



Luma – the vision is reality

Luma Micro

Luma is a REVOLED™ road-lighting luminaire with a clear design identity, offering a perfectly cooled, fit-and-forget solution for all streets and roads. The lumen package, lifetime and energy profile can be tuned to create the desired solution in terms of energy and cost savings. Luma can be programmed to keep the flux of the LEDs at a predefined constant level over the lifetime of the luminaire – by increasing the operating current over time to compensate for the LED lumen depreciation. This eliminates over-lighting at the beginning, enabling additional extra energy savings. Luma's truly flat design prevents upward light, and the OPTIFLUX™ lens optics meet current lighting standards. To optimize the light distribution for varying road geometries and/or glare restrictions, the tilt angle can easily be adjusted on installation.

Benefits

- Choice of lens optics to match international road and street geometries
- Combination of lenses and tilt adjustment options ensures high project flexibility
- Dedicated lumen packages deliver energy savings of over 50%, with a related reduction in CO₂ emissions

Features

- REVOLED™ technology for an integrated, uncompromised approach to LED luminaire design
- COO-LED™ thermal management – the integral design approach taken ensures that many luminaire parts contribute to the coolest and therefore most efficient lighting solution
- L-Tune tool
- Adjustable tilt angle

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

Type	BGP615
Light source	Integral LED-module
Power	WW: 5.6 up to 40W, NW/CW: 5.9 up to 43.5W
Luminous flux	Neutral and Cool white: nominal: 800 to 6,500 lm system: 700 to 6,100 lm Warm white: nominal: 600 to 4,900 lm system: 500 to 4,500 lm Or tailor flux using L-Tune software
Luminaire efficacy	NW/CW up to 150 lm/W, WW up to 121 lm/W
Correlated Color	3000, 4000 or 5700 K
Temperature	
Color Rendering Index	>70 or 80
Lumen maintenance at median useful life*	up to L96
100000 h	
Control gear failure rate at median useful life	10%
100000 h	
Performance Ambient Temperature Tq	+25 °C
Operating temperature range	-40 to +35°C
Driver	Programmed LED drivers
Mains voltage	220-240 V / 50-60 Hz
Optic	Narrow, medium, wide or extra wide road optics: DM10, DM11, DM12, DM13, DM30, DM31, DM32, DM33, DM50, DM70, DPR1, DPL1, DS50, DW10, DW50, DX10, DX50, DX51, DX70, DN09, DN10, DN11, DN50, DRM1, DRM2, DRN1, DRN2,

Optical cover	Flat cover, glass
Material	Housing: die-cast aluminum, corrosion resistant Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum
Color	Anthracite or light grey
Connection	M20 cable gland for cable Ø 6-12 mm and for Ø 10-14 mm
Maintenance	Canopy with LED module and gear tray hinges upwards and is secured by a stainless steel locking bar (2 positions), making the LED module and gear tray safely accessible from below Safe Maintenance Technology (SMT) safety switch disconnects power on opening
Installation	Post top and side entry mounting possible (Ø 62 mm) Recommended mounting height: 4-6 m Standard tilt angle post top: 0° Adjustable tilt angle: 0-5-10° Max SCx: 0.049 m²
SR compatibility	For SR based luminaires only SR Certified components/sensors are to be used (see also: http://www.lighting.philips.co.uk/oem-emea/products/driving-connected-lighting). Functional compatibility of 2 (SR certified) components/sensors to be used in combination as well as override possibility of any lineswitch function used in a SR based luminaire, is to be released by the master component/sensor supplier. For the use of NEMA 7pin socket on a SR based luminaire a full system verification is required. Not following these advises can/will cause risk of damage and non-compliance for which Signify cannot take any responsibility. "

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Versions

Luma Micro BGP615 road-lighting luminaire, post-top version



Approval and Application

Mech. impact protection code	IK09
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General Information

CE mark	-
Optical cover/lens type	FG
Driver included	Yes
Flammability mark	NO
Light source replaceable	Yes
Number of gear units	1 unit
Product Family Code	BGP615

Initial Performance (IEC Compliant)

Init. Color Rendering Index	70
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Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Upward light output ratio	0

Mechanical and Housing

Color	Gray
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Application Conditions

Order Code	Full Product Name	Maximum dim level
37253100	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	Not applicable
37310100	BGP615 LED10-4S/740 PSU I DM10 GR 62	Not applicable
37315600	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	Programmable
37316300	BGP615 LED44-4S/740 PSU I DM70 GR 62	Not applicable
37317000	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	0% (digital)
37325500	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	Programmable
37328600	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	0% (digital)
37964600	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	Programmable
37965300	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	Programmable

Approval and Application

Order Code	Full Product Name	Surge Protection (Common/Differential)
37253100	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	Surge protection level until 10 kV
37310100	BGP615 LED10-4S/740 PSU I DM10 GR 62	Philips standard surge protection level kV
37315600	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	Philips standard surge protection level kV
37316300	BGP615 LED44-4S/740 PSU I DM70 GR 62	Philips standard surge protection level kV
37317000	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	Philips standard surge protection level kV

Order Code	Full Product Name	Surge Protection (Common/Differential)
37325500	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	Philips standard surge protection level kV
37328600	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	Philips standard surge protection level kV
37964600	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	Surge protection level until 10 kV
37965300	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	Surge protection level until 10 kV

Controls and Dimming

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Order Code	Full Product Name	Dimmable
37253100	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	No
37310100	BGP615 LED10-4S/740 PSU I DM10 GR 62	No
37315600	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	Yes
37316300	BGP615 LED44-4S/740 PSU I DM70 GR 62	No
37317000	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	Yes

Order Code	Full Product Name	Dimmable
37325500	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	Yes
37328600	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	Yes
37964600	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	No
37965300	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	No

Operating and Electrical

Order Code	Full Product Name	Driver current
37253100	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	-
37310100	BGP615 LED10-4S/740 PSU I DM10 GR 62	216 mA
37315600	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	437 mA
37316300	BGP615 LED44-4S/740 PSU I DM70 GR 62	500 mA
37317000	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	563 mA

Order Code	Full Product Name	Driver current
37325500	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	494 mA
37328600	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	630 mA
37964600	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	-
37965300	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	-

General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light	Glow-	Lamp
			source color	wire test	family code
37253100	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	157° - 33° x 55°	740 neutral white	-	LED10
37310100	BGP615 LED10-4S/740 PSU I DM10 GR 62	157° - 33° x 55°	740 neutral white	850/5	LED10
37315600	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	154° - 31° x 54°	740 neutral white	850/5	LED39
37316300	BGP615 LED44-4S/740 PSU I DM70 GR 62	154°	740 neutral white	850/5	LED44
37317000	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	154°	740 neutral white	850/5	LED49

Order Code	Full Product Name	Luminaire light beam spread	Light	Glow-	Lamp
			source color	wire test	family code
37325500	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	150° - 43° x 67°	757 cool white	850/5	LED22
37328600	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	154°	757 cool white	850/5	LED54
37964600	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	160° - 42° x 54°	740 neutral white	-	LED24
37965300	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	160° - 42° x 54°	740 neutral white	-	LED54

General Information (2/2)

Order Code	Full Product Name	Number of light sources	Optic type
37253100	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	-	Distribution medium 10
37310100	BGP615 LED10-4S/740 PSU I DM10 GR 62	12	Distribution medium 10
37315600	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	20	Distribution medium 50
37316300	BGP615 LED44-4S/740 PSU I DM70 GR 62	20	Distribution medium 70
37317000	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	20	Distribution narrow 10

Order Code	Full Product Name	Number of light sources	Optic type
37325500	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	12	Distribution extra wide 10
37328600	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	20	Distribution extra wide 70
37964600	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	-	Distribution medium 11
37965300	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	-	Distribution medium 11

Initial Performance (IEC Compliant)

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Order Code	Full Product Name	Init. Corr. Color Temperature	Initial luminous flux
37253100	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	4000 K	900 lm
37310100	BGP615 LED10-4S/740 PSU I DM10 GR 62	4000 K	900 lm
37315600	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	4000 K	3471 lm
37316300	BGP615 LED44-4S/740 PSU I DM70 GR 62	4000 K	3828 lm
37317000	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	4000 K	4459 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial luminous flux
37325500	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	5700 K	1914 lm
37328600	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	5700 K	4536 lm
37964600	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	4000 K	2184 lm
37965300	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	4000 K	4914 lm

