



# ClearWay gen2

### BGP307 LED109-4S/740 II DM11 CLO-DDF2 D1

ClearWay gen2, LED module 10900 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	LED109 [LED module 10900 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
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark

Datasheet, 2024, March 14 data subject to change

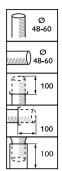
## ClearWay gen2

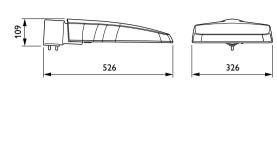
EU RoHS compliant	No
Light Technical	
Upward light output ratio	0
Luminous Flux	9,030 lm
Standard tilt angle posttop	O°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	146 lm/W
Color rendering index (CRI)	70
Light source color	740 neutral white
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	62 W
Average CLO power consumption	64 W
End CLO power consumption	65 W
Inrush current	47 A
Inrush time	0.25 ms
Power Consumption	62 W
Power Factor (Fraction)	0.99
Connection	Push-in connector 5-pole
Cable	<u> </u>
	Cable 15 m without plug
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
Constant light output	
Mechanical and Housing	
Housing Material	Aluminum die cast
Reflector material	-
Optic material	Polymethyl methacrylate
Optical cover material	Tempered glass
Fixation material	Aluminum
	Gray
Housing Color	
Housing Color  Mounting device	Universal for diameter 48 to 60 mm
<del>-</del>	Universal for diameter 48 to 60 mm adjustable
<del>-</del>	

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 Compl	iant)
Control gear failure rate at median useful	5 %
life 50000 h	
life 50000 h  Control gear failure rate at median useful	
life 50000 h  Control gear failure rate at median useful life 100000 h	10 %
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful	
life 50000 h  Control gear failure rate at median useful life 100000 h	10 %
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h	10 %
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions	10 % L100
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq	10 % L100 25 ℃
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions	10 % L100
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq	10 % L100 25 ℃
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level	10 % L100 25 ℃
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data	10 % L100  25 ℃ 0% (digital)
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data	10 % L100  25 °C 0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name	10 % L100  25 °C 0% (digital)  BGP307 LED109-4S/740 II DM11 CLO-DDF2 D1
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name	10 % L100  25 °C 0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1 BGP307 LED109-4S/740    DM11 CLO-DDF2
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name  Full product name	10 % L100  25 °C  0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name  Full product name	10 % L100  25 °C  0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1  871869699894600
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name  Full product name  Full product code  Order code	10 % L100  25 °C 0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1 BGP307 LED109-4S/740    DM11 CLO-DDF2 D1 871869699894600 910925865418
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name  Full product code  Order code  Material Nr. (12NC)	10 % L100  25 °C 0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1 BGP307 LED109-4S/740    DM11 CLO-DDF2 D1 871869699894600 910925865418 910925865418
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name  Full product rame  Full product code  Order code  Material Nr. (12NC)  Numerator - Quantity Per Pack	10 % L100  25 °C  0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1  871869699894600 910925865418 910925865418 1
life 50000 h  Control gear failure rate at median useful life 100000 h  Lumen maintenance at median useful life* 100000 h  Application Conditions  Performance ambient temperature Tq  Maximum dim level  Product Data  Order product name  Full product rame  Full product code  Order code  Material Nr. (12NC)  Numerator - Quantity Per Pack  EAN/UPC - Product/Case	10 %  L100  25 °C  0% (digital)  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1  BGP307 LED109-4S/740    DM11 CLO-DDF2 D1  871869699894600  910925865418  910925865418  1  8718696998946

## ClearWay gen2

#### Dimensional drawing







© 2024 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.