

Rivara



Designer : Eclipz

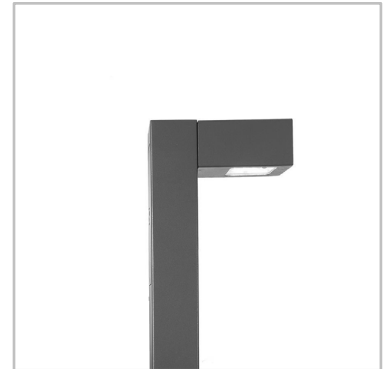


Refined design and LED technology: the ideal combination for lighting urban landscapes

With its simple but very elegant linear design, Rivara provides a complete range of luminaires to light diverse landscapes.

The Rivara luminaire is available 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 range to light streets, residential areas, parks, bicycle and pedestrian paths with a better quality of light. Furthermore, it generates energy savings and reduces the ecological footprint with a perfect aesthetic integration into the environment.



IP 66	IK 08	
	CE	



Concept

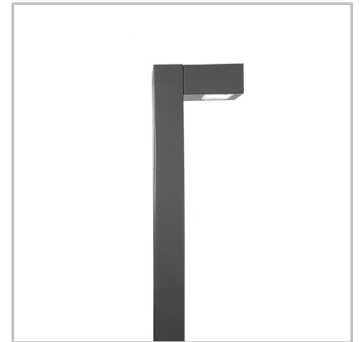
Made of painted galvanised steel, the body and the dedicated poles of the Rivara provide a strong mechanical design while offering elegant and contemporary linear shapes that blend into any urban environment.

The Rivara luminaire incorporates a glass protector and hosts the second generation LensoFlex®2 photometric engine to provide a wide range of light distributions suited to various typical urban applications such as squares, narrow streets, pedestrian areas and residential districts. The number of LEDs is adapted to meet the photometrical requirements of the specified application.

The photometric engine is IP 66 to prevent the LEDs and the respective lenses coming into contact with the external environment and to maintain performance over time.

The Rivara has been designed to offer multiple combinations with dedicated poles and single or double brackets. For narrow streets where poles cannot be installed, a wall bracket is proposed to offer a solution that ensures technical and aesthetic consistency.

The pure design of the Rivara is complemented by the significant advantages of LED technology: low power consumption, a perfect control of the light distribution, a long-lasting performance and a wide range of possibilities in terms of integrated intelligence.



The housing of Rivara is in painted galvanised steel



The photometric engine is IP 66 to maintain performance over time



The Rivara luminaires are equipped with LensoFlex®2 photometric engines



The optical unit can be replaced on-site to take advantage of any future technological developments

Types of application

- URBAN & RESIDENTIAL STREETS
- BRIDGES
- BIKE & PEDESTRIAN PATHS
- RAILWAY STATIONS & METROS
- CAR PARKS
- SQUARES & PEDESTRIAN AREAS

Key advantages

- Pure and simple design
- Elegant and comfortable solution for creating ambiance
- LensoFlex®2 photometric engine with photometry adapted to various applications
- FutureProof: easy replacement of photometric engine and power supply on-site
- Designed to incorporate Owlet range of control solutions: autonomous network and interoperable network
- Energy savings of up to 75% compared with traditional light sources
- ThermiX® for long lasting performance
- Surge protection 10kV



LensoFlex®2

LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light distribution.

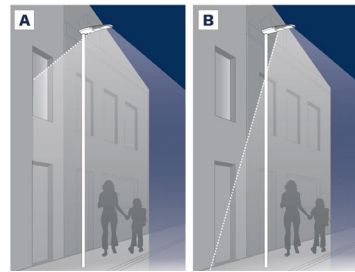
The proven LensoFlex®2 concept includes a glass protector to seal the LEDs and lenses into the luminaire body.



Back Light control

As an option, the LensoFlex®2 modules can be equipped with a Back Light control system.

This additional feature minimises light spill from the back of the luminaire to avoid intrusive light towards buildings.



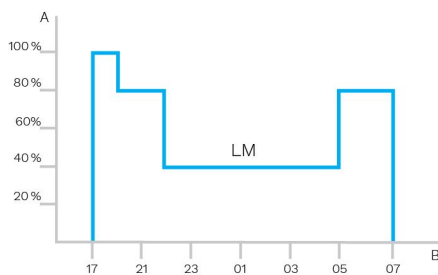
A. Without Back Light control | B. With Back Light control



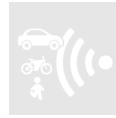
Custom dimming profile

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. Performance | B. Time



PIR sensor: motion detection

In places with little nocturnal activity, lighting can be dimmed to a minimum most of the time. By using passive infrared (PIR) sensors, the level of light can be raised as soon as a pedestrian or a slow vehicle is detected in the area.

Each luminaire level can be configured individually with several parameters such as minimum and maximum light output, delay period and ON/OFF duration time. PIR sensors can be used in an autonomous or interoperable network.



GENERAL INFORMATION

Recommended installation height	4m to 6m 13' to 20'
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
CE Mark	Yes
ENEC certified	Yes
ROHS compliant	Yes
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Galvanised steel
Optic	PMMA
Protector	Tempered glass
Housing finish	Polyester powder coating
Standard colour(s)	RAL 7040 window grey
Tightness level	IP 66
Impact resistance	IK 08

OPERATING CONDITIONS

Operating temperature range (Ta)	-20 °C up to +40 °C / -4 °F up to 104 °F
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· Depending on the luminaire configuration. For more details, please contact us.

ELECTRICAL INFORMATION

Electrical class	Class I EU, Class II EU
Nominal voltage	220-240V – 50-60Hz
Surge protection options (kV)	10
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-4-5
Control protocol(s)	1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Remote management
Associated control system(s)	Owlet Nightshift
Sensor	PIR (optional)

OPTICAL INFORMATION

LED colour temperature	3000K (Warm White 730) 4000K (Neutral White 740)
Colour rendering index (CRI)	>70 (Warm White 730) >70 (Neutral White 740)
Upward Light Output Ratio (ULOR)	0%

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90
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· Lifetime may be different according to the size/configurations. Please consult us.

DIMENSIONS AND MOUNTING

AxBxC (mm | inch)

RIVARA BOLLARD - 350x100x180 | 47.2x3.9x7.1

RIVARA - 1200x100x180 | 43.3x3.9x7.1

Weight (kg | lbs)

RIVARA BOLLARD - 23.5 | 51.7

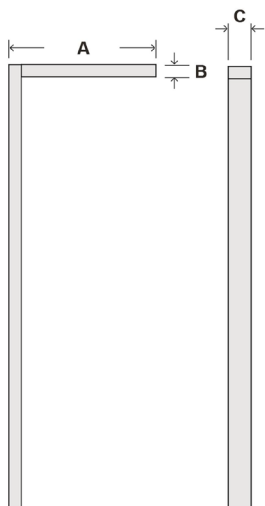
RIVARA - 16 | 35.2

Aerodynamic resistance (CxS)

RIVARA - 0.22

Mounting possibilities

On a dedicated range of poles/brackets





Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Neutral White 740		Power consumption (W)		Luminaire efficacy (lm/W)	
			Min	Max	Min	Max	Min	Max	Up to	Photometry
RIVARA BOLLARD	8	350	900	1000	900	1100	9.7	9.7	113	
	8	500	1200	1400	1300	1500	13.6	13.6	110	
	8	700	1600	1900	1700	2000	19.1	19.1	105	
	8	1000	2100	2400	2200	2500	27.7	27.7	90	
RIVARA	16	350	2100	2300	2200	2400	18.2	18.2	132	
	16	500	2800	3100	2900	3200	25.7	25.7	125	
	16	700	3600	4000	3800	4100	36.2	36.2	113	
	24	350	3200	3400	3300	3600	26.8	26.8	134	
	24	500	4300	4600	4400	4800	38.1	38.1	126	
	24	700	5500	6000	5700	6200	53.5	53.5	116	

Tolerance on LED flux is ± 7% and on total luminaire power ± 5%

