**BGP307 LED120-4S/740 II DM50 48/60S**

910925864607

# ClearWay gen2, Road & street light, 72 W, 10200 lm, 4000 K, CRI70, Distribution medium 50, Safety class II, IP66

Road & street light, Aluminum die cast, Gray, Universal for diameter 48 to 60 mm adjustable, Power supply unit (On/Off), 10200 lm, 72 W, 142 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 II, Surge protection level until 6 kV differential mode and 8 kV common mode, Push-in connector 5-pole

## General Information

| | |
|---|---|
| Lamp family code | LED120 [LED module 12000 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 | 10,200 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 | 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 | 72 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 II |
| 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 |

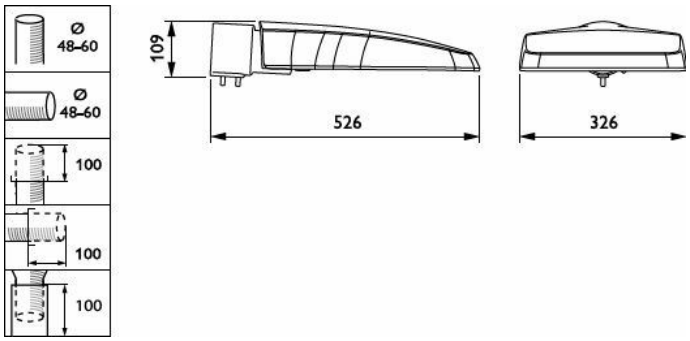
## Sustainability Data

| | |
|---|---|
| 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 |

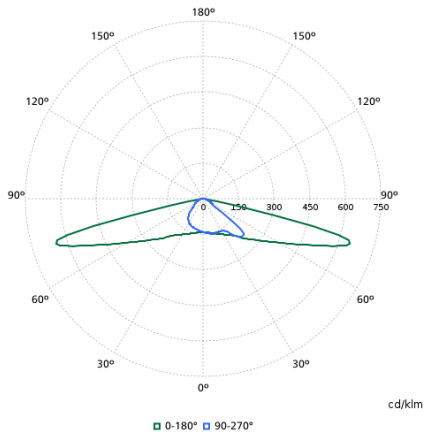
## Product Data

| | |
|---|---|
| Order product name | BGP307 LED120-4S/740 II DM50 48/60S |
| Full product name | BGP307 LED120-4S/740 II DM50 48/60S |
| Full product code | 871869698708700 |
| Order code | 98708700 |
| Material Nr. (12NC) | 910925864607 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8718696987087 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8718696987087 |
| Product family code | BGP307 [CLEARWAY GEN2] |

## Dimensional drawing




## Polar normal diagrams




## Related Documents

| Documents and certificates | Document Name | Download |
|---|---|---|
| Tender text | Tender_Text_910925864607_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 - 910925864607.ldt | Download |
| ROLF File | ROLF File - BGP307I - 910925864607.rolfz | Download |
| ULD File | ULD File - BGP307I - 910925864607.uld | Download |

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