

ZOE - The Charm of Light

A lighting tool for Pathways and Squares

The ZOE bollard luminaire vividly connects paths and squares outdoor areas: Four light distributions and three construction sizes enable nuanced lighting designs with just a single luminaire range. Its innovative optical lens creates either light distribution aligned at 180° to one side for paths, or 360° light distribution for open areas. The ZOE lighting system is designed for uniform illumination in both of these applications. Luminaire spacing of up to 10m is achieved without compromises in terms of glare control.

The Optic design along with the Dark ring adopted prevents emission of light above the horizontal. Good visual comfort conditions for passers-by and vehicle drivers is ensured thanks to the optic system designing.



OPTICS

The ZOE collection of bollards keeps evolving in terms of technology and shape, as well, by keeping an elegant design to be integrated with the architecture. We developed a new innovative optic system able to guarantee super visual comfort, excellent horizontal effect with high interdistances and two lighting distributions

Invisible source

The optic is optimised to completely hide the light source from view.

Visual Comfort

Invisible source even in compromise situation such as sitting position.

Uniformity

Outstanding Uniform lighting on the ground

Horizontal Excellence

Illuminate the horizontal plane by eliminating the shadow at the base and perfectly patterning the light, from the points closest to and farthest from the pole uniformly.

FEATURES

- Dark-Sky technology, Invisible light source, Visual comfort
- Extremely wide light-distribution for less luminaire needed
- Easy & Quick installation and maintenance
- Premium ultra-weatherable Epoxy/Polyester dual powder coatings
- Optical part and Electrical part can be replaceable easily

PRODUCT DESCRIPTION

- LED outdoor lighting fixture, ground and floor installation, with 180° asymmetric and 360° symmetric optics.
- Product consists of the entire luminaire, but mounting parts and accessories should be ordered separately.
- LED modular are directly mounted to upper housing thermal pad for optimal thermal performance.
- Molded high grade water-tight silicone gaskets between the upper cover, optical lens, the cone, and the bollard, throughout insures the sealing and provides ingress protection.
- The optical assembly is installed on the lower bollard by means of a bayonet fitting and fixed with three sets of torx screws. Stable mechanical system prevents damage from installation generated vibration.
- The bollard is anchored to the ground by means of the fixing base made of die-cast aluminum alloy with low copper content, resistant to corrosion.
- The external Aluminum parts undergo a multi-step pre-treatment, it utilizes premium ultra-weatherable polyester powder coatings to withstand extended outdoor exposure, providing excellent resistance to corrosion, atmospheric agents and UV rays, degradation and abrasion. The good film appearance combined with excellent mechanical and exterior exposure qualities display greater than twice as much gloss retention.
- The luminaire is under protection of IP66 rating, maintaining strength and precision to sustain long term dayform appearance and service life, and IK10 rated enclosure protects electrical equipment against external mechanical impacts
- The bottom part of the optical compartment has a nickel-plated brass cable fixing connector rated IP66 and outgoing rubber cable
- Specially designed and manufactured exterior Polycarbonate Optical lens controls excellently the brightness, wide spread distribution and uniformity. It delivers visual-comfort elements and ensure glare-free illumination, providing a comfortable and safe atmosphere to your space. The optical lens is high degree UV resistant and fire rated, strong enough to withstand extended outdoor exposure for long time durability, as well as high impact resistance
- The electronic control gear offers regular ON/OFF, 0-10V Dimmable, Timer dimming, DALI -2.0 and D4i control for your application.
- Integral 6KV surge protection offered as standard, 10kV offered as customized to be ordered separately
- The electrical connection requires IP connectors to be ordered separately.
- All external screws used are in stainless steel.

CONSTRUCTIONS



1.Upper cover --- Corrosion-resistant casting aluminum, No-Rinse surface treatment; Dual powder coating finish Graphite grey RAL7024 color; Outstanding Integral heat sink as the thermal management system supporting Max 40watts power

2.Optical lens --- Made of Polycarbonate. Patented design Specially for wide spread illumination and Glare-control performance, as well high light efficiency. UV Stabilised, Vandal and Heat resistant robust, Fire resistant; Suitable for outdoor application with long durable life-time

3.Anti-glare cone --- Corrosion-resistant casting aluminum, No-Rinse surface treated; Dual powder coating finish Matt black color; Glare-free above the light aperture

4.LED module --- High-power LEDs: warm white 3000K, neutral white 4000K, or cool white 6000K

5.Surge protection device --- 10kA SPD, ordered separately

6.Control gear --- On/Off, 0-10V dimmable, DALI 2.0, DT8 Tunable white

7.Bollard --- Corrosion-resistant aluminum profile, No-Rinse surface treatment; Dual powder coating finishing Graphite grey RAL7024 color; Optimized surface for reduced accumulation of dirty.

8.Junction box --- IP66, ordered separately

9.Base plate --- For mounting on accessories; Mount accessories to be ordered separately

Technical Specifications

Standard RAL
Matt finish



8019 9005 7024 7016



2200-2700-3000-4000-5000-6000-6500K

ATTENTION

Mounting and Wiring accessories should be ordered separately.
For details please refer to installation book.

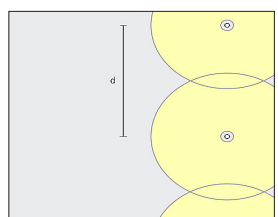
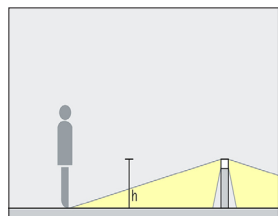
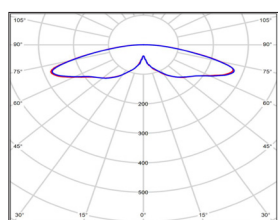
Model.: ZOE-BL36-H90-A36

Input voltage	100-277Vac 50/60Hz
Luminous flux	2885lm at 3000K CRI>80
System consumption	38 Watts
Luminaire efficacy	75.3 lm/w
Color deviation	<3 SDCM
Lumen maintenace	L80B10>100,000 hours
Dimming method	ON/OFF, Dimmable on request
Dimming range	N/A
Up-light	<1%
Operating temperature	-30 °C ~ 50 °C
Finish	RAL8019 Dark bronze Matt

Accessories (Ordered seperately)

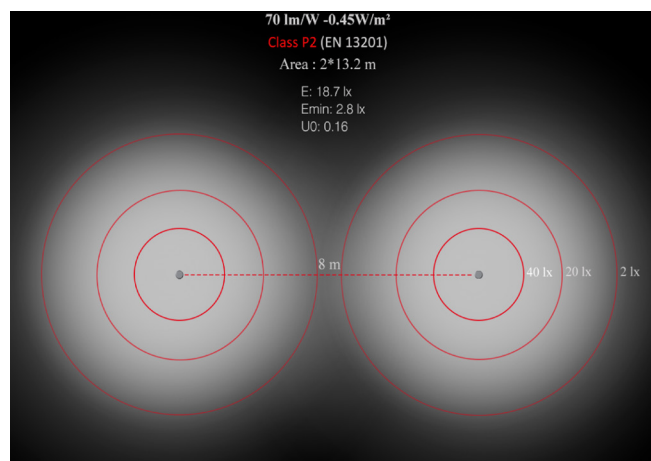
1. M10 x 100mm 304 stainless steel bolts 3pcs for each light
2. IP66 waterproof connector for power cable connection
3. IP66 junction box built-inside the fixture, wiring ready
4. Foundation (Concrete anchor)
5. Input power cable

Luminaire arrangement



The 360° Symmetric light emission of ZOE bollard luminaires lends itself to the uniform illumination of squares and open areas. The spacing(d) between two luminaires (h =900 mm) is Ideal at 8m, and might be up to 10m.

Arrangement: $d \leq 8m$



ZOE is dedicated to providing a comprehensive hardware platform of devices powered by Casambi's versatile application interface to deliver Bluetooth-driven wireless mesh control. This solution can deliver the full range of lighting control strategies as well as wireless OMX integration and dynamic RGBW, circadian and scene control.



Single CCT
Long Range Antenna
0-10V or DALI-2.0 optional

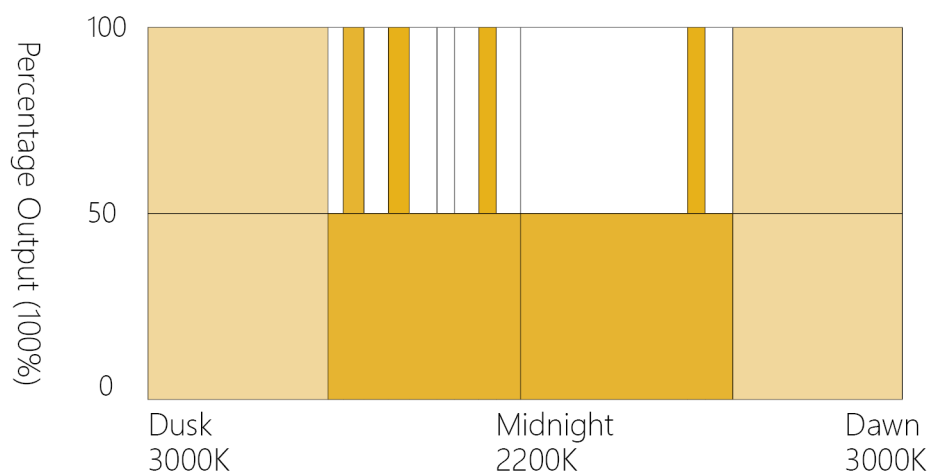


Single CCT
Standard Range with Photocell optional
0-10V or DALI-2.0 optional



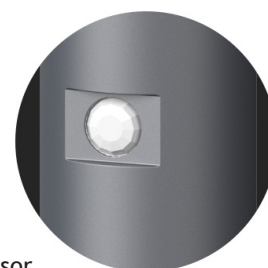
Single CCT
PIR Sensor with Photocell optional
0-10V or DALI-2.0 optional



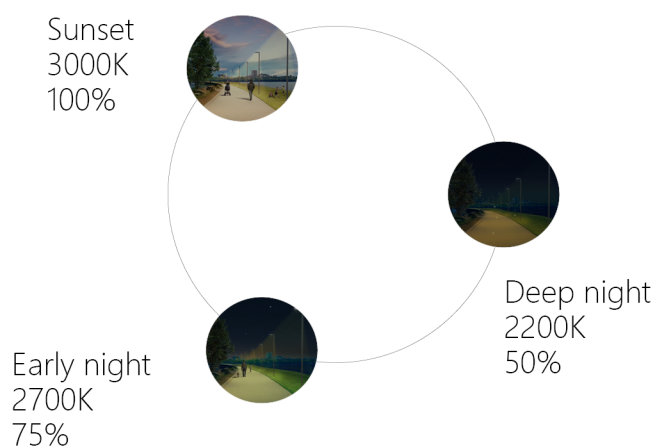


Dynamic lighting profile

Full intensity during peak hours with PIR activation during quieter periods. Ideal for areas with lower footfall, such as cycle and pedestrian paths or remote car parks.



Motion sensor



Pre-set lighting profile

Automatically adjusts colour temperature and intensity throughout the night. Ideal for areas with higher footfall, such as town centres and housing developments.



Photocell