PHILIPS

Luma gen2

BGP701

Luma gen2: the standard in road lighting redefined, with Ultra Efficient performance options

The 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 easy and fast, and Service tag gives you access to all relevant specs and product documentation on-site. The cable feed-through offers easy, top-down, tool-less access to the luminaire's gear components. Because Luma gen2 is System Ready, you can pair it with connected lighting management systems such as Interact or with existing and future sensor innovations. Luma gen2 has been developed to optimise 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 minimises 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.

Benefits

- Best-in-class efficiency and light performance in a broad range of applications
- Ease of repairs and maintenance via a dedicated GearFlex module
- Easy disassembly at end of life
- Future-ready thanks to the SR (System Ready) socket
- The luminaire is equipped with dedicated light recipes that help to maintain optimal ecosystems for bats, preserve the dark night sky and reduce light pollution
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare parts information on-site

Applications

- Motorways, inter-urban main roads, boulevards and avenues, roundabouts, pedestrian crossings
- Residential streets, side streets, squares, parks, cycle and pedestrian paths, playgrounds
- Parking areas, industrial areas, petrol stations, rail yards, airports, harbours, waterways

Features

- Dedicated GearFlex module enabling faster, safer and tool-less maintenance
- Post-industrial recycled plastic material used in the GearFlex module and the white frame around the LED compartment
- >85% recyclable aluminium content
- Cable feed-through for easy installation
- Ready to be connected to Interact connected lighting management systems
- Ready to be paired with third-party lighting management systems and sensors
- Tilt with precision of 2.5 degrees
- Efficacy up to 200 lm /W for selected configurations
- Choice of 40+ different beams and different internal louvres
- flux optimisation tool
- Surge protection up to 10 kV
- Wide range of lumen packages, ranging from 1,000 to 89,000 lm
- Various CCTs ranging from 1800K – 5700K

Versions

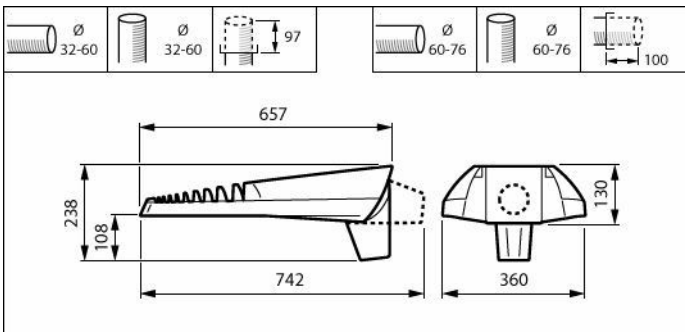
Luma gen2 Nano with SR

Luma gen2 Micro with SR

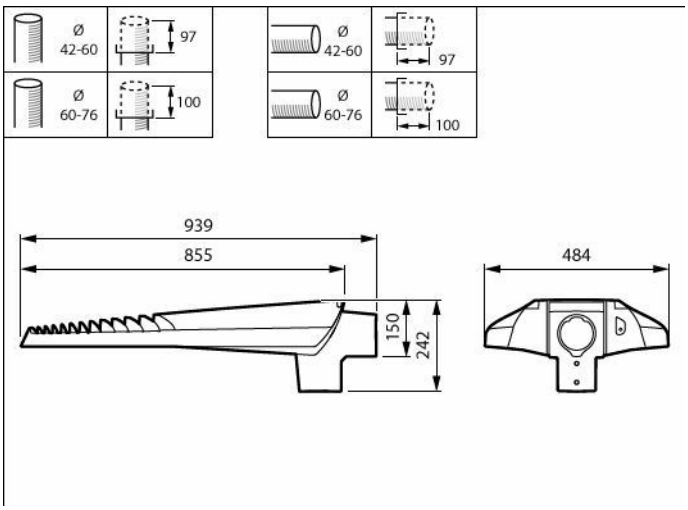
Luma gen2 Large with SR

Luma gen2 Medium with SR

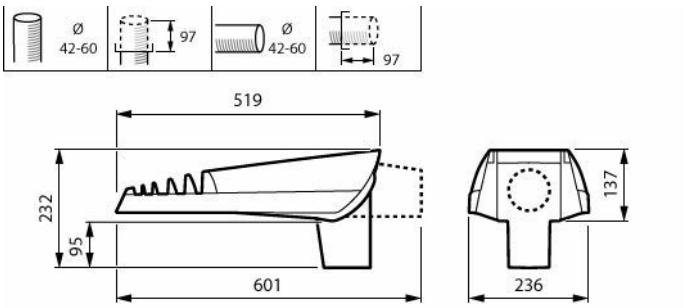
Dimensional drawing



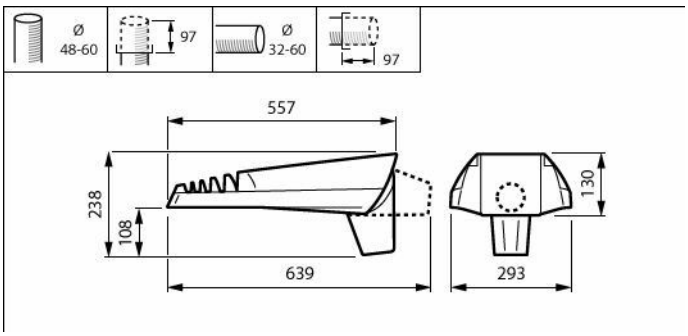
BGP704 LED140-4S/740 DM50 GF SRT SRB 60



BGP705 LED150-4S/740 DM11 GF SRT SRB 60/



BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6



BGP702 LW10 LED50-4S/830 DM11 GF CTGO

Product details

BGP701 Luma gen2 Nano FG DPP

BGP701 Luma gen2 Nano Open2 DPP

BGP705 Luma gen2 Large FG DPP

BGP705 Luma gen2 Large Open1 DPP

General Information

Light source replaceable	Yes
Number of gear units	Unit
Driver included	Yes
Service Tag	Yes

Light Technical

Upwards light output ratio	0

Operating and Electrical

Surge Protection (Common/Differential)	Surge protection level until 6 kV differential mode and 8 kV common mode

Controls and Dimming

Dimmable	No
Maximum dim level	Not applicable

Mechanical and Housing

Housing Colour	Grey
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Standard tilt angle post-top	0°
Standard tilt angle side entry	-
Optical cover type	Glass

Approval and Application

Flammability mark	-
CE mark	Yes

Over Time Performance (IEC Compliant)

Driver failure rate at 5,000 hours	0.005 %

General Information

Order Code	Full Product Name	Lamp family code
910925867324	BGP701 LED8-4S/740 DM11 FG GR 42/60P	LED8
910925867325	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	LED40
910925866534	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	LED60
910925866535	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	LED40
910925866536	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	LED50
910925867142	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	LED150
910925866542	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	LED140
910925866544	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	LED120

Light Technical

Order Code	Full Product Name	Luminous Flux	Correlated Colour Temperature (Nom)	Colour rendering index (CRI)	Light source colour	Luminaire light beam spread	Optic type outdoor
910925867324	BGP701 LED8-4S/740 DM11 FG GR 42/60P	728 lm	4000 K	70	740 neutral white	70° x 37°	Distribution medium 11
910925867325	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	3,600 lm	4000 K	70	740 neutral white	73° x 44°	Distribution medium 10
910925866534	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	5,400 lm	4000 K	70	740 neutral white	70° x 37°	Distribution medium 11
910925866535	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	3,600 lm	4000 K	70	740 neutral white	73° x 44°	Distribution medium 10
910925866536	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	4,500 lm	3000 K	80	830 warm white	70° x 37°	Distribution medium 11
910925867142	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	13,500 lm	4000 K	70	740 neutral white	70° x 37°	Distribution medium 11
910925866542	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	12,740 lm	4000 K	70	740 neutral white	154° - 31° x 54°	Distribution medium 50
910925866544	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	10,920 lm	3000 K	80	830 warm white	70° x 37°	Distribution medium 11

Operating and Electrical

Order Code	Full Product Name	Power Consumption
910925867324	BGP701 LED8-4S/740 DM11 FG GR 42/60P	6.1 W
910925867325	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	25 W
910925866534	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	38 W
910925866535	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	25 W
910925866536	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	40.5 W
910925867142	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	87 W
910925866542	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	83 W
910925866544	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	91 W

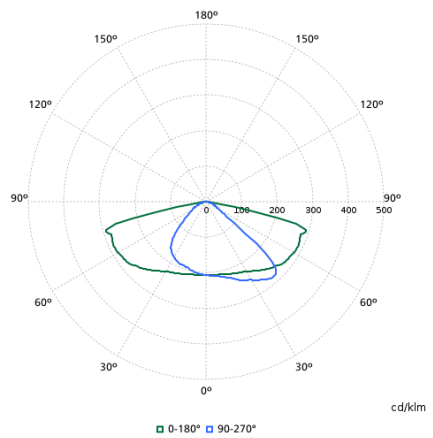
Mechanical and Housing

Order Code	Full Product Name	Mech. impact protection code
910925867324	BGP701 LED8-4S/740 DM11 FG GR 42/60P	IK10
910925867325	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	IK09
910925866534	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	IK09
910925866535	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	IK09
910925866536	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	IK09
910925867142	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	IK09
910925866542	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	IK09
910925866544	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	IK09

Product Data

Order Code	Full Product Name	Product family code
910925867324	BGP701 LED8-4S/740 DM11 FG GR 42/60P	BGP701
910925867325	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	BGP701
910925866534	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	BGP702
910925866535	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	BGP702
910925866536	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	BGP702
910925867142	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	BGP705
910925866542	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	BGP704
910925866544	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	BGP704

Polar normal diagrams



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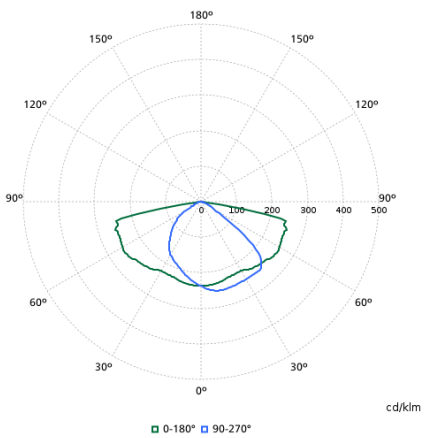

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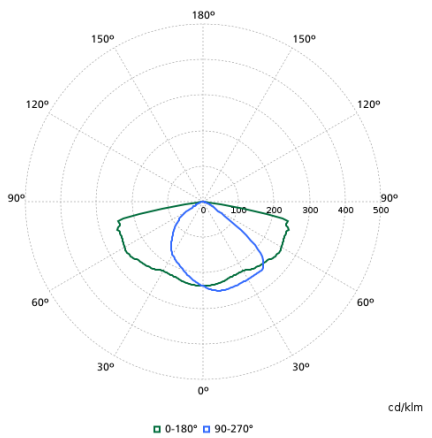

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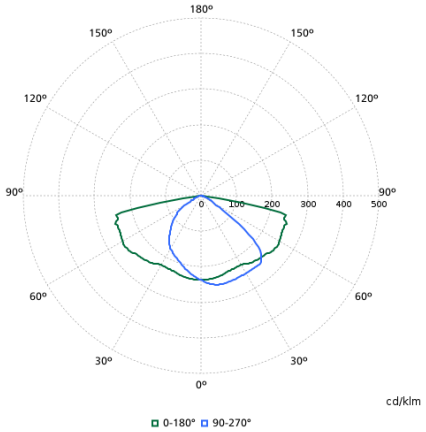

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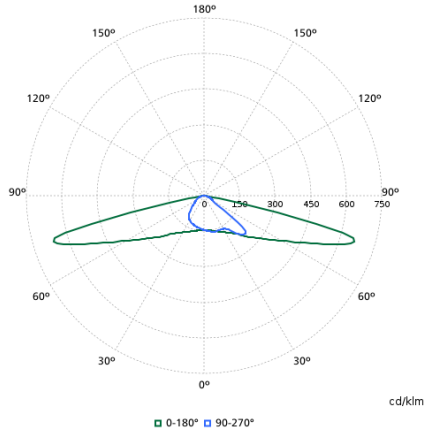

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