Luma gen2

BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG

Luma gen2, Road & street light, 40.5 W, 4500 lm, 3000 K, CRI80, GPRS network, Distribution medium 11, Safety class I, IP66

The Philips Luma family is designed to deliver flexible, highly efficient, and sustainable lighting that adapts to the dynamic needs of every city. Luma gen2 preserves the distinctive design characteristics of the first generation while adding the benefits of the latest technology, including a future-proof System Ready architecture, a new LEDgine performance extension, and an optical platform that ensures best-in-class lighting performance in a broad range of applications. Luma gen2 also offers improved serviceability. Installation is eas y and fast, and Service tag gives you access to all relevant specs and product documentation onsite. The cable feed-through offers easy, top-down, tool-less access to the luminaire's gear components. Because Luma gen2 is System Ready, your can pair it with connected lighting management systems such as Interact, or with existing and future sensor innovations. Luma gen2 has been developed to optimize and simplify repairs and maintenance with a plug-and-play GearFlex module containing all electrical components in an easy-to-handle and accessible box inside the housing. Because sustainability is our focus, the GearFlex module uses post-industrial recycled material, The white frame around the LED engine uses post-industrial recycled material, and our product packaging minimizes plastic waste. The product can be disassembled in only a few steps at end of life. As a company conscious of the impact of light on the environment and biodiversity, we equipped Luma gen2 luminaires with dedicated light recipes that help to protect ecosystems for bats and preserve the dark night sky.

Product data

Luma gen2

General Information

Lamp family code	LED50 [LED module 5000 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	Specification
Warranty period	5 years
Sustainability rating	Lighting for circularity

Light Technical

Upward light output ratio	0
Luminous Flux	4,500 lm
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	111 lm/W
Color rendering index (CRI)	80
Light source color	830 warm white
Luminaire light beam spread	70° x 37°
Optic type outdoor	Distribution medium 11
Effective projected area	0.054 m²

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	21 A
Inrush time	0.3 ms
Power Consumption	40.5 W
Power Factor (Fraction)	0.98
Connection	Connection unit 5-pole
Cable	–
Number of products on MCB of 16 A type B	21
Protection class IEC	Safety class I
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI and SystemReady interface
Control interface	GPRS network
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	Glass
Fixation material	Aluminum
Housing Color	Gray

Mounting device	Post-top for diameter 60 mm
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	520 mm
Overall width	236 mm
Overall height	260 mm
Dimensions (Height x Width x Depth)	260 x 236 x 520 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	–
Optical cover type	Glass
Net Weight (Piece)	6.528 kg

Approval and Application

Flammability mark	–
CE mark	Yes
ENEC mark	ENEC plus mark
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
Remarks	* At extreme ambient temperatures the luminaire might automatically dim down to protect components
Ambient temperature range	–40 to +50 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.434, 0.403) 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)

Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L96
Lumen maintenance at median useful life* 100000 h	L98

Product Data

Order product name	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG
Full product name	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG
Full product code	871951410585000
Order code	910925867326
Material Nr. (12NC)	910925867326

Luma gen2

Numerator – Quantity Per Pack	1	**Product family code**	BGP701 [LUMA GEN2 NANO]
EAN/UPC – Product/Case	8719514105850		
Numerator – Packs per outer box	1		
EAN/UPC – Case	8719514105850		

Dimensional drawing