# **PHILIPS** Lighting



# **ClearWay gen2**

# BGP307 LED84-4S/740 II DM50 48/60S

ClearWay gen2, LED module 8400 lm, 740 neutral white, Safety class II, Distribution medium 50, 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	LED84 [LED module 8400 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	

## ClearWay gen2

EU RoHS compliant	No
Light Technical	
Upwards light output ratio	0
Luminous Flux	7,308 lm
Standard tilt angle post-top	O°
Standard tilt angle side entry	O°
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	148 lm/W
Colour rendering index (CRI)	70
Light source colour	740 neutral white
Optic type	-
Optical cover type	Flat glass
Luminaire light beam spread	154° - 31° x 54°
Optic type outdoor	Distribution medium 50

#### **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	49.5 W
Power Factor (Fraction)	0.98
Connection	Push-in connector 5-pole
Cable	-
Number of products on MCB of 16 A tupo	10

Number of products on MCB of 16 A type 10

в	

#### Temperature

Ambient temperature range

#### Controls and Dimming

v	
Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Control interface	-
Constant light output	No

-40 to +50 °C

#### Mechanical and Housing

0	
Housing material	Aluminium die cast
Reflector material	-
Optic material	Polymethyl methacrylate
Optical cover/lens material	Tempered glass
Fixation material	Aluminium
Housing Colour	Grey
Mounting device	Universal for diameter 48 to 60 mm
	adjustable
Optical cover/lens shape	Flat
Optical cover/lens finish	Clear

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 up to 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 Compliant)		
Driver failure rate at 5,000 hours	0.5 %	
Control gear failure rate at median useful	5 %	
life 50,000 h		
Control gear failure rate at median useful	10 %	
life 100,000 h		
Lumen maintenance at median useful	L97	
life* 100,000 h		

#### Application Conditions

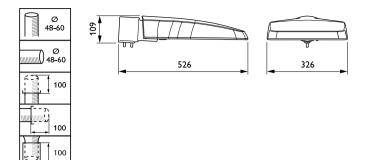
Performance ambient temperature Tq	25 °C
Maximum dim level	Not applicable

### Product Data

Order product name	BGP307 LED84-4S/740 II DM50 48/60S
Full product name	BGP307 LED84-4S/740 II DM50 48/60S
Full EOC	871869698705600
Order code	98705600
Material no. (12 NC)	910925864604
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8718696987056
Numerator – packs per outer box	1
EAN/UPC - Case	8718696987056

# ClearWay gen2

#### Dimensional drawing





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