



Luma – the vision is reality

Luma

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	BGP621 (Mini Luma version) BGP623 (Luma 1 version) BGP625 (Luma 2 version) BGP627 (Luma 3 version)
Light source	Built-in LED-module
Power	BGP621: 10 to 90 W depending on configuration BGP623: 15 to 180 W depending on configuration BGP625: 40 to 270 W depending on configuration BGP627: 68 to 446 W depending on configuration
Luminous flux	BGP621: 850 to 11,100 lm depending on configuration BGP623: 1,400 to 22,150 lm depending on configuration BGP625: 4,200 to 32,950 lm depending on configuration BGP627: 6,950 to 54,400 lm depending on configuration

Luminaire efficacy	Up to 124 lm/W
Correlated Color	5700 K (CW), 4000 K (NW) or 3000 K (WW)
Temperature	
Color Rendering Index	70 (for CW, NW) 80 (for WW)
Maintenance of lumen output - L80F10	Up to 100,000 hours at 25 °C
Operating temperature range	-20 to +35 °C

Specifications

Driver	Programmed LED drivers
Mains voltage	220-240 V / 50-60 Hz
Dimming	1-10 V or stand alone DynaDimmer DALI
Options	Wired for cell (WFC), mini Photocell or NEMA socket Including cable
Optic	OPTIFLUX™ lenses Narrow, medium, wide or extra wide road optic
Optical cover	Flat cover, glass
Material	Housing: die-cast aluminum, non corrosive Cover: toughened glass Gear tray: aluminum Spigot: die-cast aluminum
Color	Antracite or light grey Other RAL or AKZO Futura colors or duo colors available on request

Connection	M20 cable gland with strain relief, for cable 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	BGP621/623: post top / side entry mounting Ø 32-60 mm BGP625/627: post top / side entry mounting Ø 42-62 mm Recommended mounting height: 6-18 m Standard tilt angle post top: 0° Adjustable tilt angle: 0-5-10° Max SCx: 0.055 m (BGP621), 0.057 m (BGP623), 0.067 m (BGP625), 0.079 m
Accessories	Dedicated spigot for post top Ø 76 mm

Luma

Versions



Application Conditions

Maximum dim level	Not applicable
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Approval and Application

Mech. impact protection code	IK09
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Controls and Dimming

Dimmable	No
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General Information

CE mark	CE mark
Light source colour	740 neutral white
Optical cover/lens type	AC-MLO
Driver included	Yes
Flammability mark	NO
Light source replaceable	Yes
Number of gear units	1 unit

Initial Performance (IEC Compliant)

Init. Corr. Colour Temperature	4000 K
Init. Colour Rendering Index	≥70

Light Technical

Upward light output ratio	0
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Mechanical and Housing

Colour	Gray
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Approval and Application

Order Code	Full Product Name	Surge Protection (Common/Differential)
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	Surge protection level until 10 kV
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	Surge protection level until 10 kV
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV

General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Luminaire	Lamp	Lamp version
			fixation bolts	family code	
11592000	BGP623	78° - 14° x 156°	Length 30 mm	LED220	4S
	LED220-4S/740 I				
	DM11 GR DDF27 SRG				
11596800	BGP627	78° - 14° x 156°	Length 30 mm	LED550	4S
	LED550-4S/740 I				
	DM11 GR DDF27 SRG				

Order Code	Full Product Name	Luminaire light beam spread	Luminaire	Lamp	Lamp version
			fixation bolts	family code	
45994900	BGP627	20° - 4° x 150°	-	LED400	-
	LED400-4S/740				
	PSU II DX10 GR CLO				

General Information (2/2)

Order Code	Full Product Name	Number of light sources		Product Family Code
		Optic type	medium 11	
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	80	Distribution medium 11	BGP623
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	200	Distribution medium 11	BGP627

Order Code	Full Product Name	Number of light sources		Product Family Code
		Optic type	wide 10	
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	-	Distribution extra-wide 10	BGP627

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial luminous flux
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	19580 lm
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	49280 lm

Order Code	Full Product Name	Initial luminous flux
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	34000 lm

Light Technical

Order Code	Full Product Name	Standard tilt	
		angle side entry	angle posttop
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	0°	-
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	0°	-

Order Code	Full Product Name	Standard tilt	
		angle side entry	angle posttop
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	-	0°

