

Length **481 mm**

APPLICATION

Bergen is a modern LED luminaire designed for parks, squares, boulevards, embankments, pedestrian areas and residential streets. Its distinctive contemporary form contributes to the appearance of the urban environment during the day, while providing comfortable and functional illumination after dark. A wide selection of optics enables the light distribution to be adapted to different urban applications. Bergen can provide efficient illumination for pedestrian paths, recreation areas, local roads and public squares, directing the light where it is needed and reducing unnecessary spill light. The luminaire can also be configured for pedestrian crossings by selecting the appropriate optics. With a luminous flux of up to 6,300 lm, Bergen combines modern urban design with reliable lighting performance. High-quality PMMA optics, durable construction and a Philips Xitanium outdoor driver ensure stable operation and a long service life. Different colour temperatures are available to create the appropriate atmosphere for parks, residential districts and contemporary public spaces

10200 lm SYSTEM FLUX	80 W INPUT POWER	128 lm/W EFFICACY	4000 K CCT	≥70 CRI	IP66 INGRESS	IK09 IMPACT	100 000 h L90B10
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ELECTRICAL PARAMETERS

Nominal supply voltage	230 (220–240) V AC	Supply voltage range	198–264 V AC
Type of supply current	AC	Supply frequency	50 / 60 Hz
Rated input power	80W	Power factor (PF)	0.98
Driver efficiency at nominal load	92%	Total harmonic distortion (THDi)	6.50%
Protection class (electric shock)	I	Surge protection (CM / DM)	6/10 kV
Inrush current / time	45A/270µs	Driver type	Philips Xitanium
Number of luminaires on MCB 16A type B	<10		

PHOTOMETRIC PARAMETERS

Luminous flux — system	10200lm	Luminous flux — LED module	12000lm
Luminous efficacy — system	128lm/W	Correlated colour temperature (CCT)	4000 K
Colour rendering index Ra (CRI)	≥70	Init. CRI tolerance	±3
Light distribution type	Asymmetric	Luminaire beam spread	Wide beam
Optic type	Asymmetrical street	Light output ratio (LOR)	0.85
Photobiological safety class	RG1	Flicker — Output PstLM / SVM	≤ 0.6 / ≤ 0.4
Colour consistency (SDCM)	< 3 MacAdam steps	Upward light output ratio (ULOR)	0
Luminous flux tolerance	±5 %		

CONSTRUCTION & MATERIALS

Light source type	LED	Light source replaceable	yes
Cap / base type	Integrated	Housing material	Aluminium alloy
Housing coating	Powder coating	Optic material	PMMA
Optical cover material	Tempered flat glass	Housing colour (RAL)	DARK GREY RAL 7015
Mounting type	Post-top	Cutout size	N/A
Overall dimensions (H × W × L)	481x469mm	Weight (net)	13kg
Windage projection area (side / below)	0.025sq.m/0,18sq.m	Number of gear units	1 pcs

PROTECTION & ENVIRONMENT

IP rating — enclosure	IP66	Impact resistance class IK	IK09
Operating temperature range	-40...+35 °C	Storage temperature range	-40...+65 °C
Glow-wire test	650 °C / 5 s	Relative humidity (max)	N/A

CONTROL & DIMMING

Dimmable	Yes	Control protocol / interface	DALI
Auto-dimming (chronoSTEP)	Yes, 5 step	Built-in motion / presence sensor	On request
Built-in daylight sensor	On request	LED lumen maintenance compensation (CLO)	Available, On request

RELIABILITY & LIFETIME

Constant Light Output (CLO)	Available, On request	Light source lifetime	100000@L90 B10h
Lumen maintenance @ 50 000 h	L95B5	Lumen maintenance @ 100 000 h	L90 B10
Control gear failure rate @ 50 000 h	5 %	Control gear failure rate @ 100 000 h	10%
Maximum case temperature Tc	75°C		

CERTIFICATIONS

Warranty period	5 years	CE marking	CE marked
ENEC mark	No	ENEC+ mark	No
UKCA marking	UKCA marked	D4i certified (DALI)	No
EU RoHS compliant	Yes		

STANDARDS & SUSTAINABILITY

Applicable standard	EN-IEC 62722-2-2	ETIM Class	Not determined
Recyclable content ratio	Not determined	Non-virgin material ratio	Not determined
Sustainability rating	Not determined	EAN / UPC	Not determined
Application areas	Parks, squares, boulevards, embankments, pedestrian areas and residential streets		

Environmental data. Embedded carbon, recyclable content and sustainability ratings are provided per article where determined.

Documents. Photometric files (IES / LDT) and installation instructions are available at takton.ee.