

# Citrine

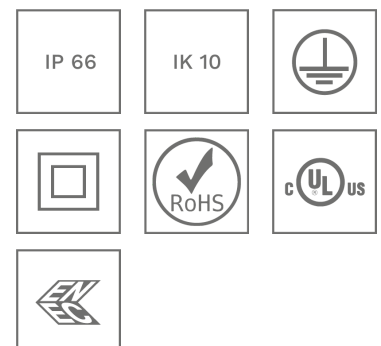


## Visual guidance and creation of a pleasant atmosphere

Citrine is designed to take up the challenge of providing an efficient visual guidance and creating a pleasant atmosphere.

This high-quality and cost-effective lighting solution is available in 3 sizes (Micro, Mini and Midi) and with 2 photometrical options; a symmetrical distribution and an asymmetrical distribution. Both can be fitted with a diffuse protector for maximised comfort or with a clear protector for high performance.

The photometry has been designed to maximise the spacing between the bollards and thus lower the investment.



BRIDGES



BIKE & PEDESTRIAN PATHS



CAR PARKS



SQUARES & PEDESTRIAN AREAS

## Concept

Composed of an aluminium body and a polycarbonate protector, Citrine offers a robust yet aesthetic solution for visual guidance and the creation of ambiance.

This bollard is available in 3 sizes (Micro, Mini and Midi) and with 2 photometrical options: a symmetrical distribution and an asymmetrical distribution. Both use indirect lighting with internal reflectors to provide the requested visual comfort for low-height applications.

The photometry has been designed to maximise the spacing between the bollards - up to 12m/39' for class P6 in full compliance with EN 13201 and CIE 115 recommendations - and thus lower the investment.

Citrine is available with a diffuse protector for maximised comfort or with a clear protector for high performance.

Citrine is ideally suited for ground mounting with bolts on a round plate. Citrine Micro can also be installed on a dedicated wall bracket. As an option, a bolt-cage for casting concrete and a bolt-on root for soft ground are also available.



Citrine is designed for ground mounting with bolts on a round plate



Citrine Micro can be mounted on a wall bracket

## Types of application

- BRIDGES
- BIKE & PEDESTRIAN PATHS
- CAR PARKS
- SQUARES & PEDESTRIAN AREAS

## Key advantages

- Compact and versatile
- Maximised savings in energy and maintenance costs
- Diffuse protector for visual comfort and ambiance/clear protector for pathway lighting
- ThermiX® and LEDSafe® for long lasting performance
- Wide range of operating temperatures from -20° up to 50°C
- Easy installation
- Surge protection 10kV (optional)



The drawer-type control gear plate is easy to access for maintenance



As an option, a protection grid or a 120° light shield can be added

**GENERAL INFORMATION**

Driver included	Yes
ENEC certified	Yes
ETL/UL certified	Yes
ROHS compliant	Yes
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

**HOUSING AND FINISH**

Housing	Aluminium
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 10

**OPERATING CONDITIONS**

Operating temperature range (Ta)	-20 °C up to +50 °C / -4 °F up to 122 °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	120-277V – 50-60Hz 220-240V – 50-60Hz
Surge protection options (kV)	4 10
Electromagnetic compatibility (EMC)	EN 55015 / EN 61547

**OPTICAL INFORMATION**

LED colour temperature	3000K (Warm White 830) 4000K (Neutral White 740)
Colour rendering index (CRI)	>80 (Warm White 830) >70 (Neutral White 740)

**LIFETIME OF THE LEDS @ TQ 25°C**

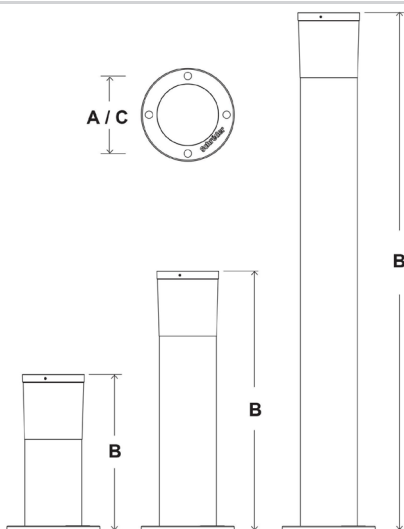
All configurations	50,000h - L70
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## DIMENSIONS AND MOUNTING

AxBxC (mm   inch)	CITRINE MICRO - 110x300x110   4.3x11.8x4.3 CITRINE MINI - 110x500x110   4.3x19.7x4.3 CITRINE MIDI - 110x1000x110   4.3x39.4x4.3
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Weight (kg   lbs)	CITRINE MICRO - 2   4.4 CITRINE MINI - 2.7   5.9 CITRINE MIDI - 4.3   9.5
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Mounting possibilities	On-ground mounting Casting into concrete Bolt-on root Wall-mounted
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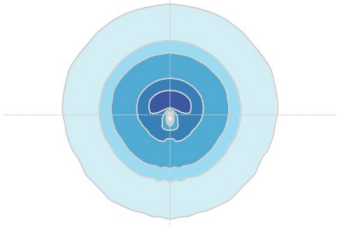
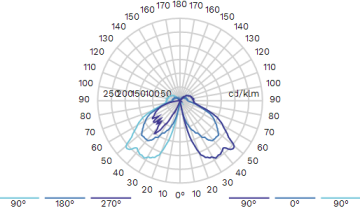




Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Neutral White 740		Power consumption (W)		Luminaire efficacy (lm/W)
			Min	Max	Min	Max	Min	Max	Up to
CITRINE MICRO	10	250	400	400	500	500	6	6	83
	20	250	600	800	800	1100	9	9	122
CITRINE MINI	10	250	400	400	500	500	6	6	83
	20	250	600	800	800	1100	9	9	122
CITRINE MIDI	10	250	400	400	500	500	6	6	83
	20	250	600	800	800	1100	9	9	122

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

2289 AS



2289 SY

