DPS455 · URBAN LIGHTING

DPS455 10200LM 80W I 740 WSD IC0

Asymmetric · 4000 K · IP66 · IK09 · DARK GREY RAL 7015



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

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	**No**	Control protocol / interface	**On/off**
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	**EC000062**
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.