PHILIPS

Lighting



ClearWay gen2

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

ClearWay gen2, LED Module 4500 lm, 740 neutral white, Safety class II, Distribution medium 11, Universal for diameter 48 to 60 mm adjustable

ClearWay Gen2 enables you to enjoy the benefits of LED technology for urban lighting right from the start. This new second generation of the luminaire builds on the strengths of its predecessor and is designed to further minimize your Total Cost of Ownership. ClearWay Gen2 significantly improves the most important aspects of the street lighting experience compared to conventional urban lighting. Ideal for new streets and for renovating existing installations, this affordable range of urban ClearWay lighting solutions combines clean design, high-quality light with significant energy and maintenance savings. In short, ClearWay Gen2 means good quality light with all the added benefits of LED - energy savings and long lifetime. Offering more benefits, yet packaged in a thinner and lighter design, which makes it easier to install.

Product data

General Information	
Lamp family code	LED45 [LED Module 4500 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
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. * At extreme ambient temperatures the luminaire might automatically dim down to protect components
Light source engine type	LED
Product family code	BGP307 [ClearWay gen2]
Lighting Technology	LED
Value ladder	Performance
CE mark	Yes
Warranty period	5 years
Flammability mark	-

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ENEC mark	ENEC mark
EU RoHS compliant	No

Light Technical

Upward light output ratio	0
Luminous Flux	3,828 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
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	-
Optical cover type	Flat glass
Luminaire light beam spread	160° - 42° x 54°
Optic type outdoor	Distribution medium 11

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

Temperature

Ambient temperature range	-40 to +50 °C

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DynaDimmer
Control interface	-
Constant light output	Yes

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
Effective projected area	0.1151 m²
Dimensions (Height x Width x Depth)	93 x 330 x 482 mm

Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK09 [10 J]
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
Sustainability rating	Lighting for circularity
Protection class IEC	Safety class II
Photobiological risk	Photobiological risk group 1 @ 200mm to EN62471
Photobiological risk specification	3.1 m

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

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 at median useful life* 100000 h	L100

Application Conditions

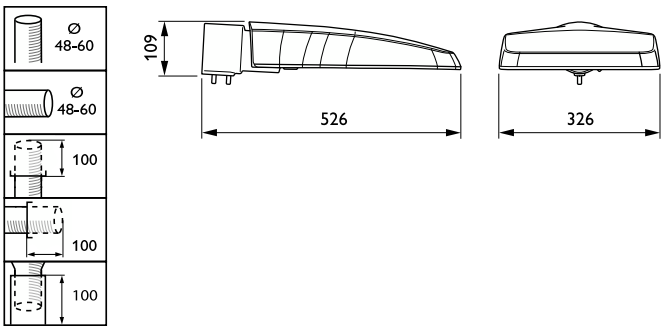
Performance ambient temperature Tq	25 °C
Maximum dim level	0% (digital)

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

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Dimensional drawing



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