



# Luma gen2 – The standard in road lighting, redefined

## Luma gen2

Luma gen2 is the next generation of the Luma LED luminaire family, fully optimized 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 optimized 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 optimize and simplify spare part repair and maintenance work using a new plug & 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.

## 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
- 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 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 feedthrough 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 degrees precision
- Efficacy up to 155 lm/W
- Choice of 40+ different beams and option of different internal louvers
- Further optimization on performance flux level enabled by the Philips L-Tune
- Surge protection up to 10kV
- 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, harbors, waterways

## Specifications

<b>Ambient Temperature</b>	-40 to +50 °C
<b>Main color of the Luminaire</b>	Gray
<b>Dimming</b>	No, yes
<b>Driver</b>	Power supply unit with DynaDimmer (PSDD) Power supply unit with DALI and SystemReady interface (Power supply unit with DALI and SystemReady interface)
<b>Driver failure rate at 5000 h in %</b>	0.005 %
<b>Initial correlated color temperature</b>	1000 K, 3000 K, 4000 K
<b>Initial input power</b>	166 W, 174 W, 21.5 W, 25 W, 31.5 W, 38 W, 40.5 W, 52 W, 71 W, 74 W, 79 W, 83 W, 91 W
<b>Initial LED luminaire efficacy</b>	86, 108, 109, 111, 120, 142, 144, 146, 148, 150, 153, 154 lm/W
<b>Initial luminous flux</b>	10800 lm, 10920 lm, 12740 lm, 17850 lm, 26700 lm, 3185 lm, 3220 lm, 3600 lm, 4482 lm, 4500 lm, 4550 lm, 5400 lm, 8600 lm

<b>Input frequency</b>	50 to 60 Hz
<b>Input voltage</b>	220 to 240 V
<b>Inrush current (A)</b>	4, 21, 58 A
<b>Light source color</b>	510 ClearField, 740 neutral white, 830 warm white
<b>Light source replaceable</b>	Yes
<b>Material</b>	Bracket:
<b>Material</b>	Gear box:
<b>Material</b>	Housing: aluminum die-cast
<b>Optic</b>	Distribution extra wide 10, distribution medium 10, distribution medium 11, distribution medium 12, distribution medium 50, distribution wide 50
<b>Optical cover</b>	Polymethyl methacrylate
<b>Surge protection</b>	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
<b>Tilt angle housing</b>	Standard tilt angle posttop: 0°Standard tilt angle side entry: -

# Luma gen2

Type	BGP701
	BGP702
	BGP703

BGP704
BGP705

## Versions

Luma gen2 Micro bottom view



Luma gen2 Micro with EasyAir module



Luma gen2 Mini bottom view



Luma gen2 Medium bottom view



Luma gen2 Medium with EasyAir module



BGP705 Luma gen2 Large GearFlex1



# Luma gen2

## Versions

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



## Product details

BGP705 Luma gen2 Large FG DPP



BGP705 Luma gen2 Large Open1  
DPP



BGP701 Luma gen2 Nano FG DPP



BGP701 Luma gen2 Nano Open2  
DPP



## Approval and Application

<b>Surge Protection (Common/Differential)</b>	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
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## General Information

<b>CE mark</b>	CE mark
<b>Optical cover/lens type</b>	G
<b>Driver included</b>	Yes
<b>Flammability mark</b>	NO
<b>Light source replaceable</b>	Yes
<b>Service tag</b>	Yes

## Light Technical

<b>Standard tilt angle side entry</b>	-
<b>Standard tilt angle posttop</b>	0°
<b>Upward light output ratio</b>	0

## Mechanical and Housing

<b>Color</b>	Gray
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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 %
05969600	BGP702 LED35-4S/740 II DM11 GF EZR SRB 6	0.005 %
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	0.005 %
05971900	BGP703 LED100-4S/830 II DW50 GF SRT SRB	0.005 %
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	0.005 %
05973300	BGP703 LED50-4S/740 II DM11 GF EZR SRB 6	0.005 %
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	0.005 %
05975700	BGP704 LED210-4S/830 II DX10 GF D18 DDF3	0.005 %
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	0.005 %
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	0.005 %
10401300	BGP705 LED120-4S/740 DM50 GF SRT SRB 60	0.005 %
10404400	BGP705 LED300-4S/740 II DM11 GF SRT SRB	0.005 %
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	-
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	-

## Application Conditions

Order Code	Full Product Name	Maximum dim level
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	Not applicable
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	Not applicable
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	Not applicable
05969600	BGP702 LED35-4S/740 II DM11 GF EZR SRB 6	Not applicable
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	Not applicable
05971900	BGP703 LED100-4S/830 II DW50 GF SRT SRB	Not applicable
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	Not applicable
05973300	BGP703 LED50-4S/740 II DM11 GF EZR SRB 6	Not applicable

Order Code	Full Product Name	Maximum dim level
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	Not applicable
05975700	BGP704 LED210-4S/830 II DX10 GF D18 DDF3	30%
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	Not applicable
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	Not applicable
10401300	BGP705 LED120-4S/740 DM50 GF SRT SRB 60	Not applicable
10404400	BGP705 LED300-4S/740 II DM11 GF SRT SRB	Not applicable
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	Not applicable
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	Not applicable

## Approval and Application

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
05969600	BGP702 LED35-4S/740 II DM11 GF EZR SRB 6	IK09
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	IK09
05971900	BGP703 LED100-4S/830 II DW50 GF SRT SRB	IK09
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	IK09
05973300	BGP703 LED50-4S/740 II DM11 GF EZR SRB 6	IK09

Order Code	Full Product Name	Mech. impact protection code
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	IK09
05975700	BGP704 LED210-4S/830 II DX10 GF D18 DDF3	IK10
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	IK09
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	IK09
10401300	BGP705 LED120-4S/740 DM50 GF SRT SRB 60	IK09
10404400	BGP705 LED300-4S/740 II DM11 GF SRT SRB	IK09
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	IK09
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	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
05969600	BGP702 LED35-4S/740 II DM11 GF EZR SRB 6	No
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	No
05971900	BGP703 LED100-4S/830 II DW50 GF SRT SRB	No
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	No
05973300	BGP703 LED50-4S/740 II DM11 GF EZR SRB 6	No

Order Code	Full Product Name	Dimmable
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	No
05975700	BGP704 LED210-4S/830 II DX10 GF D18 DDF3	Yes
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	Yes
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	No
10401300	BGP705 LED120-4S/740 DM50 GF SRT SRB 60	No
10404400	BGP705 LED300-4S/740 II DM11 GF SRT SRB	No
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	No
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	No

General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Lamp family code	Number of gear units
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	70° x 37°	740 neutral white	LED60	1 unit
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	73° x 44°	740 neutral white	LED40	1 unit
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	70° x 37°	830 warm white	LED50	1 unit
05969600	BGP702 LED35-4S/740 II DM11 GF EZR SRB 6	70° x 37°	740 neutral white	LED35	1 unit
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	154° - 31° x 54°	740 neutral white	LED120	1 unit
05971900	BGP703 LED100-4S/830 II DW50 GF SRT SRB	150° - 43° x 67°	830 warm white	LED100	1 unit
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	70° x 37°	510 ClearField	LED54	1 unit
05973300	BGP703 LED50-4S/740 II DM11 GF EZR SRB 6	70° x 37°	740 neutral white	LED50	1 unit
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	154° - 31° x 54°	740 neutral white	LED140	1 unit

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Lamp family code	Number of gear units
05975700	BGP704 LED210-4S/830 II DX10 GF D18 DDF3	150° - 43° x 67°	830 warm white	LED210	1 unit
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	70° x 37°	830 warm white	LED120	1 unit
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	70° x 37°	740 neutral white	LED140	1 unit
10401300	BGP705 LED120-4S/740 DM50 GF SRT SRB 60	154° - 31° x 54°	740 neutral white	LED120	1 unit
10404400	BGP705 LED300-4S/740 II DM11 GF SRT SRB	70° x 37°	740 neutral white	LED300	3 unit
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	73° x 44°	740 neutral white	LED40	1 unit
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	70° x 37°	740 neutral white	LED35	1 unit

General Information (2/2)

Order Code	Full Product Name	Optic type	Product Family Code
05966500	BGP702 LED60-4S/740 DM11 GF SRT SRB 60/7	Distribution 11	BGP702

Order Code	Full Product Name	Optic type	Product Family Code
05967200	BGP702 LED40-4S/740 DM10 GF SRT SRB 60/7	Distribution 10	BGP702

Order Code	Full Product Name	Optic type	Product Family Code
05968900	BGP702 LW10 LED50-4S/830 DM11 GF CTGO	Distribution medium 11	BGP702
05969600	BGP702 LED35-4S/740 II DM11 GF EZR SRB 6	Distribution medium 12	BGP702
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	Distribution medium 50	BGP703
05971900	BGP703 LED100-4S/830 II DW50 GF SRT SRB	Distribution wide 50	BGP703
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	Distribution medium 11	BGP703
05973300	BGP703 LED50-4S/740 II DM11 GF EZR SRB 6	Distribution medium 11	BGP703
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	Distribution medium 50	BGP704

Order Code	Full Product Name	Optic type	Product Family Code
05975700	BGP704 LED210-4S/830 II DX10 GF D18 DDF3	Distribution extra wide 10	BGP704
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	Distribution medium 11	BGP704
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	Distribution medium 11	BGP704
10401300	BGP705 LED120-4S/740 DM50 GF SRT SRB 60	Distribution medium 50	BGP705
10404400	BGP705 LED300-4S/740 II DM11 GF SRT SRB	Distribution medium 11	BGP705
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	Distribution medium 10	BGP701
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	Distribution medium 11	BGP701

## Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color 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
05969600	BGP702 LED35-4S/740 II DM11 GF EZR SRB 6	4000 K	>70	3220 lm
05970200	BGP703 LED120-4S/740 DM50 GF SRT SRB 60	4000 K	>70	10800 lm
05971900	BGP703 LED100-4S/830 II DW50 GF SRT SRB	3000 K	>80	8600 lm
05972600	BGP703 LED54-4S/610 DM11 GF SRT SRB 60/7	1000 K	>60	4482 lm
05973300	BGP703 LED50-4S/740 II DM11 GF EZR SRB 6	4000 K	>70	4550 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
05974000	BGP704 LED140-4S/740 DM50 GF SRT SRB 60	4000 K	>70	12740 lm
05975700	BGP704 LED210-4S/830 II DX10 GF D18 DDF3	3000 K	>80	17850 lm
05976400	BGP704 LW10 LED120-4S/830 DM11 GF CTGO	3000 K	>80	10920 lm
05977100	BGP704 LED140-4S/740 DM11 GF EZR SRB	4000 K	>70	12740 lm
10401300	BGP705 LED120-4S/740 DM50 GF SRT SRB 60	4000 K	>70	10920 lm
10404400	BGP705 LED300-4S/740 II DM11 GF SRT SRB	4000 K	>70	26700 lm
10584300	BGP701 LED40-4S/740 DM10 GF SRT SRB 42/6	4000 K	>70	3600 lm
10586700	BGP701 LED35-4S/740 II DM11 GF EZR SRB 4	4000 K	>70	3185 lm

