BGP307 LED109-4S/740 I DM50 48/60S

910925864593

ClearWay gen2, Road & street light, 65 W, 9460 lm, 4000 K, CRI70, Distribution medium 50, Safety class I, IP66

Road & street light, Aluminum die cast, Gray, Universal for diameter 48 to 60 mm adjustable, Power supply unit (On/Off), 9460 lm, 65 W, 146 lm/W, 4000 K, (0.38, 0.38) SDCM <5, CRI70, Distribution medium 50, IP66 | Dust penetration-protected, jet-proof, IK09 | 10 J, Safety class I, Surge protection level until 6 kV differential mode and 8 kV common mode, Push-in connector 5-pole

General Information

Lamp family code	LED109 [LED module 10900 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	9,460 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	146 lm/W
Color rendering index (CRI)	70
Light source color	740 neutral white
Luminaire light beam spread	154° - 31° x 54°
Optic type outdoor	Distribution medium 50
Effective projected area	0.1151 m²

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	47 A
Inrush time	0.25 ms
Power Consumption	65 W
Power Factor (Fraction)	0.99
Connection	Push-in connector 5-pole
Cable	-
Number of products on MCB of 16 A type B	10
Protection class IEC	Safety class I
Surge Protection (Common/ Differential)	Surge protection level until 6 kV differential mode and 8 kV common mode

Controls and Dimming

Dimmable	No
Driver/power unit/ transformer	Power supply unit (On/Off)
Control interface	-
Constant light output	No
Maximum dim level	Not applicable

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)	5.890 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)

Driver failure rate at 5000 h	0.5 %
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	L98
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L96

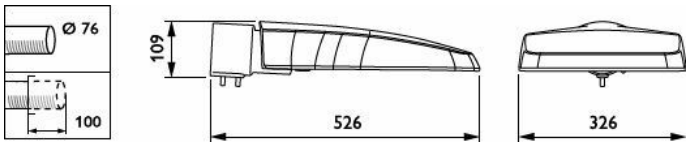
Sustainability Data

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

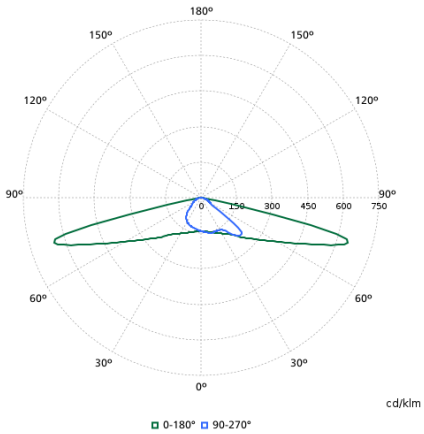
Product Data

Order product name	BGP307 LED109-4S/740 I DM50 48/60S
Full product name	BGP307 LED109-4S/740 I DM50 48/60S
Full product code	871869698805300
Order code	98805300
Material Nr. (12NC)	910925864593
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696988053
Numerator - Packs per outer box	1
EAN/UPC - Case	8718696988053
Product family code	BGP307 [CLEARWAY GEN2]

Dimensional drawing



Polar normal diagrams



Related Documents

Documents and certificates	Document Name	Download
Tender text	Tender_Text_910925864593_en_BG.txt	Download
Installation Instructions	MOUNTING-INSTRUCTION-CLEARWAY-GEN2-SIGNIFY.pdf	Download

Photometry and lighting design	Document Name	Download
LDT File	LDT File - BGP307I - 910925864593.ldt	Download
ROLF File	ROLF File - BGP307I - 910925864593.rolfz	Download
ULD File	ULD File - BGP307I - 910925864593.uld	Download

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