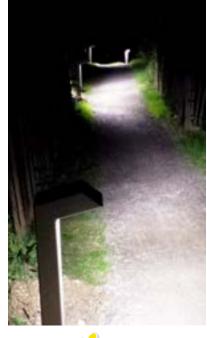
KASSIO

Bollard Range





The Kassi bollard suits urban and architectural projects like parks, squares and pathways. The asymmetrical profile give a new design and modern style to any project. Kassio is available in 3 heights and 1 or 2 fixtures.



SOURCE

KASSIO Bollard Range

Highlights



Technical characteristics

- Simple and resistant form
- Available in 3 sizes 35, 47 and 59 inches Custom heights available upon request.
- Sealed Head

Lighting performance

- One of the best LEDs on the market
- Efficient and soothing lighting, ideal to indicate pedestrian and cycling paths
- Asymmetric or circular lighting possibilities save to the LED system and lens modularity
- Very low light pollution: ULOR* 1.6%. *ULOR = Upward Light Output Ratio
- LED life cycle: up to 100 000 hours
- Maximum LED efficiency thanks to good thermal management
- Optional lighting management systems: automatic adjustment with up to 5 levels depending on the time of day, presence detection, constant flux, graduation via voltage variation, command 1-10V or DALI

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Installation & maintenance

- Easy installation.
- Access to the class II box (not include) from the access hatch on the rear of the bollard
- 3ft pre-wired up to the box

Appearance

- Ragni's conception and design
- Simple and versatile design, integrable in urban or landscaped areas
- Screen printed protection
- Available in two-colored version
- Creation of coordinated projects by associating with Kassio luminaire

Environmental and social responsibility

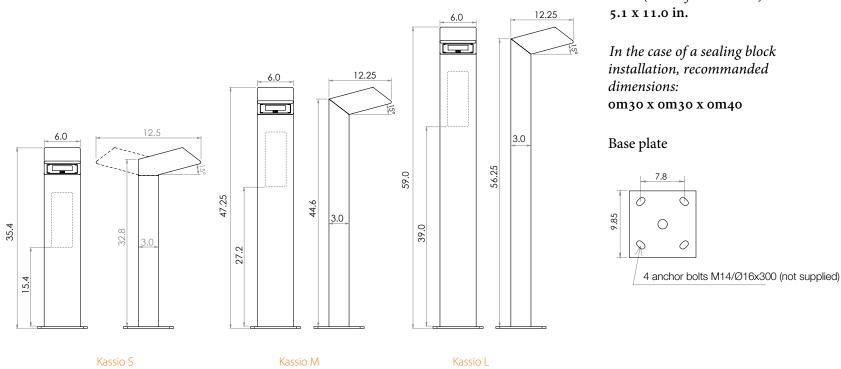
- No light directed towards the sky
- Eco-friendly conception
- Limits any nuisance for roadside properties and the environment.
- Low CO₂ emissions thanks to the choice of materials, the high-performance optical system and a reduced amount of packaging.
- Adapted to PRM (People of Reduce Mobility).



Technical Characteristics

Kassio 900	Kassio 1200	Kassio 1500			
35.5	47.25	59.0			
44	55	66			
	IP 66				
	IK 10				
Gavanized steel					
	Cast aluminum				
	ME RESIST				
	35.5	35.547.254455IP 66IK 10Gavanized steelCast aluminum			

Dimensions (in)



Door (back of the bollard):

In the case of a sealing block installation, recommanded om30 x om30 x om40



Technical Characteristics

Electrical Characteristics

- Power current up to 700mA
- Electrical class: I and II
- Incorporated driver.
- Optional surge protector or over/under voltage protection.
- Optional lighting management systems: automatic adjustment with up to 5 levels depending on the time of day, presence detection, constant flux, graduation via voltage variation, command 1-10V or DALI.

Voltage range (V)

Module 8 LED	
Module 16 LED	





Lighting Performance

LED module

We have selected our LEDs from the best on the market for their quality and efficiency.

- LED manufacturer: CREE
- Assigned LED's life cycle: 100 000 hours.
- Lumen maintenance, ex : L85 100 000 hrs @ 350mA, 85% of the luminous flow at 100 000 hrs @ 350mA.
- Color temperature: 3000K or 4000K
- (other color temperatures on request)
- CRI above 70

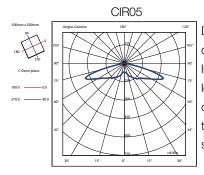


..... Circular distribution

Photometric distributions

Asymmetrical

Designed for intensive road lighting. The ASY08 lens is optimised to adapt to the typology of the area to be lit. It is ideal for pedestrian paths and cycle paths.



Designed for circular or rectangular ambient lighting. The CIR05 lens is optmised to offer broad distribution to cover maximum surface area.

Powers and luminous intensities

LUMINAIRE OUTPUT DATA (Tj @ 85°C)

3000 K		350 mA			500 mA			700 mA		
	Number of LED	P, (W)	Ф (lm)	(Im/W)	P,(W)	Ф (Im)	(Im/W)	P,(W)	Ф (Im)	(Im/W)
	8	10.5	1010	96	14.5	1440	99	20	1900	95
	16	19	2020	106	26.5	2885	109			

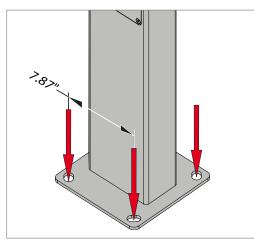
4000 K	4000 K 350 mA			500 mA			700 mA		
Number of LED	P, (W)	Ф (Im)	(Im/W)	P, (W)	Ф (Im)	(Im/W)	P, (W)	Ф (lm)	(Im/W)
8	10.5	1150	110	14.5	1560	108	20	2050	103
16	19	2300	121	26.5	3120	118			

P_t(W) = Total power consumption including driver consumption Nominal flux (Im) Luminous efficiency (Im/W)

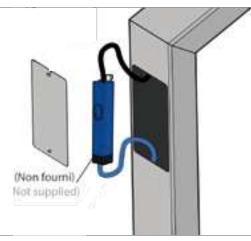


Installation & maintenance

Installation



Fastening: 4 embedding rods Ø16 / M14x300mm



Door opening via 2 screws BTR for electric housing access.

Luminaire maintenance



Glass cleaning.

Ordering Information

Fixture	Heads	# LED	Size	ССТ	Drive Current	Distribution	Line Voltage	Head Color	Pole Color
KAS									
	1F	8	S - (35.4″)	3 - (3000K)	35- (350 mA)	T1	1- (120-277V)	BLK - (Black)	BLK - (Black)
	2F	16	M - (47.2")	4 - (4000K)	50 - (500 mA)	T2	3- (347-480V)	BRZ - (Bronze)	BRZ - (Bronze)
			L - (59.1")		70 - (700 mA)	Т3		SLV - (Silver)	SLV - (Silver)
			C - (Custom)		Custom	T4		WHT - (White)	WHT - (White)
						T5		RAL #	RAL #



With its chisel tip, the design of the Kassio bollard is effective, clean and original. Both an element of street furniture and a lighting device, it will dress modern places as well as more classic or remote areas. With its 3 different heights and choice to paint it with one or two colors of your choice, it will fit any decor.

• Standard colors: White, Silver, Bronze and Black. All RAL colors available upon request.

