



# Luma – the vision is reality

## Luma Micro

Luma is a high-performance 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 uses the high-performance LEDGINE-O engine with latest LED performance and a wide range of optics to latest standards. Moreover, Luma's truly flat design prevents upward light. 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 CO<sub>2</sub> emissions
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

## Features

- LEDGINE-O engine 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

<b>Type</b>	BGP615
<b>Light source</b>	Integral LED-module
<b>Power</b>	WW: 5.6 up to 40W, NW/CW: 5.9 up to 43.5W
<b>Luminous flux</b>	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
<b>Luminaire efficacy</b>	NW/CW up to 150 lm/W, WW up to 121 lm/W
<b>Correlated Color</b>	3000, 4000 or 5700 K
<b>Temperature</b>	
<b>Color Rendering Index</b>	>70 or 80
<b>Lumen maintenance at median useful life*</b>	up to L96
<b>100000 h</b>	
<b>Control gear failure rate at median useful life</b>	10%
<b>100000 h</b>	
<b>Performance Ambient Temperature Tq</b>	+25 °C
<b>Operating temperature range</b>	-40 to +35°C
<b>Driver</b>	Programmed LED drivers
<b>Mains voltage</b>	220-240 V / 50-60 Hz
<b>Optic</b>	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,

<b>Optical cover</b>	Flat cover, glass
<b>Material</b>	Housing: die-cast aluminum, corrosion resistant Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum
<b>Color</b>	Anthracite or light grey
<b>Connection</b>	M20 cable gland for cable Ø 6-12 mm and for Ø 10-14 mm
<b>Maintenance</b>	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
<b>Installation</b>	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
<b>SR compatibility</b>	For SR based luminaires only SR Certified components/sensors are to be used (see also: <a href="http://www.lighting.philips.co.uk/oem-emea/products/driving-connected-lighting">http://www.lighting.philips.co.uk/oem-emea/products/driving-connected-lighting</a> ). 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	Flat glass
Driver included	Yes
Flammability mark	-
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
910925452126	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	Not applicable
910925452183	BGP615 LED10-4S/740 PSU I DM10 GR 62	Not applicable
910925452188	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	Programmable
910925452189	BGP615 LED44-4S/740 PSU I DM70 GR 62	Not applicable
910925452190	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	0% (digital)
910925452198	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	Programmable
910925452202	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	0% (digital)
910925863842	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	Programmable
910925863843	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	Programmable

## Approval and Application

Order Code	Full Product Name	Surge Protection (Common/Differential)
910925452126	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode
910925452183	BGP615 LED10-4S/740 PSU I DM10 GR 62	Philips standard surge protection level
910925452188	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	Philips standard surge protection level
910925452189	BGP615 LED44-4S/740 PSU I DM70 GR 62	Philips standard surge protection level
910925452190	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	Philips standard surge protection level

Order Code	Full Product Name	Surge Protection (Common/Differential)
910925452198	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	Philips standard surge protection level
910925452202	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	Philips standard surge protection level
910925863842	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode
910925863843	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode

## Controls and Dimming

Order Code	Full Product Name	Dimmable
910925452126	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	No
910925452183	BGP615 LED10-4S/740 PSU I DM10 GR 62	No
910925452188	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	Yes
910925452189	BGP615 LED44-4S/740 PSU I DM70 GR 62	No
910925452190	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	Yes

Order Code	Full Product Name	Dimmable
910925452198	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	Yes
910925452202	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	Yes
910925863842	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	No
910925863843	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	No

## Operating and Electrical

Order Code	Full Product Name	Driver current
910925452126	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	-
910925452183	BGP615 LED10-4S/740 PSU I DM10 GR 62	216 mA
910925452188	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	437 mA
910925452189	BGP615 LED44-4S/740 PSU I DM70 GR 62	500 mA
910925452190	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	563 mA

Order Code	Full Product Name	Driver current
910925452198	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	494 mA
910925452202	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	630 mA
910925863842	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	-
910925863843	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	-

## General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light source		Lamp family
			color	Glow-wire test	
910925452126	BGP615	15° - 33° x	740	-	LED10
	LED10-4S/740	55°	neutral		
	PSU I DM10 GR SRG10		white		
910925452183	BGP615	15° - 33° x	740	Temperature	LED10
	LED10-4S/740	55°	neutral	850 °C, duration	
	PSU I DM10 GR 62		white	5 s	
910925452188	BGP615	154° - 31° x	740	Temperature	LED39
	LED39-4S/740	54°	neutral	850 °C, duration	
	PSR I DM50 GR CLO D1		white	5 s	
910925452189	BGP615	154°	740	Temperature	LED44
	LED44-4S/740		neutral	850 °C, duration	
	PSU I DM70 GR 62		white	5 s	
910925452190	BGP615	154°	740	Temperature	LED49
	LED49-4S/740		neutral	850 °C, duration	
	PSD I DN10 GR D9 62		white	5 s	

Order Code	Full Product Name	Luminaire light beam spread	Light source		Lamp family
			color	Glow-wire test	
910925452198	BGP615	150° - 43° x	757 cool	Temperature	LED22
	LED22-4S/757	67°	white	850 °C, duration	
	PSR I DX10 GR CLO D1			5 s	
910925452202	BGP615	154°	757 cool	Temperature	LED54
	LED54-4S/757		white	850 °C, duration	
	PSD I DX70 GR D9 62			5 s	
910925863842	BGP615	160° - 42° x	740	-	LED24
	LED24/740 PSDD	54°	neutral		
	I DM11 GR DDF27 D1		white		
910925863843	BGP615	160° - 42° x	740	-	LED54
	LED54/740 PSDD	54°	neutral		
	I DM11 GR DDF27 D1		white		

## General Information (2/2)

Order Code	Full Product Name	Number of	
		light sources	Optic type
910925452126	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	-	Distribution medium 10
910925452183	BGP615 LED10-4S/740 PSU I DM10 GR 62	12 pcs	Distribution medium 10
910925452188	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	20 pcs	Distribution medium 50

Order Code	Full Product Name	Number of	
		light sources	Optic type
910925452189	BGP615 LED44-4S/740 PSU I DM70 GR 62	20 pcs	Distribution medium 70
910925452190	BGP615 LED49-4S/740 PSD I DN10 GR D9 62	20 pcs	Distribution narrow 10
910925452198	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	12 pcs	Distribution extra wide 10

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Order Code	Full Product Name	Number of light sources	Optic type
910925452202	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	20 pcs	Distribution extra wide 70
910925863842	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	-	Distribution medium 11

Order Code	Full Product Name	Number of light sources	Optic type
910925863843	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	-	Distribution medium 11

### Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial luminous flux
910925452126	BGP615 LED10-4S/740 PSU I DM10 GR SRG10	4000 K	900 lm
910925452183	BGP615 LED10-4S/740 PSU I DM10 GR 62	4000 K	900 lm
910925452188	BGP615 LED39-4S/740 PSR I DM50 GR CLO D1	4000 K	3471 lm
910925452189	BGP615 LED44-4S/740 PSU I DM70 GR 62	4000 K	3828 lm
910925452190	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
910925452198	BGP615 LED22-4S/757 PSR I DX10 GR CLO D1	5700 K	1914 lm
910925452202	BGP615 LED54-4S/757 PSD I DX70 GR D9 62	5700 K	4536 lm
910925863842	BGP615 LED24/740 PSDD I DM11 GR DDF27 D1	4000 K	2184 lm
910925863843	BGP615 LED54/740 PSDD I DM11 GR DDF27 D1	4000 K	4914 lm

