

Luma gen2 – The standard in road lighting, redefined

Luma gen2

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 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.

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Benefits

- Ease of maintenance and spare part repair enabled through the dedicated GearFlex module
- Best-in-class efficiency and light performance in a broad range of applications
- Future-ready thanks to the SR (System Ready) socket
- The luminaire is also equipped with dedicated light recipes that help with: 1) maintaining the optimal ecosystems for bats 2) preserve a dark night sky and reduce light pollution
- Equipped with a service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

Features

- Dedicated GearFlex module enabling faster, safer and tool-less maintenance
- New cable feed-through for easy installation
- Ready to be connected to the Interact City lighting management software
- Ready to be paired with third-party lighting management systems and sensors
- Tilt now with 2-5-degree precision
- Efficacy up to 155 lm/W
- Choice of 40+ different beams and the option of different internal louvres
- Further optimisation on performance flux level enabled by the Philips L-Tune
- Surge protection up to 10 kV
- Wide range of lumen packages, ranging from 1,000 to 55,000 lm

Application

- 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

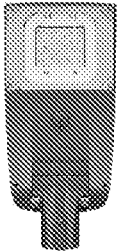
Specifications

Ambient Temperature	-40 to +50 °C
Main colour of the luminaire	Grey
Dimming	No, yes
Driver	Power supply unit with DALI and SystemReady interface (Power supply unit with DALI and SystemReady interface)
Driver failure rate at 5,000 h in %	0.005 %
Initial correlated colour temperature	1000 K, 3000 K, 4000 K
Initial input power	21.5 W, 25 W, 38 W, 40.5 W, 52 W, 61 W, 74 W, 83 W, 87 W, 91 W
Initial LED luminaire efficacy	86, 111, 119, 120, 142, 144, 146, 148, 153, 155 lm/W
Initial luminous flux	10800 lm, 10920 lm, 12740 lm, 13500 lm, 3185 lm, 3600 lm, 4482 lm, 4500 lm, 5400 lm, 728 lm
Input frequency	50 to 60 Hz
Input voltage	220 to 240 V
Inrush current (A)	4, 11.5, 18, 21 A

Light source colour	510 ClearField, 740 neutral white, 830 warm white
Light source replaceable	Yes
Material	Bracket:
Material	Gear box:
Material	Housing: aluminium die-cast
Optic	Distribution medium 10, distribution medium 11, distribution medium 50
Optical cover	Polymethyl methacrylate
Surge protection	Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode
Tilt angle housing	Standard tilt angle post-top: 0°Standard tilt angle side entry: -
Type	BGP701
	BGP702
	BGP703
	BGP704
	BGP705

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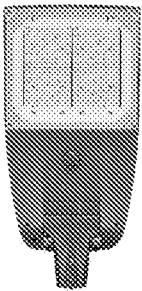
Versions



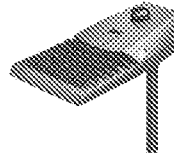
LUMA GEN2 MICRO - LED module
6000 lm - LED - 70° x 37°



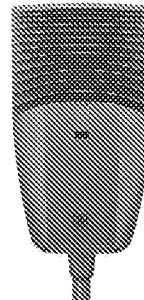
LUMA GEN2 MINI - LED module
12000 lm - LED - 154° - 31° x 54°



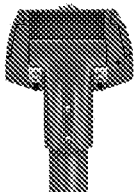
LUMA GEN2 MEDIUM - LED
module 14000 lm - LED - 154° - 31°
x 54°



LUMA GEN2 MEDIUM - LED
module 14000 lm - LED - 70° x 37°



LUMA GEN2 LARGE - LED module
12000 lm - LED - 154° - 31° x 54°



LUMA GEN2 NANO - LED Module,
system flux 800 lm - LED - 160° -
42° x 54°

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Product details



Application Conditions	
Maximum dim level	Not applicable
Approval and Application	
Surge Protection (Common/Differential)	Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode
General Information	
CE mark	CE mark
Optical cover/lens type	G
Driver included	Yes
Flammability mark	NO
Light source replaceable	Yes
Number of gear units	1 unit
Light Technical	
Standard tilt angle side entry	-
Standard tilt angle posttop	0°
Upward light output ratio	0
Mechanical and Housing	
Colour	Grey

-		
Order Code	Full Product Name	Driver failure rate at 5000 h
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	0.005 %
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	0.005 %
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	0.005 %
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	0.005 %
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	0.005 %
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	0.005 %
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	0.005 %
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	0.005 %
10403700	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	0.005 %
10583600	BGP701 LED8-4S/740 DM11 FG GR 42/60P	-
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	-
10585000	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG	-
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	-

Approval and Application

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Order Code	Full Product Name	Mech. impact protection code
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	IK09
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	IK09
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	IK09
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	IK09
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	IK09
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	IK09
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	IK09

Controls and Dimming

Order Code	Full Product Name	Dimmable
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	No
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	No
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	Yes
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	No
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	No
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	No
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	Yes

General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light source colour	Lamp family code	Optic type
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	70° x 37°	740 neutral white	LED60	Distribution medium 11
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	73° x 44°	740 neutral white	LED40	Distribution medium 10
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	70° x 37°	830 warm white	LED50	Distribution medium 11
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	154° - 31° x 54°	740 neutral white	LED120	Distribution medium 50
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	70° x 37°	510 ClearField	LED54	Distribution medium 11
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	154° - 31° x 54°	740 neutral white	LED140	Distribution medium 50
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	70° x 37°	830 warm white	LED120	Distribution medium 11

Order Code	Full Product Name	Mech. impact protection code
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	IK09
10403700	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	IK09
10583600	BGP701 LED8-4S/740 DM11 FG GR 42/60P	IK10
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	IK09
10585000	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG	IK09
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	IK09

Order Code	Full Product Name	Dimmable
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	No
10403700	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	No
10583600	BGP701 LED8-4S/740 DM11 FG GR 42/60P	No
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	No
10585000	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG	Yes
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	No

Order Code	Full Product Name	Luminaire light beam spread	Light source colour	Lamp family code	Optic type
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	70° x 37°	740 neutral white	LED140	Distribution medium 11
10403700	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	70° x 37°	740 neutral white	LED150	Distribution medium 11
10583600	BGP701 LED8-4S/740 DM11 FG GR 42/60P	70° x 37°	740 neutral white	LED8	Distribution medium 11
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	73° x 44°	740 neutral white	LED40	Distribution medium 10
10585000	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG	70° x 37°	830 warm white	LED50	Distribution medium 11
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	70° x 37°	740 neutral white	LED35	Distribution medium 11

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General Information (2/2)

Order Code	Full Product Name	Product Family Code
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	BGP702
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	BGP702
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	BGP702
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	BGP703
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	BGP703
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	BGP704
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	BGP704

Order Code	Full Product Name	Product Family Code
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	BGP704
10403700	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	BGP705
10583600	BGP701 LED8-4S/740 DM11 FG GR 42/60P	BGP701
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	BGP701
10585000	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG	BGP701
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	BGP701

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Colour Temperature	Init. Colour Rendering Index	Initial luminous flux
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	4000 K	>70	5400 lm
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	4000 K	>70	3600 lm
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	3000 K	>80	4500 lm
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	4000 K	>70	10800 lm
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	1000 K	>60	4482 lm
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	4000 K	>70	12740 lm
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	3000 K	>80	10920 lm

Order Code	Full Product Name	Init. Corr. Colour Temperature	Init. Colour Rendering Index	Initial luminous flux
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	4000 K	>70	12740 lm
10403700	BGP705 LED150-4S/740 DM11 GF SRT SRB 60/	4000 K	>70	13500 lm
10583600	BGP701 LED8-4S/740 DM11 FG GR 42/60P	4000 K	>70	728 lm
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	4000 K	>70	3600 lm
10585000	BGP701 LW10 LED50-4S/830 DM11 GF CTGO-DG	3000 K	>80	4500 lm
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	4000 K	>70	3185 lm

