

Sera

Core & Via



KARIZMA luce



Sera Core

An architectural IP65 bollard family designed for pathways, parks, commercial landscapes and residential projects.

Available in three heights with 180° asymmetric or 360° radial light distribution.

The glare-controlled optics provide comfortable, uniform illumination with a lighting diameter of up to 10 metres and only a minimal dark zone beneath the luminaire.



High-power LED module

2700 K / 3000 K / 4000 K
Wide-beam lens system
360° radial or 180° light
distribution

Sensor

Radar and daylight sensor
(optional)

Housing finish

Black (other colours on request)
High-quality uniform powder coating
Marine-grade surface treatment
Corrosion-resistant die-cast aluminium (C5)
Optimised for reduced accumulation of dirt

**Anti-glare design**

Microstructured finish
for glare reduction
Upward light <3%

Control

On/off
DALI-2 dimming
Bluetooth control
(optional)

Ingress protection IP65

Dust-tight and water
jet-proof

Shaped head

Die-cast aluminium



Gasket



Optical system

Polycarbonate lens



Ribbed design



Optional sensor

Radar and daylight sensor



Expansion screw

Stainless steel M8 Ø12 x 60 mm



High-power LED module

Microstructured finish for glare reduction
Upward light <3%



Internal optical shield

For the 180° asymmetric version



Easy plug-in connector



Housing

Die-cast aluminium



Base

Die-cast aluminium



Technical specifications

Input power:	24 W (360°) / 12 W (180°)
Luminous flux:	1124 lm / 498 lm
Light distribution:	360° / 180°
CCT:	2700 K / 3000 K
CRI:	>80
SDCM:	<3
Protection:	IP65 / IK10 / C5
Temperature range:	-30° - +45°C
Input voltage:	AC 200 - 240V
Control:	On/off / DALI-2



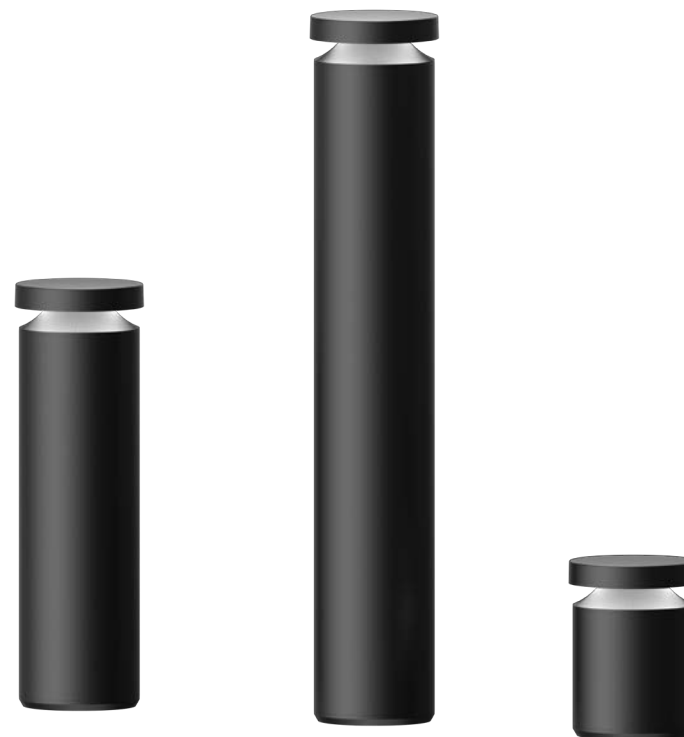
Luminaire height: 1000 mm (L)
600 mm (M)
250 mm (S)

Bollard diameter: Ø170 mm

Head diameter: Ø180 mm

Housing material: Extruded aluminium (6063)
Die-cast aluminium (ADC12)
Polycarbonate (PC)

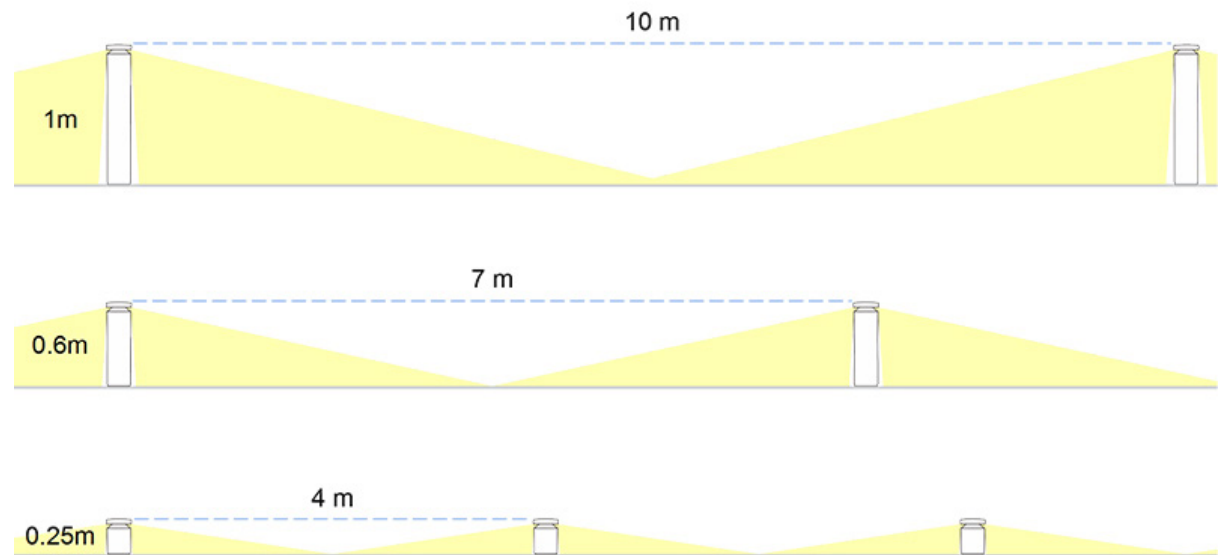
Housing colour: Black
(other colours on request)



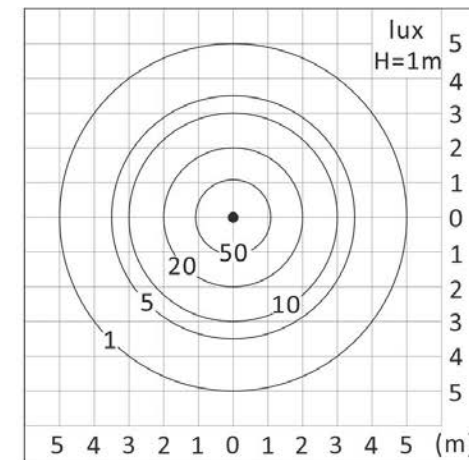
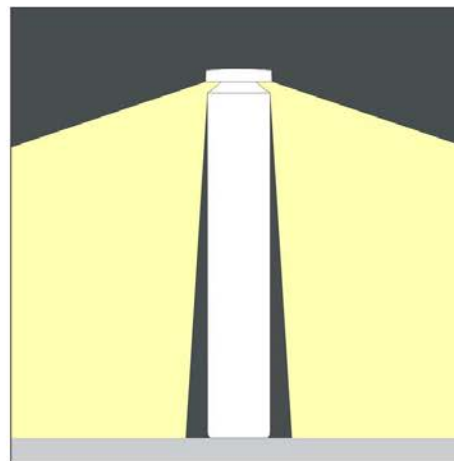
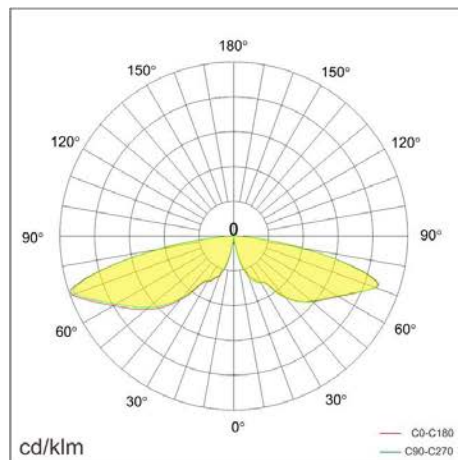
Light distribution

Recommended installation distances for each bollard height ensure uniform light distribution, visual comfort and efficient use of the optical system.

Sera Core L (h: 1000 mm): 10 m
Sera Core M (h: 600 mm): 7 m
Sera Core S (h: 250 mm): 4 m

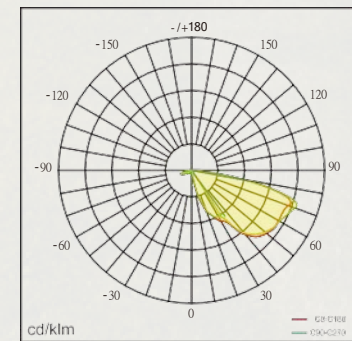
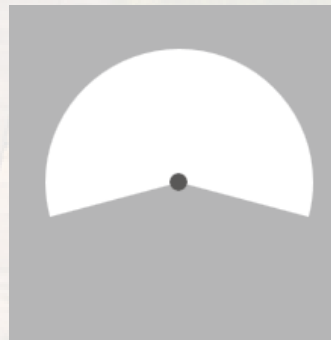
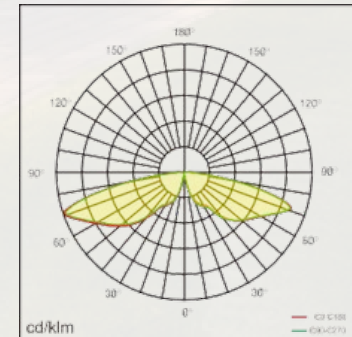
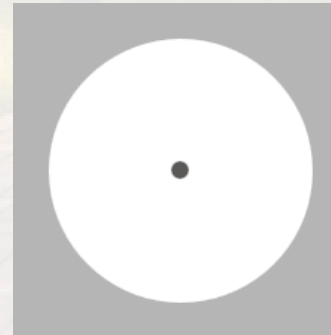


The specially developed optical system provides a wide and uniform light distribution around the bollard while maintaining a very small dark zone directly beneath the luminaire. This ensures comfortable pathway illumination with excellent visual continuity and minimal glare.



Optics

Sera is available with either 360° radial optics for open areas or 180° asymmetric optics for pathways and perimeter lighting.





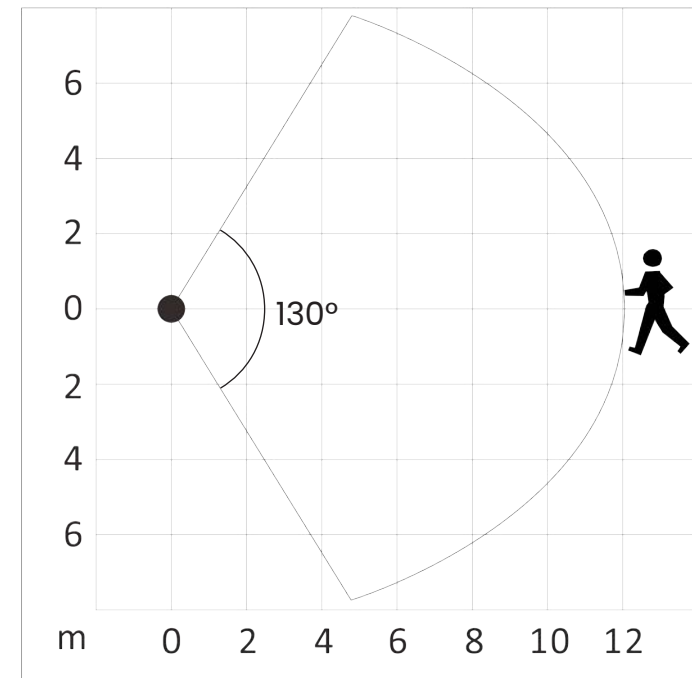
Upward light <3%

Carefully controlled optics minimise upward light, helping to reduce light pollution and preserve the night sky. More light is directed onto the ground where it is needed, improving efficiency and visual comfort.

Sensor & Accessories

Sera Core can be equipped with an optional radar and daylight sensor for automatic operation based on motion and ambient daylight.

With a detection range of up to 12 m and a 130° detection angle, it provides reliable coverage across a wide area.





3-pole IP68 connector
M682-B (3P) – 72 x 21 mm



5-pole IP68 connector
M684-B (5P) – 99 x 25 mm



Y IP68 connector
M685-Y – 140 x 72 mm



Anchor bolt kit
Ø225 x 154 mm



Ground support
Ø150 / Ø60 x 300 mm



Sera Via

Sera Via combines a timeless architectural design with advanced asymmetric optics for efficient pathway illumination.

Precisely controlled optics place light exactly where it is needed, providing wide, uniform illumination without upward light for excellent visual comfort and reduced light pollution.





Anti-glare design

Microstructured surface
finish for glare reduction
Upward light <0%

Wide-angle asymmetric optics

20° tilted light panel with
60° wide-angle asymmetric optic

Housing finish

Black (other colours on request)
Corrosion-resistant die-cast aluminium (C5)
Marine-grade surface treatment
High-quality uniform powder coating
Optimised surface for reduced accumulation
of dirt

Shaped head
Dark Sky design



Optical system
Polycarbonate lens



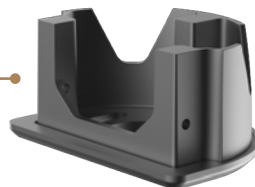
Gasket
For IP65 protection



Control
On/off
DALI-2 dimming



Base
Die-cast aluminium



High-power LED module
PCB with high power LED



Easy plug-in connector
For effortless installation



Technical specifications

Input power:	12W
Luminous flux:	1080 lm
Light distribution:	Asymmetric
CCT:	2700 K / 3000 K
CRI:	>80
SDCM:	<3
Protection:	IP65 / IK08 / C5
Operating temperature:	-30° - +45°C
Input voltage:	AC 200 - 240V
Control:	On/off / DALI-2



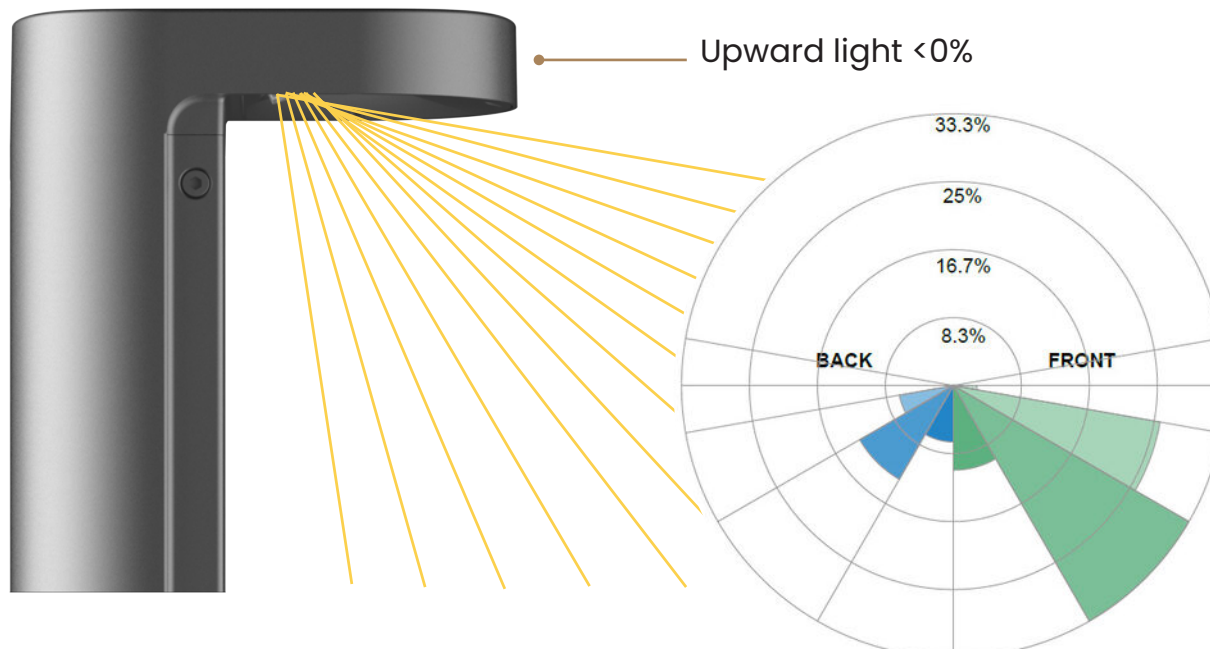
Luminaire height: 750 mm (M)
350 mm (S)
Bollard dimensions: 85 x 26 mm
Head dimensions: 135 x 85 x 26 mm
Housing material: Extruded aluminium (6063)
Die-cast aluminium (ADC12)
Polycarbonate (PC)
Housing colour: Black (other colours on request)



Light distribution

The BUG rating evaluates Backlight (B), Upward light (U) and Glare (G).

A rating of B0 U0 G1 confirms excellent optical control with no upward light, minimal backlight and very low glare, helping to reduce light pollution while improving visual comfort.



B0 – Minimal backlight

Low (0-30°)	6.9%
Medium (30-60°)	13.3%
High (60-80°)	6.7%
Very High	0.7%

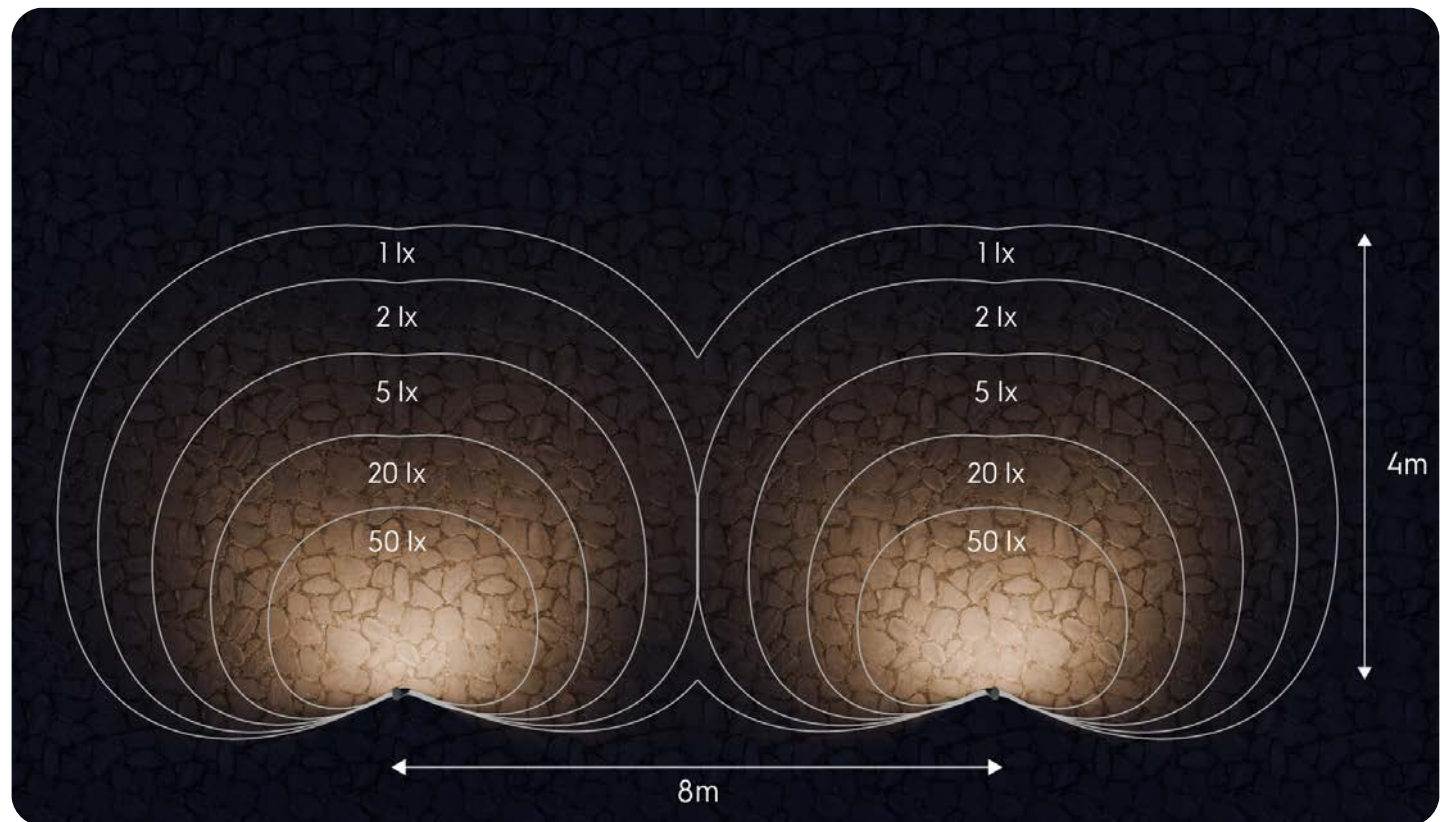
U0 – No upward light

Low (0-30°)	0%
Medium (30-60°)	0%

G1 – Very low glare

Low (0-30°)	10.4%
Medium (30-60°)	33.3%
High (60-80°)	25.7%
Very High	2.9%

A single 750 mm Sera Via bollard provides uniform illumination across an area of up to 8×4 m. It allows greater spacing between luminaires while maintaining excellent visual comfort.



Accessories



3-pole IP68 connector
M682-B (3P) – 72 x 21 mm



5-pole IP68 connector
M684-B (5P) – 99 x 25 mm



Y IP68 connector
M685-Y – 140 x 72 mm





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