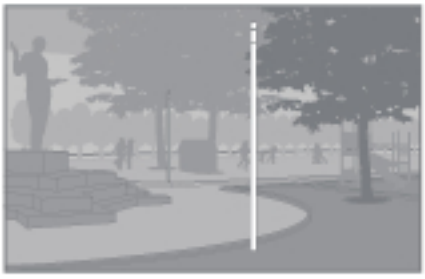
Lumen packages (nominal flux) (*)				
	Micro	Mini	Midi	Maxi
Accent lighting	520 to 1,950lm	520 to 1,950lm	1,580 to 4,900lm	1,580 to 4,900lm
Façade lighting	3,300lm	3,300lm	1,800 to 6,800lm	3,300 to 16,500lm
Ambiance lighting	1,040 to 3,300lm	1,560 to 3,300lm	2,080 to 6,600lm	3,300 to 6,600lm
Road and urban lighting	/	/	2,700 to 6,600lm	2,900 to 16,500lm

	Micro	Mini	Midi	Maxi
Colour temperature	Neutral or warm white			
Optical compartment tightness level	IP 65 (**)			
Impact resistance (glass)	IK 08 (***)			
Aerodynamic resistance of a module (CxS)	0.04m²	0.04m²	0.07m²	0.13m²
Nominal voltage	230V - 50 Hz			
Electrical class	I or II (**)			
Weight of a module (empty)	3kg	3kg	5kg	6.8kg
MATERIALS				
Column	Thermo-lacquered galvanised steel			
Module housing	Die-cast aluminium			
Module protector	Polycarbonate			
Base	Die-cast aluminium			
Colours	AKZO grey 900 sanded Other RAL or AKZO colours upon request			

(*) both HID and LED versions | (**) according to IEC - EN 60598 | (***) according to IEC - EN 62262

MAIN APPLICATIONS

RESIDENTIAL STREET



SQUARE

ACCENT LIGHTING

FAÇADE LIGHTING

»KEY ADVANTAGES

- Multiple configurations: 4 sizes with up to 6 modules per column
- Designed for multi-purpose lighting: from ambiance to architectural and street lighting
- Total versatility with 360° rotatable modules
- Adjustable on-site (spot module)
- Possibility to integrate beyond light features in a module
- Durable, recyclable and robust materials
- Easy installation and maintenance
- Designed to incorporate the Owlet range of control solutions

MORE THAN LIGHTING

The versatility of the ModulLum means it can satisfy virtually every need. It is much more than a luminaire. Starting from an empty module, it is possible to integrate all the features you need in a public space to create a comprehensive solution while making a place attractive both by day and by and night.

As a tool for enhancing public spaces and creating places where people enjoy spending time, the potential of the ModulLum is almost unlimited.

It is a truly modern system that cities and investors need to create places with real dynamics, stimulating economic activity and social interaction.

EMERGENCY LIGHTING

VIDEO SURVEILLANCE

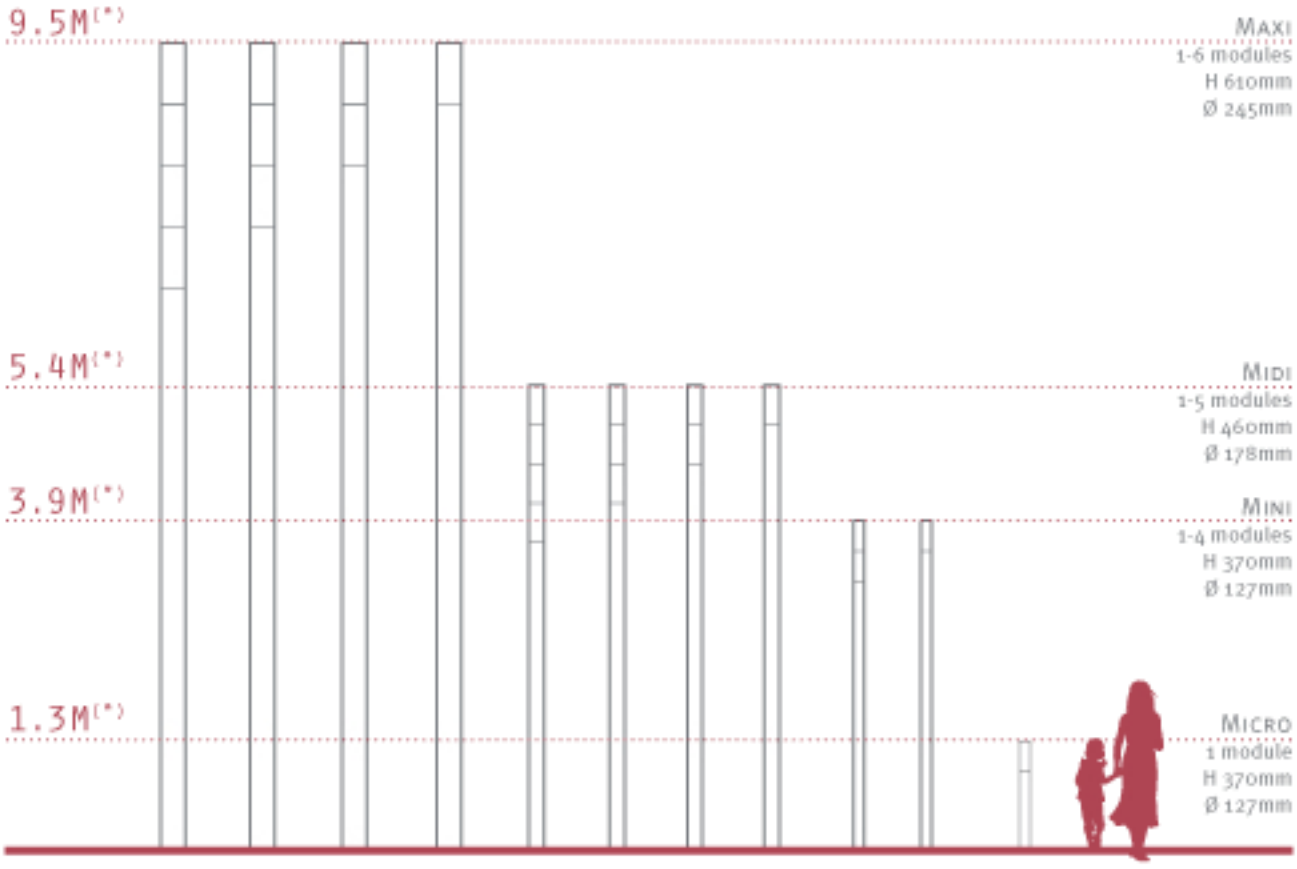
LOUDSPEAKER

WIRELESS INTERNET

ELECTRIC VEHICLE CHARGING STATION

The images are not contractual and do not represent items for sale. Please inquire for more information.

DIMENSIONS | MOUNTING



(*) Other sizes available on request

RIVARA

Design
Eclipz

DISTINCT DESIGN WITH LED TECHNOLOGY: THE IDEAL COMBINATION FOR LIGHTING VARIOUS URBAN LANDSCAPES

THE SIMPLE BUT VERY ELEGANT DESIGN OF THE RIVARA LUMINAIRE IS COMPLEMENTED BY SECOND GENERATION LENSOFLEX®2 PHOTOMETRIC ENGINES.

The flexibility of the LensoFlex®2 photometric engine provides multiple lighting distributions to adapt to the diverse needs of contemporary lighting. The amount of LEDs - 16 to 24 - can be adapted to meet the photometrical requirements of the area to be lit.
The Rivara was specifically designed to be a rectangular shaped luminaire with a single or double bracket. A wall bracket is also available to maintain aesthetic consistency in areas where poles cannot be installed.
This winning combination of performance, design and flexibility enables the Rivara to light streets, residential areas, pedestrian areas, bike paths and parks with a better quality of light, to generate energy savings and to reduce the ecological footprint with a perfect aesthetic integration into the environment.

CHARACTERISTICS

Installation height	4 to 6m
Lumen package range (nominal flux)	2,200 - 5,800lm
Colour temperature	Neutral or warm white
Optical compartment tightness level	IP 66 (*)
Control gear tightness level	IP 66 (*)
Impact resistance (glass)	IK 08 (**)
Aerodynamic resistance (CxS)	0.110m²
Nominal voltage	230V - 50Hz
Electrical class	II (*)
Weight (complete)	16.5kg
MATERIALS	
Body	Painted galvanised steel
Protector	Flat glass
Colour	RAL 7040 light grey Any other RAL or AKZO colour upon request

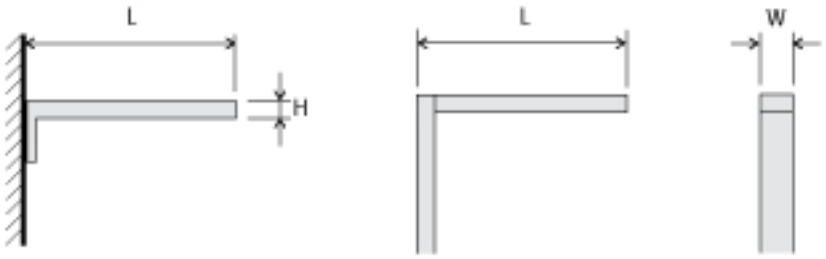
(*) according to IEC - EN 60598 | (**) according to IEC - EN 62262

»KEY ADVANTAGES

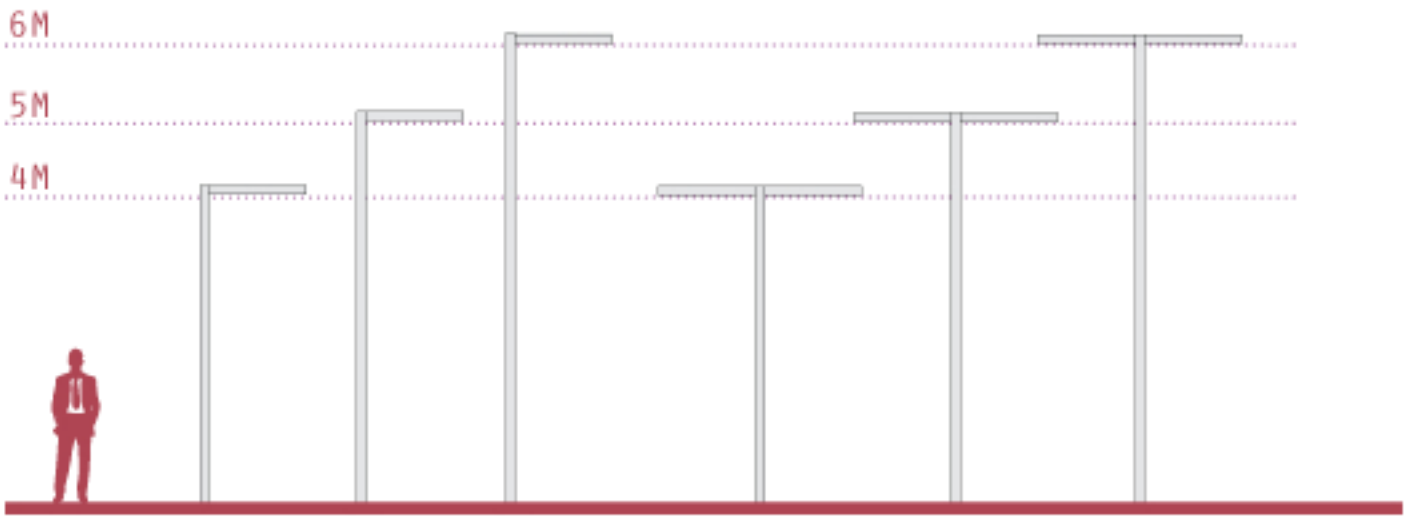
- Pure and simple design
- Low energy consumption
- LensoFlex®2 photometry for various applications
- Energy savings: up to 75% compared with traditional light sources
- ThermiX® to maintain performance over time
- FutureProof: LED engine can be replaced on-site
- High visual comfort
- Surge protection 10kV
- Designed to incorporate Owlet range of control solutions

DIMENSIONS

L	1200mm
H	100mm
W	180mm



RIVARA COLUMN



MAIN APPLICATIONS

NARROW ROAD

MAIN ROAD

RESIDENTIAL STREET

STYLAGE

Design
Michel Tortel

CONTEMPORARY STYLE FOR A PERFORMING LED LANTERN

WITH ITS TYPICAL 4-FACED DESIGN, THE STYLAGE LUMINAIRE BRINGS THE CLASSICAL STYLE LANTERNS INTO THE 21ST CENTURY.

Thanks to a modern twist on a classic design, the Stylage easily blends into both historical city centres as well as areas with a more contemporary architecture.

The Stylage is the ideal tool to create aesthetic consistency in cities composed of a mixture of heritage and modern architecture and who wish to highlight their historical patrimony while accentuating their commitment to the future.

Equipped with the performing LensoFlex®2 LED engine, the Stylage luminaire offers a high performance with energy savings that can exceed 75% compared to luminaires fitted with traditional light sources.

This efficiency lowers its payback time and contributes to a responsible use of natural resources.

CHARACTERISTICS

Installation height	3.5 to 5m
Lumen package range (nominal flux)	2,200 to 11,600lm
Colour temperature	Neutral or warm white
Optical compartment tightness level	IP 66 (*)
Control gear tightness level	IP 66 (*)
Impact resistance	IK 08 (**)
Aerodynamic resistance (CxS)	0.125m²
Nominal voltage	230V - 50Hz
Electrical class	I or II (*)
Weight (total)	7kg
MATERIALS	
Body	Aluminium
Flat protector	Glass
Large protector	Polycarbonate
Colour	AKZO grey 900 sanded Any other RAL or AKZO colour upon request

(*) according to IEC - EN 60598 | (**) according to IEC - EN 62262

»KEY ADVANTAGES

- Elegant and comfortable solution for creating ambiance
- Energy savings: up to 75 % compared with traditional light sources
- No light pollution: ULOR 0% in flat glass version
- Designed to incorporate Owlet range of control solutions
- Surge protection 10kV

MAIN APPLICATIONS

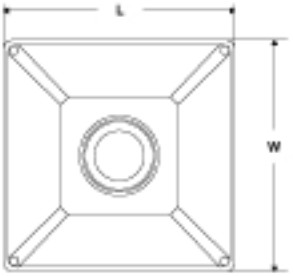
STREET

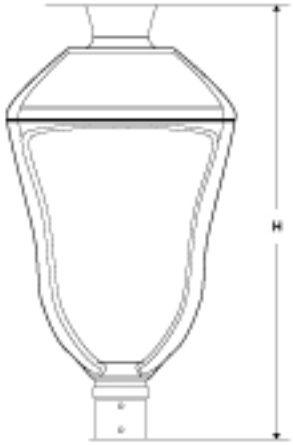
SQUARE

URBAN ROAD

DIMENSIONS

H	704mm
L	373mm
W	373mm

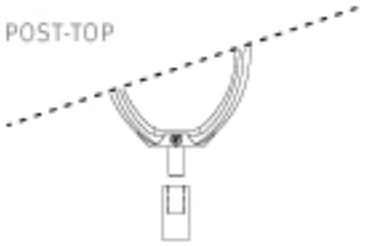




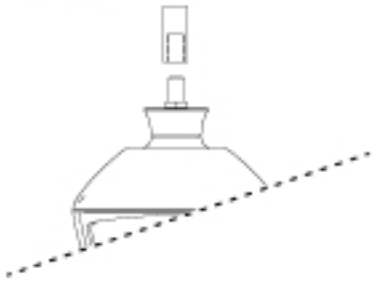
MOUNTING

The Stylage luminaire is available with post-top (60mm spigot or 3/4" gas) or a suspended mounting (3/4" gas).

POST-TOP

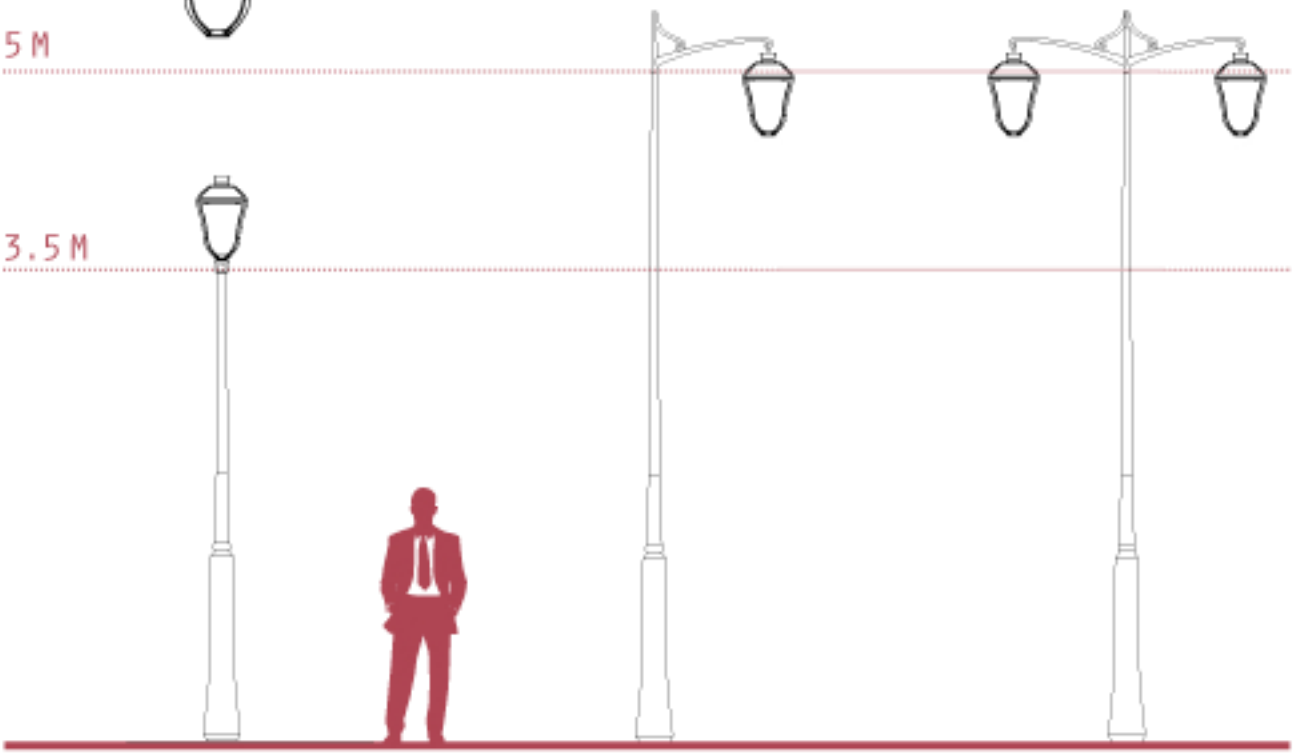


SUSPENDED

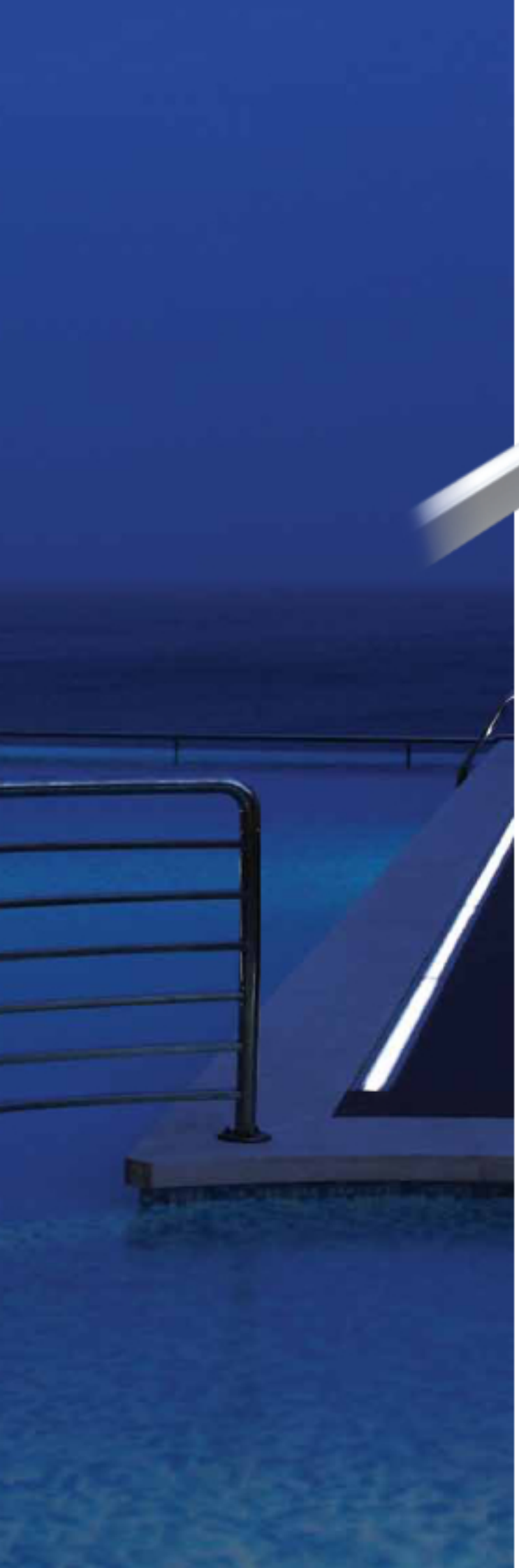


COLUMNS AND BRACKETS

WALL BRACKET




LIMARK



A VERSATILE AND MULTI-PURPOSE LED LINE

THE LIMARK IS A LINEAR FLOODLIGHT FITTED WITH LOW-POWER LEDS FOR MARKER OR ACCENT ILLUMINATION. THIS RANGE OF RECESSED FLOODLIGHTS WITH A HIGH TIGHTNESS LEVEL (IP 67) IS AVAILABLE IN 2 LENGTHS.

The Limark is particularly suited to ground-lighting public or private areas and to highlighting architectural details. When installed, the modules can form a continuous curtain of light.

The Limark floodlight is composed of a body in anodised aluminium and an optical unit with a protector in frosted polycarbonate. The optical unit is connected to the mounting profile by a click-system.

Thanks to the Limark's mechanical design, the IP 67 tightness level is maintained in the long term. Installation and maintenance operations are also very easy.

LED

CHARACTERISTICS

Tightness level	IP 67 (*)	
Impact resistance (polycarbonate)	IK 09 (**)	
Static load resistance	< 500kg	
Nominal voltage (external power supply)	24V DC	
Electrical class	III(*)	
Weight	Limark 1 0.6kg	Limark 2 1.2kg
MATERIALS		
Body	Anodised aluminium	
Optical unit	Frosted polycarbonate	
Colour	Aluminium	

(*) according to IEC - EN 60598 | (**) according to IEC - EN 62262

»KEY ADVANTAGES

- Continuous line of light
- Ultra-compact linear module for discreet integration into the environment
- High tightness level (IP 67)
- High-quality and resistant materials
- Easy installation
- Savings in energy and maintenance costs

LIGHT SOURCES

LOW-POWER LEDs		
Power/LED	0.07W	
Number of LEDs	Limark 1: 60	Limark 2: 120
Colour	White, Red, Green, Blue, Amber or Yellow	
Temperature of white LEDs	Cool 6,000K Neutral 4,100K Warm 3,050K	
Maintained nominal flux at @ tq 25 °C	60.000 hours - L70 (*)	
Typical luminous flux	Limark 1: 225lm	Limark 2: 450lm

(*) L70 means that after the number of hours indicated, the luminaire maintains 70% of its initial luminous flux. The flux is an indicative LED flux based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. Flux depends on the type of LED in use and is likely is to change in accordance with the continuous and rapid developments in LED technology. To follow the progress of the luminous efficiency of the LEDs used, please visit our website.

MAIN APPLICATIONS

TO CREATE SECURE ENVIRONMENTS

TO CREATE A DIFFUSE LIGHTING AMBIANCE

TO CREATE ACCENTS OF LIGHT

DIMENSIONS

	LIMARK 1	LIMARK 2
L	510mm	1010mm
H	50mm	50mm
W	30mm	30mm

INSTALLATION

These recessed floodlights can create a continuous or discontinuous line of light.
A maximum 8 modules of 1 metre each can be connected to each channel of a 150W power supply.

AMPERA

Design
Thomas Coulbeaut

LED SOLUTION FOR AN OPTIMISED RETURN ON INVESTMENT

DESIGNING THE MOST EFFICIENT AND COST-EFFECTIVE LED RANGE WAS THE DRIVING FORCE BEHIND THE DEVELOPMENT OF THE AMPERA FAMILY.

LED technology provides sustainable lighting solutions that can dramatically improve safety and well-being.

Nevertheless, a new lighting scheme requires a clear view on the total cost of ownership for the requested investment and the expected energy and maintenance savings.

The Ampera range sets a new benchmark in LED lighting with performing and flexible solutions that lead to the shortest payback time. With its long lifespan and limited maintenance requirements, the Ampera range enables you to maximise your return on investment.

Available in 3 sizes - with a lumen package scalable up to 31,100lm - and with numerous lighting distributions, the Ampera range can meet all your road and urban lighting needs.

This range is the perfect solution for replacing luminaires fitted with mercury vapour, high-pressure sodium, metal halide and other HID lamps. The Ampera Mini is a strategic alternative to fittings with 70W traditional light sources while the Ampera Midi and the Ampera Maxi provide significant energy savings for replacing luminaires with 150W and 250W lamps.

CHARACTERISTICS

Installation height	4 to 12m		
Lumen package range (nominal flux)	**Mini** 1,100 to 5,800lm	**Midi** 4,500 to 15,500lm	**Maxi** 11,400 to 31,100lm
Colour temperature	Cool, neutral or warm white		
Optical compartment tightness level	IP 66 (*)		
Control gear tightness level	IP 66 (*)		
Impact resistance (glass)	IK 09 (**)		
Nominal voltage	120 - 277V - 50 - 60Hz		
Electrical class	EU I or II (*)	US 1	
Materials			
Body	High-pressure die-cast aluminium		
Protector	Glass		
Colour	AKZO grey 900 sanded Any other RAL or AKZO colour upon request		

(*) according to IEC - EN 60598 – (**) according to IEC - EN 62262

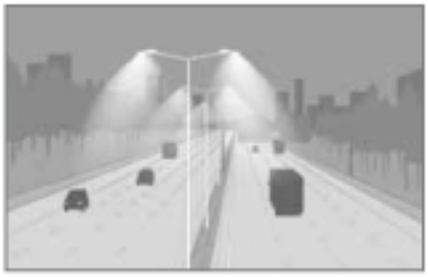
»KEY ADVANTAGES

- Cost-effective and efficient lighting solution for a fast return on investment
- 3 sizes for flexibility
- IP 66 tightness level
- ThermiX®: withstands high temperatures (Ta 50°C)
- Mounting with two separated parts for easy installation and set-up (inclination angle)
- FutureProof: easy replacement of the photometric engine and gear compartment
- Surge protection 10kV

MAIN APPLICATIONS

NARROW ROAD

RESIDENTIAL STREET



MOTORWAY

MEDIUM AREA

URBAN ROAD

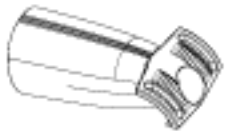
LARGE AREA

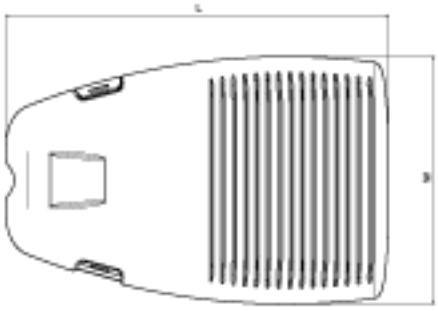
DIMENSIONS | MOUNTING

	Mini	Midi	Maxi
L	583mm	674mm	900mm
W	340mm	436mm	438mm
H	90mm	132mm	135mm

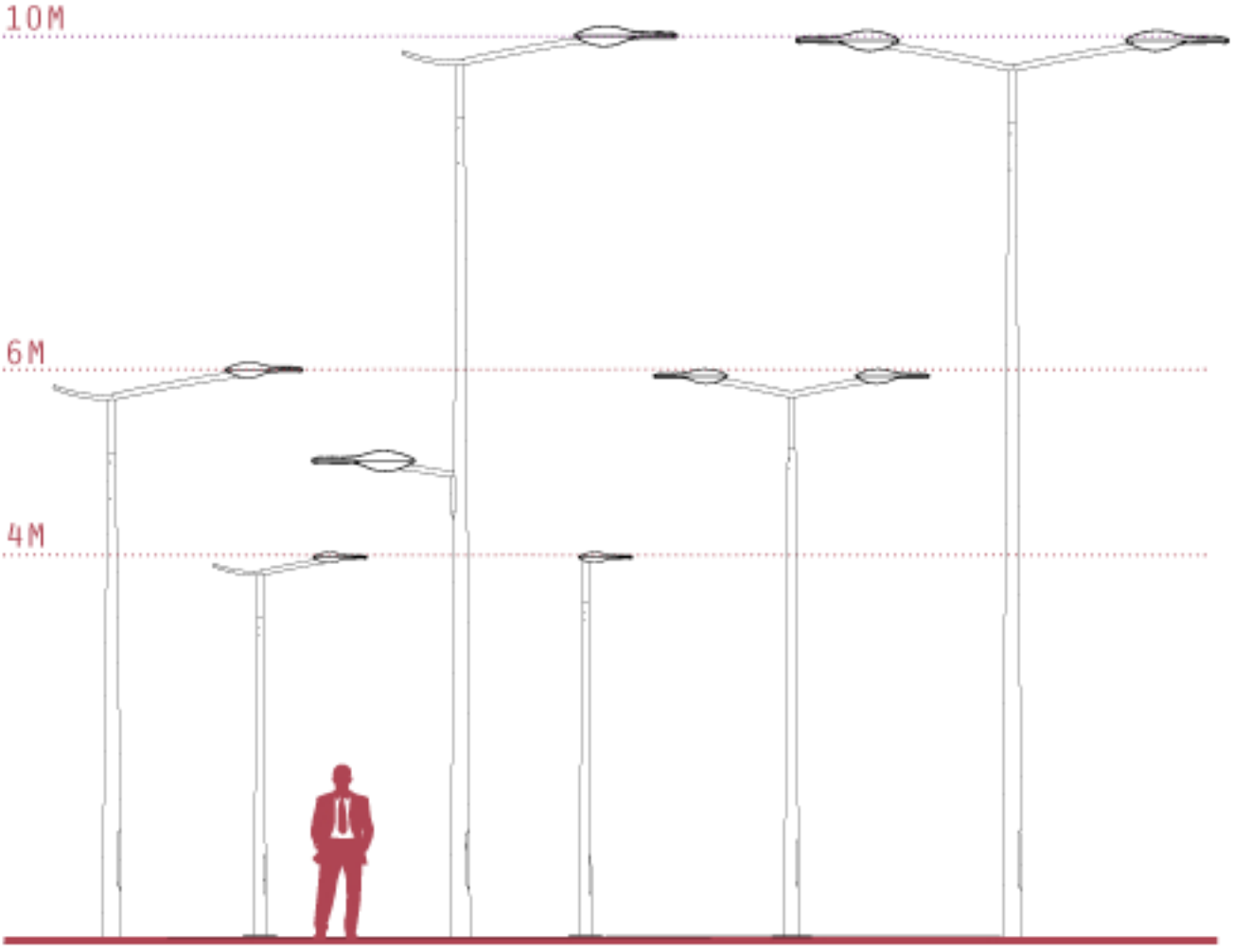
Universal mounting piece
(side-entry and post-top):

Ø 32mm with an adaptor
Ø 48mm
Ø 42 - 60mm
Ø 76mm





ANDO POLES AND BRACKETS



SAFETY

WELL-BEING

SUSTAINABILITY

SAVINGS

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