



Bollard



Product information

Introducing Tungsram's latest decorative LED fixture, the Bollard, which is a great choice for the illumination of paths in parks and sidewalks in residential areas. This product increases sense of safety during walks outside in the night time. Its minimalist appearance is also a perfect fit in public scenery to make the area you live more aesthetic.

Application areas



Pedestrian street



Parks, gardens



Residential areas

Driver features

- Electronic, non-dimmable driver
- Power factor: 11W: >0,85; 23W: >0,95

Performance

- Rated luminous flux range: from 960 to 2100lm
- Rated luminaire efficacy: from 87 to 91lm/W
- Photometric code: 830/669, 840/669
- Rated median useful life and the associated rated LM factor: L80B50 > 50.000 hours
- Rated useful life and the associated rated LM factor: L80B10 > 40.000 hours
- Rated median useful life and the associated rated LM factor: L90B50 > 40.000 hours
- Rated useful life and the associated rated LM factor: L90B10 > 35.000 hours
- Rated abrupt failure value: 11W and 23W: <1,6% at 50.000 hours
- Lumen maintenance code: 9
- Rated ambient temperature (tq) related to performance for a luminaire: 25°C

Definitions and tolerances according to IEC62722-2-1:2014

Structures and materials

- Housing material: die-cast aluminium body
- Housing color: RAL9005
- Optical cover: polycarbonate clear diffuser

Installation and maintenance

Mounting options:

- Cement base / ground mounted
- Weight: 11W: 4,4kg; 23W: 4,6kg
- Storage temperature up to 60°C
- Operating temperature from -30°C to +40°C

Optics

Rated colour rendering index: >80
Rated correlated colour temperatures: 3000K, 4000K
ULOR: 0

Rated initial chromaticity co-ordinate values: 3000K, 4000K

- 3000K: CIE(x=0.44, y=0.403) 6SDCM
- 4000K: CIE(x= 0.38, y= 0.38) 6SDCM

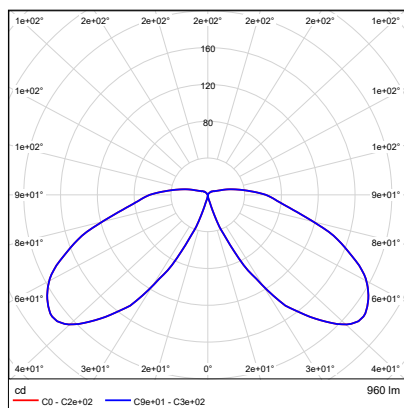
Electrical

Input voltage and frequency: 220-240V, 50-60Hz
IEC Safety Classification: Class I
Driver surge immunity: 4kV
Rated input power: 11W & 23W

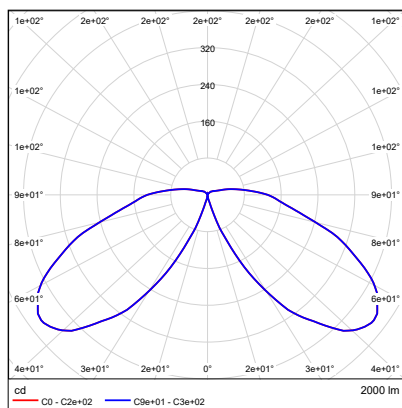
Standards and regulation

CE, Directive 2014/30/EU, 2014/35/EU, 2009/125/EC, EU 2019/2020, 2011/65/EC, EN 60598, EN 62471, EN 55015, EN 61000, EN 62493, EN 61547

Typical photometrical features



11W



23W

Dimensions (mm)



Specification summary

Product code	Product description	Wattage (W)	CRI	CCT (K)	Lumen (lm)	Efficacy (lm/W)	Power factor
93119734	TUNG Bollard G1 11W 830 S A1 ST 9005	11	>80	3000	960	87	>0.85
93119735	TUNG Bollard G1 11W 840 S A1 ST 9005	11	>80	4000	1000	91	>0.85
93119756	TUNG Bollard G1 23W 830 S A1 ST 9005	23	>80	3000	2000	87	>0.95
93119757	TUNG Bollard G1 23W 840 S A1 ST 9005	23	>80	4000	2100	91	>0.95