



# 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 the latest LED performance and a wide range of optics to the latest standards. Moreover, Luma's truly flat design prevents upward light. To optimise 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 a 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, harbours, waterways

## Specifications

<b>Type</b>	BGP615
<b>Light source</b>	Integral LED-module
<b>Power</b>	WW: 5.6 up to 40 W, NW/CW: 5.9 up to 43.5 W
<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 Colour</b>	3,000, 4,000 or 5,700 K
<b>Temperature</b>	
<b>Colour Rendering Index</b>	>70 or 80
<b>Lumen maintenance at 100,000 h</b>	up to L96
<b>Control gear failure rate at median useful life 100,000 h</b>	10%
<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 aluminium, corrosion-resistant Cover: toughened glass Gear tray: aluminium Spigot: die-cast aluminium
<b>Colour</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> ). The functional compatibility of two (SR-certified) components/sensors to be used in combination, as well as the override possibility of any line-switch function used in an SR-based luminaire, is to be released by the master component/sensor supplier. If using a NEMA 7-pin socket on an SR-based luminaire, a full system verification is required. Not following this advice can/will cause risk of damage and non-compliance for which Signify cannot take any responsibility.

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### Versions

