BGP307 LED45-4S/740 II DM11 CLO-DDF2 D18

910925865238

ClearWay gen2, Road & street light, 27 W, 3828 lm, 4000 K, CRI70, Programmable (via DALI or NFC) stand-alone dimming, Distribution medium 11, Safety class II, IP66

Road & street light, Aluminum die cast, Gray, Universal for diameter 48 to 60 mm adjustable, Power supply unit with DynaDimmer, Constant light output and DynaDimmer fixed presets version 2, 3828 lm, 27 W, 142 lm/W, 4000 K, (0.38, 0.38) SDCM <5, CRI70, Distribution medium 11, IP66 | Dust penetration-protected, jet-proof, IK09 | 10 J, Safety class II, Surge protection level until 6 kV differential mode and 8 kV common mode, Push-in connector 5-pole

General Information

Lamp family code	LED45 [LED Module 4500 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
Light source engine type	LED
Service tag	Yes
Lighting Technology	LED
Value ladder	Performance
Warranty period	5 years

Light Technical

Upward light output ratio	0
Luminous Flux	3,828 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	142 lm/W
Color rendering index (CRI)	70
Light source color	740 neutral white
Optic type	-
Luminaire light beam spread	160° - 42° x 54°
Optic type outdoor	Distribution medium 11
Effective projected area	0.1151 m²

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	27 W
Average CLO power consumption	27.5 W
End CLO power consumption	27.5 W
Inrush current	43 A
Inrush time	0.26 ms
Power Consumption	27 W
Power Factor (Fraction)	0.95
Connection	Push-in connector 5-pole
Cable	-
Number of products on MCB of 16 A type B	10
Protection class IEC	Safety class II
Surge Protection (Common/ Differential)	Surge protection level until 6 kV differential mode and 8 kV common mode

Controls and Dimming

Dimmable	Yes
Driver/power unit/ transformer	Power supply unit with DynaDimmer
Control interface	Programmable (via DALI or NFC) stand-alone dimming
Constant light output	Yes
DALI Standard	DALI-2™
Maximum dim level	0% (digital)
Embedded control	Constant light output and DynaDimmer fixed presets version 2

Mechanical and Housing

Housing Material	Aluminum die cast
Reflector material	-
Optic material	Polymethyl methacrylate
Optical cover material	Tempered glass
Fixation material	Aluminum
Housing Color	Gray
Mounting device	Universal for diameter 48 to 60 mm adjustable
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	482 mm
Overall width	330 mm
Overall height	93 mm
Dimensions (Height x Width x Depth)	93 x 330 x 482 mm
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK09 [10 J]
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Optical cover type	Flat glass
Net Weight (Piece)	5.750 kg

Approval and Application

Flammability mark	-
CE mark	Yes
ENEC mark	ENEC mark
Photobiological risk	Photobiological risk group 1 @ 200mm to EN62471
Photobiological risk specification	3.1 m
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
Remarks	*-Per Lighting Europe guidance paper “Evaluating performance of LED based luminaires - January 2018”: statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.
Ambient temperature range	-40 to +50 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.38, 0.38) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤5

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L100
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L100

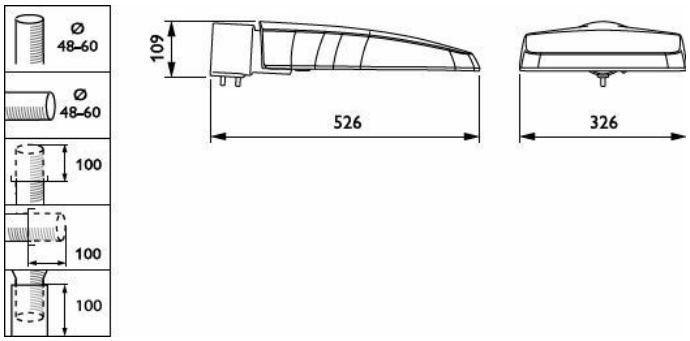
Sustainability Data

Sustainability rating	Signify Circle
Repair class	Repair Class B, the driver and light source of this luminaire can be replaced by a service technician. Parts and documentation are available for an extended period of time.
Embedded carbon (A1-A3)	102 kg CO_2e
Product non-virgin material ratio	5.83 %
Recyclable content ratio of the finished product	50.9 %
GWP total B6 (kg CO2eq) Declared Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO2eq / kwh)
GWP total B6 (kg CO2eq) Functional Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * 1000 (lm) /lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO2 eq / kwh)
Non-virgin material ratio of the packaging	Cardboard > 80% recycled
Packaging Recyclable content ratio	Cardboard recycling rate > 80%
Packaging Material	Cardboard

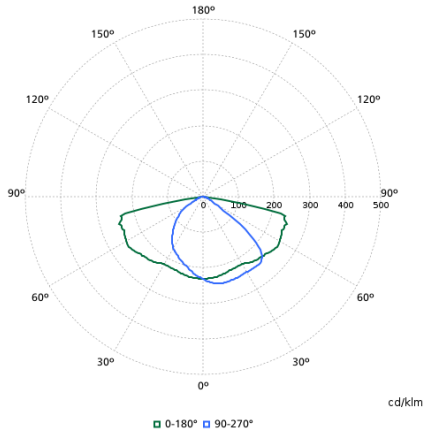
Product Data

Order product name	BGP307 LED45-4S/740 II DM11 CLO-DDF2 D18
Full product name	BGP307 LED45-4S/740 II DM11 CLO-DDF2 D18
Full product code	871869699716100
Order code	910925865238
Material Nr. (12NC)	910925865238
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696997161
Numerator - Packs per outer box	1
EAN/UPC - Case	8718696997161
Product family code	BGP307 [CLEARWAY GEN2]

Dimensional drawing



Polar normal diagrams



Related Documents

Documents and certificates	Document Name	Download
Tender text	Tender_Text_910925865238_en_EG.txt	Download
Installation Instructions	MOUNTING-INSTRUCTION-CLEARWAY-GEN2-SIGNIFY.pdf	Download

Photometry and lighting design	Document Name	Download
LDT File	LDT File - BGP307I - 910925865238.ldt	Download
ROLF File	ROLF File - BGP307I - 910925865238.rolfz	Download
ULD File	ULD File - BGP307I - 910925865238.uld	Download

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