



# ClearWay gen2

## BGP307 LED35/830 II DM11 CLL SR C10

ClearWay gen2, Road & street light, 26.5 W, 2958 lm, 3000 K, CRI80, Distribution medium 11, Safety class II, IP66

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		Light Technical	
Lamp family code	LED35 [LED module 3500 lm]	Upward light output ratio	0
Light source replaceable	Yes	Luminous Flux	2,958 lm
Number of gear units	1 unit	Correlated Color Temperature (Nom)	3000 K
Driver included	Yes	Luminous Efficacy (rated) (Nom)	112 lm/W
Light source engine type	LED	Color rendering index (CRI)	80
Service tag	Yes	Light source color	830 warm white
Lighting Technology	LED	Optic type	-
Value ladder	Performance	Luminaire light beam spread	160° - 42° x 54°
Warranty period	5 years	Optic type outdoor	Distribution medium 11

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Effective projected area	0.1151 m <sup>2</sup>
<b>Operating and Electrical</b>	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	26.5 W
Average CLO power consumption	27 W
End CLO power consumption	27.5 W
Inrush current	43 A
Inrush time	0.26 ms
Power Consumption	26.5 W
Power Factor (Fraction)	0.95
Connection	Push-in connector 5-pole
Cable	Cable 10 m without plug
Number of products on MCB of 16 A type B	21
Protection class IEC	Safety class II
Surge Protection (Common/Differential)	Surge protection level until 6 kV differential mode and 8 kV common mode
<b>Controls and Dimming</b>	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit regulating
Control interface	-
Constant light output	Yes
Maximum dim level	0% (digital)
<b>Mechanical and Housing</b>	
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)	5.815 kg
<b>Approval and Application</b>	
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	Zhaga-D4i / SR compatibility: Luminaire prepared for D4i / SR drivers and Zhaga Book18 socket, offering a standardized futureproof platform for connectivity and sensors. For Zhaga-D4i / SR based luminaires only Zhaga-D4i / SR Certified components/sensors are to be used (see also: <a href="https://www.zhagastandard.org/products">https://www.zhagastandard.org/products</a> / <a href="http://www.lighting.philips.co.uk/oem-emea/products/driving-connected-lighting">http://www.lighting.philips.co.uk/oem-emea/products/driving-connected-lighting</a> ). Functional compatibility of 2 Zhaga-D4i / SR certified components/sensors to be used in combination as well as override possibility of any lineswitch function used in a SR based luminaire, is to be released by the master component/sensor supplier. For the use of NEMA 7pin socket on a Zhaga-D4i / SR based luminaire a full system verification is required. Not following these advises can/will cause risk of damage and non-compliance for which Signify cannot take any responsibility. *-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
Ambient temperature range	-40 to +50 °C
<b>Initial Performance (IEC Compliant)</b>	
Luminous flux tolerance	+/-7%
Initial chromaticity	(0.43, 0.40) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index	+/-2
Tolerance	
Standard Deviation of Colour	SDCM≤5
Matching (McAdam ellipse)	
<b>Over Time Performance (IEC Compliant)</b>	
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 %

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<b>Lumen maintenance (EN-IEC L100 62722-2-1) at median useful life*</b>	100000 h
<b>Sustainability Data</b>	
<b>Sustainability rating</b>	Signify Circle
<b>Repair class</b>	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.
<b>Embedded carbon (A1-A3)</b>	102 kg CO <sub>2e</sub>
<b>Product non-virgin material ratio</b>	5.83 %
<b>Recyclable content ratio of the finished product</b>	50.9 %
<b>GWP total B6 (kg CO<sub>2eq</sub>) Declared Unit</b>	Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO <sub>2eq</sub> / kwh)
<b>GWP total B6 (kg CO<sub>2eq</sub>) Functional Unit</b>	Please calculate using your local energy mix value: Power Declared Unit (kW) * 1000 (lm) /lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO <sub>2eq</sub> / kwh)

<b>Product Data</b>	
<b>Order product name</b>	BGP307 LED35/830 II DM11 CLL SR C10
<b>Full product name</b>	BGP307 LED35/830 II DM11 CLL SR C10
<b>Full product code</b>	871869944980300
<b>Order code</b>	910925865715
<b>Material Nr. (12NC)</b>	910925865715
<b>Numerator - Quantity Per Pack</b>	1
<b>EAN/UPC - Product/Case</b>	8718699449803
<b>Numerator - Packs per outer box</b>	1
<b>EAN/UPC - Case</b>	8718699449803
<b>Product family code</b>	BGP307 [ClearWay gen2]

## Dimensional drawing

