



ClearWay gen2

BGP307 LED109-4S/740 II DM11 CLO 48/60S

ClearWay gen2, LED module 10900 lm, 740 neutral white, Safety class II, Distribution medium 11, Universal for diameter 48 to 60 mm adjustable

The 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 minimise your Total Cost of Ownership. The 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	Unit	
Driver included	Yes	
Remarks	*- According to the Lighting Europe guidance	
	paper 'Evaluating performance of LED based	
	luminaires – January 2018': statistically there	
	is no relevant difference in lumen	
	maintenance between the B50 and, for	
	example, the 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	-	
ENEC mark	ENEC mark	

Datasheet, 2023, December 5 data subject to change

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But Note Complement No				
	EU RoHS compliant	No	Optical cover/lens finish	Clear
Dywards light output ratio 0 Overall height 93 mm				482 mm
Effective projected area	Light Technical		Overall width	330 mm
Standard tilt angle post-top	Upwards light output ratio	0	Overall height	93 mm
Standard tilt angle side entry	Luminous Flux	9,030 lm	Effective projected area	0.1151 m²
Correlated Colour Temperature	Standard tilt angle post-top	0°	Dimensions (height x width x depth)	93 x 330 x 482 mm
Luminous efficacy (rated) (nom.) 146 Inv/W	Standard tilt angle side entry	0°		
Colour rendering index (CRI) 70 Mech. impact protection code IKGS [10.3] Italia four colour 740 noural white Surge Protection (Common/Differents) Luminare surge protection (evel up to 6 kV political cover type Fall glass Surge Protection (Common/Differents) Luminare surge protection (evel up to 6 kV political cover type Fall glass Michael III Michael III Protection (Common/Differents) Lighting for circularity Protection (Common/Differents) Lighting for circularity Protection class IEC Safety class III Protect Class III Protection class IEC Safety class III Protect	Correlated Colour Temperature	4000 K	Approval and Application	
Light source colour 740 method white Surge Protection (Common/Oifferential) Luminaire surge protection invest up to 6 kV operand mode and 8 kV common mode with the content of the	Luminous efficacy (rated) (nom.)	146 lm/W	Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Control cover type	Colour rendering index (CRI)	70	Mech. impact protection code	IK09 [10 J]
Control light beam spread 160" - 42" x 54" Sustainability rating Lighting for circularity	Light source colour	740 neutral white	Surge Protection (Common/Differential)	Luminaire surge protection level up to 6 kV
Protection class IEC Safety class II	Optical cover type	Flat glass		differential mode and 8 kV common mode
Photobiological risk Photobiological ris	Luminaire light beam spread	160° - 42° x 54°	Sustainability rating	Lighting for circularity
Injust Voltage 220 to 240 V Photobiological risk specification 3.1 m	Optic type outdoor	Distribution medium 11	Protection class IEC	Safety class II
Input Votage 220 to 240 V Line Frequency 50 to 60 Hz Initial CLO power consumption 62 W Initial CLO power consumption 65 W End CLO power consumption 65 W Inrush current 47 A Power consumption 62 W Power Consumption 099 Connection Push-in connector 5-pole Diver failure rate at 5,000 hours 0,5 % Control gear failure rate at median useful 5 % Iiff 50,000 h Control gear failure rate at median useful 10 % Iiff 60,000 h Lumen maintenance at median useful 10 % Iiff 100,000 h Lumen maintenance at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control gear failure rate at median useful 10 % Iiff 100,000 h Control g			Photobiological risk	Photobiological risk group 1 @ 200mm to
Line Frequency 50 to 60 Hz Initial CD power consumption 62 W Average CLO power consumption 64 W Luminous flux tolerance 7/-7% Inrush current 47 A Power consumption 10 consumption 62 W Initial Abornaticity (0.38, 0.38) SDCM <5 Inrush current 47 A Power consumption tolerance 7/-10% Inrush time 0.25 ms Int. Color Rendering Index Tolerance 7/-2 Power Consumption 10 consum	Operating and Electrical			EN62471
Initial CLO power consumption 62 W Average CLO power consumption 64 W Luminous flux tolerance +/-7% Inrush current 47 A Power consumption 65 W Inrush current 47 A Power consumption 10 c25 ms Inrush current 0.25 ms Power Consumption 0.99 Connection Push-in connector 5-pole 0.25 ms Number of products on MCB of 16 A type 31 B Control gear failure rate at ## median useful 10 % Itie 100,000 h Temperature Ambient temperature range -40 to +50 °C Control sand Dimming Dimmable Yes Power supply unit (On/Off) 0.00 h Control interface - Cont	Input Voltage	220 to 240 V	Photobiological risk specification	3.1 m
Average CLO power consumption 64 W Luminous flux tolerance	Line Frequency	50 to 60 Hz		
Initial chromaticity (0.38, 0.38) SDCM < Society	Initial CLO power consumption	62 W	Initial Performance (IEC Compliant)	
Inrush current 47 A Power consumption tolerance +/-10% Inrush time 0.25 ms Init. Color Rendering Index Tolerance +/-2 Power Consumption 62 W Power Factor (Fraction) 0.99 Over Time Performance (IEC Compliant) Cable - Control gear failure rate at s.000 hours 0.5 % Number of products on MCB of 16 A type 31 Iife 50,000 h 5 % B Control gear failure rate at median useful 10 % 10 % Iffe 100,000 h Iife 100,000 h Lumen maintenance at median useful 10 % Control gear failure rate at median useful 10 % Iife 100,000 h Iife 100,000 h<	Average CLO power consumption	64 W	Luminous flux tolerance	+/-7%
Init. Color Rendering Index Tolerance 4/-2 Power Consumption 62 W Power Factor (Fraction) 0.99 Connection Push-in connector 5-pole Other failure rate at 5,000 hours 0.5 % Cable - Control gear failure rate at median useful 15 % Ilife 50,000 h Control gear failure rate at median useful 10 % Ilife 50,000 h Control gear failure rate at median useful 10 % Ilife 50,000 h Control gear failure rate at median useful 10 % Ilife 50,000 h Control gear failure rate at median useful 10 % Ilife 100,000 h Control gear failure rate at median useful 10 % Ilife 100,000 h Application Conditions Performance ambient temperature Tq 25 °C Priver/power unit/transformer Power supply unit (On/Off) Control interface - Power supply unit (On/Off) Maximum dim level 0% (digital) Product Data Order product name 86P307 LED109-45/740 II DM11 CLO 48/605 Mechanical and Housing Housing Aluminium die cast Full Food chame 871869699721500 Optic material Polymethyl methacrylate Order code 99721500 Optic material Polymethyl methacrylate Aluminium Fixation material Tempered glass Aluminium Adjustable Mounting device Universal for diameter 48 to 60 mm adjustable Init. Color Rendering Index Tolerance 4/-2 Dever Time Performance (IEC Compliant) Driver John 1 (EC Compliant) Driver John 2 (IEC Compliant) Driver John 3 (IEC Compliant) Signature at at et at at 5,000 hours 0.5 % Control gear faiture rate at median useful 10 % Ilife 50,000 h Control gear faiture rate at median useful 10 % Ilife 50,000 h Maximum dim level 0% (digital) Product Data Order product name 86P307 LED109-45/740 II DM11 CLO 48/605 Full Food thame 86P307 LED109-45/740 II DM11 CLO 48/605 Maximum dim level 0% (digital) Product Data Order product name 86P307 LED109-45/740 II DM11 CLO 48/605 Aluminium	End CLO power consumption	65 W	Initial chromaticity	(0.38, 0.38) SDCM <5
Power Consumption 62 W Power Factor (Fraction) 0.99 Connection Push-in connector 5-pole Driver failure rate at 5,000 hours 0.5 % Control gear failure rate at median useful 5 % Itife 50,000 h Control gear failure rate at median useful 10 % Itife 100,000 h Lumen maintenance at median useful 10 % Itife 100,000 h Lumen maintenance at median useful 10 % Itife 100,000 h Lumen maintenance at median useful 10 % Itife 100,000 h Control gear failure rate at section on the section of the sectio	Inrush current	47 A	Power consumption tolerance	+/-10%
Power Factor (Fraction) 0.99 Over Time Performance (IEC Compliant)	Inrush time	0.25 ms	Init. Color Rendering Index Tolerance	+/-2
Connection Push-in connector 5-pole Driver failure rate at 5,000 hours 0.5 % Cable	Power Consumption	62 W		
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Control gear failure rate at median useful 10 % life 100,000 h Lumen maintenance at median useful L100 Lumen maintenance at median useful L100 Controls and Dimming Dimmable Yes Dirver/power unit/transformer Power supply unit (On/Off) Control interface - Constant light output Yes Mechanical and Housing Housing material Aluminium die cast Reflector material Polymethyl methacrylate Optical cover/lens material Tempered glass Fixation material Aluminium Housing Colour Grey Mounting device Control gear failure rate at median useful L100 Life* 100,000 h Lumen maintenance at median useful L100 Life* 100,000 h L100 L100 L100 L100 L100 L100 L100 L10	Cable	-	Control gear failure rate at median useful	5 %
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Lumen maintenance at median useful life* 100,000 h Controls and Dimming Dimmable Yes Performance ambient temperature Tq Power supply unit (On/Off) Maximum dim level O% (digitat) Control interface Constant light output Yes Product Data Order product name BGP307 LED109-45/740 II DM11 CLO 48/60S Mechanical and Housing Housing material Aluminium die cast Pull EOC Prider code 9721500 Optic material Polymethyl methacrylate Optical cover/lens material Aluminium Housing Colour Grey Mounting device Universal for diameter 48 to 60 mm adjustable Lumen maintenance at median useful life* 100,000 h Lunen maintenance at median useful life* 100,000 h Application Conditions Performance ambient temperature Tq 25 °C Maximum dim level 0% (digitat) O% (digitat) Froduct Data Order product name BGP307 LED109-45/740 II DM11 CLO 48/60S Full EOC 871869699721500 Material no. (12 NC) 910925865243 SAP numerator – quantity per pack 1 EAN/UPC – Product/Case 8718696997215 Numerator – packs per outer box 1 EAN/UPC – Case 8718696997215	В		Control gear failure rate at median useful	10 %
Ambient temperature range -40 to +50 °C life* 100,000 h Application Conditions Performance ambient temperature Tq 25 °C Driver/power unit/transformer Power supply unit (On/Off) Maximum dim level 0% (digital) Control interface - Constant light output Yes Product Data Order product name BGP307 LED109-4S/740 II DM11 CLO 48/60S Mechanical and Housing Housing material Aluminium die cast Full EOC 871869699721500 Optic material Polymethyl methacrylate Optical cover/lens material Aluminium Fixation material Aluminium Housing Colour Grey Mounting device Universal for diameter 48 to 60 mm adjustable			life 100,000 h	
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Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off) Control interface - Constant light output Yes Mechanical and Housing Housing material Aluminium die cast Reflector material Polymethyl methacrylate Optical cover/lens material Aluminium Fixation material Aluminium Housing Colour Grey Mounting device Universal for diameter 48 to 60 mm adjustable Performance ambient temperature Tq 25 °C Maximum dim level 0% (digital) 6% (digi	Ambient temperature range	-40 to +50 °C	life* 100,000 h	
Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off) Control interface - Constant light output Yes Mechanical and Housing Housing material Aluminium die cast Reflector material Polymethyl methacrylate Optical cover/lens material Aluminium Fixation material Aluminium Housing Colour Grey Mounting device Universal for diameter 48 to 60 mm adjustable Performance ambient temperature Tq 25 °C Maximum dim level 0% (digital) 6% (digi				
Driver/power unit/transformer Power supply unit (On/Off) Control interface Constant light output Yes Product Data Order product name BGP307 LED109-4S/740 DM11 CLO 48/60S Mechanical and Housing Housing material Aluminium die cast Full EOC Reflector material Polymethyl methacrylate Order code 99721500 Optic material Polymethyl methacrylate Material no. (12 NC) 910925865243 Optical cover/lens material Fixation material Aluminium EAN/UPC — Product/Case Numerator — packs per outer box I EAN/UPC — Case 8718696997215	Controls and Dimming		Application Conditions	
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Order product name BGP307 LED109-4S/740 DM11 CLO 48/60S Full product name BGP307 LED109-4S/740 DM11 CLO 48/60S Full product name BGP307 LED109-4S/740 DM11 CLO 48/60S Full EOC 871869699721500 Reflector material - Optic material Polymethyl methacrylate Material no. (12 NC) 910925865243 Optical cover/lens material Tempered glass SAP numerator – quantity per pack Fixation material Aluminium EAN/UPC — Product/Case 8718696997215 Numerator – packs per outer box 1 EAN/UPC - Case 8718696997215 Mounting device Universal for diameter 48 to 60 mm adjustable		-		
Mechanical and HousingFull product nameBGP307 LED109-4S/740 DM11 CLO 48/60SHousing materialAluminium die castFull EOC87186969972150OReflector material-Order code9972150OOptic materialPolymethyl methacrylateMaterial no. (12 NC)910925865243Optical cover/lens materialTempered glassSAP numerator – quantity per pack1Fixation materialAluminiumEAN/UPC – Product/Case8718696997215Housing ColourGreyNumerator – packs per outer box1Mounting deviceUniversal for diameter 48 to 60 mm adjustableEAN/UPC - Case8718696997215	Constant light output	Yes	Product Data	
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Reflector material - Order code 99721500 Optic material Polymethyl methacrylate Material no. (12 NC) 910925865243 Optical cover/lens material Tempered glass SAP numerator – quantity per pack 1 Fixation material Aluminium EAN/UPC – Product/Case 8718696997215 Housing Colour Grey Numerator – packs per outer box 1 Mounting device Universal for diameter 48 to 60 mm adjustable EAN/UPC – Case 8718696997215	Housing material	Aluminium die cast	Full EOC	871869699721500
Optic material Polymethyl methacrylate Material no. (12 NC) 910925865243 Optical cover/lens material Tempered glass SAP numerator – quantity per pack 1 Fixation material Aluminium EAN/UPC – Product/Case 8718696997215 Housing Colour Grey Numerator – packs per outer box 1 Mounting device Universal for diameter 48 to 60 mm adjustable EAN/UPC – Case 8718696997215		-	Order code	99721500
Optical cover/lens material Tempered glass SAP numerator – quantity per pack 1 Fixation material Aluminium EAN/UPC – Product/Case 8718696997215 Housing Colour Grey Numerator – packs per outer box 1 Mounting device Universal for diameter 48 to 60 mm adjustable EAN/UPC - Case 8718696997215		Polymethyl methacrylate	Material no. (12 NC)	910925865243
Fixation material Aluminium EAN/UPC — Product/Case 8718696997215 Housing Colour Grey Numerator — packs per outer box 1 Mounting device Universal for diameter 48 to 60 mm adjustable EAN/UPC - Case 8718696997215			SAP numerator – quantity per pack	1
Housing Colour Grey Numerator – packs per outer box 1 EAN/UPC - Case 8718696997215 adjustable			EAN/UPC — Product/Case	8718696997215
Mounting device Universal for diameter 48 to 60 mm EAN/UPC - Case 8718696997215 adjustable			Numerator – packs per outer box	1
adjustable			EAN/UPC - Case	8718696997215
	Optical cover/lens shape			

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Dimensional drawing





