Luma gen2

BGP704 LED140-4S/740 DM50 GF SRT SRB 60

LUMA GEN2 MEDIUM, LED module 14000 lm, LED, 83 W, Power supply unit with DALI and SystemReady interface, Distribution medium 50, Glass, 154° - 31° x 54°, Internal (no external connection), Post-top for diameter 60 to 76 mm

Luma gen2 is the next generation of the Luma LED luminaire family, fully optimised to become your long-term lighting and innovation partner. While keeping the distinctive design characteristics of the first generation, Luma gen2 gives you the benefits of the latest technologies thanks to its future-proof System Ready architecture, use of optimised Ledgine LED and optical platform ensuring best-in-class lighting performance in a broad range of applications. It also offers improved serviceability. Installation has also become easier and faster, and thanks to the Service tag, you have access to all relevant documentations onsite. Also, the cable feed-through has been redesigned and access to the gear components is easy thanks to top down tool-less access. Luma gen2 also offers all connectivity and dimming options available today and thanks to being System Ready, it can also to be paired with lighting management systems such as Interact City or existing and upcoming sensor innovations. The Luma gen2 has been developed to optimise and simplify spare part repair and maintenance work using a new plug-and-play GearFlex module containing all electrical components in an easy to handle and accessible box inside the housing. As a company conscious about the impact of light on the environment and biodiversity, we also equipped the Luma gen2 with dedicated light recipes that help with maintaining the optimal ecosystems for bats or preserve a dark night sky.

Product data

General Information		Light source replaceable	Yes
Lamp family code	LED140 [LED module 14000 lm]	Number of gear units	Unit

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Driver included	Yes		**Optical cover/lens material**	Glass
Remarks	* At extreme ambient temperatures the luminaire might automatically dim down to protect components		**Fixation material**	Aluminium
			Housing Colour	Grey
			Mounting device	Post-top for diameter 60 to 76 mm
Light source engine type	LED		**Optical cover/lens shape**	Flat
Product family code	BGP704 [LUMA GEN2 MEDIUM]		**Optical cover/lens finish**	Clear
Lighting Technology	LED		**Overall length**	657 mm
Value ladder	Specification		**Overall width**	360 mm
CE mark	Yes		**Overall height**	245 mm
Warranty period	5 years		**Effective projected area**	0.136 m²
Flammability mark	–		**Dimensions (height x width x depth)**	245 x 360 x 657 mm
ENEC mark	ENEC plus mark			
EU RoHS compliant	Yes			

Light Technical

			Approval and Application	
Upwards light output ratio	0		**Ingress protection code**	IP66 [Dust penetration-protected, jet-proof]
Luminous Flux	12,740 lm		**Mech. impact protection code**	IK09 [10 J]
Standard tilt angle post-top	0°		**Surge Protection (Common/Differential)**	Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode
Standard tilt angle side entry	–			
Correlated Colour Temperature	4000 K		**Sustainability rating**	Lighting for circularity
Luminous efficacy (rated) (nom.)	153 lm/W		**Protection class IEC**	Safety class I
Colour rendering index (CRI)	>70			
Light source colour	740 neutral white		**Initial Performance (IEC Compliant)**	
Optical cover type	Glass		**Luminous flux tolerance**	+/-7%
Luminaire light beam spread	154° – 31° x 54°		**Initial chromaticity**	(0.382, 0.380) SDCM 5
Optic type outdoor	Distribution medium 50		**Power consumption tolerance**	+/-10%
			Init. Color Rendering Index Tolerance	+/-2

Operating and Electrical

			Over Time Performance (IEC Compliant)	
Input Voltage	220 to 240 V		**Driver failure rate at 5,000 hours**	0.005 %
Line Frequency	50 to 60 Hz		**Control gear failure rate at median useful life 100,000 h**	10 %
Inrush current	4 A			
Inrush time	2.7 ms		**Lumen maintenance at median useful life* 100,000 h**	L97
Power Consumption	83 W			
Power Factor (Fraction)	0.98			
Connection	Connection unit 5-pole		**Application Conditions**	
Cable	–		**Performance ambient temperature Tq**	25 °C
Number of products on MCB of 16 A type B	23		**Maximum dim level**	Not applicable

Temperature

			Product Data	
Ambient temperature range	–40 to +50 °C		**Order product name**	BGP704 LED140-4S/740 DM50 GF SRT SRB 60

Controls and Dimming

Dimmable	No		**Full product name**	BGP704 LED140-4S/740 DM50 GF SRT SRB 60
Driver/power unit/transformer	Power supply unit with DALI and SystemReady interface		**Full EOC**	871951405974000
			Order code	05974000
Control interface	Internal (no external connection)		**Material no. (12 NC)**	910925866542
Constant light output	No		**SAP numerator – quantity per pack**	1
			EAN/UPC — Product/Case	8719514059740

Mechanical and Housing

Housing material	Aluminium die cast		**Numerator – packs per outer box**	1
Reflector material	–		**EAN/UPC – Case**	8719514059740
Optic material	Polymethyl methacrylate			

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Dimensional drawing

www.lighting.philips.com

2023, April 14 – data subject to change