



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)	Lumen maintenance at median useful life*	BGP621: up to L96 BGP623: up to L95 BGP625: up to L95 BGP627: up to L95
Light source	Built-in LED-module	100000 h	
Power	BGP621: WW: 29 up to 84W, NW/CW: 21 up to 83W BGP623: WW: 44.5 up to 154 W, NW/CW: 36 up to 148 W BGP625: WW: 95 up to 250 W, NW/CW: 76 up to 250 W BGP627: WW: 138 up to 385 W, NW/CW: 110 up to 405 W	Control gear failure rate at median useful life	10%
Luminous flux	BGP621: Neutral and Cool white: nominal: 3500 to 13000 lm system: 3000 to 11800 lm Warm white: nominal: 3500 to 9400 lm system: 3000 to 8500 lm BGP623: Neutral and Cool white: nominal: 6000 to 24,000 lm system: 5300 to 21,600 lm Warm white: nominal: 6000 to 20,000 lm system: 5300 to 18,000 lm BGP625: Neutral and Cool white: nominal: 13,000 to 39,900 lm system: 11,500 to 36,000 lm Warm white: nominal: 13,000 to 32,000 lm system: 11,600 to 28,800 lm BGP627: Neutral and Cool white: nominal: 18,900 to 65,000 lm system: 17,000 to 58,700 lm Warm white: nominal: 18,900 to 50,000 lm system: 16,700 to 45,000 lm Or tailor flux using L-Tune software	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
		Dimming	stand alone DynaDimmer DALI
		Options	Wired for cell (WFC), mini Photocell or NEMA socket Including cable
		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,
		Optical cover	Flat cover, glass
		Material	Housing: die-cast aluminum, non corrosive Cover: tempered 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 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
Luminaire efficacy	BGP621: NW/CW up to 155 lm/W, WW up to 112 lm/W BGP623: NW/CW up to 158 lm/W, WW up to 125 lm/W BGP625: NW/CW up to 159 lm/W, WW up to 126 lm/W BGP627: NW/CW up to 159 lm/W, WW up to 125 lm/W	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°
Correlated Color Temperature	3000, 4000 or 5700 K		Max SCx: 0.055 m² (BGP621), 0.057 m² (BGP623), 0.066 m², (BGP625), 0.077 m² (BGP627)
Color Rendering Index	>70 (for CW, NW) >80 (for WW)	Accessories	Dedicated spigot for post top Ø 76 mm

Luma

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. "

Versions



LUMA MINI - LED module 5900 lm
- 740 neutral white - Power supply unit with DynaDimmer - Safety class I - Distribution medium 11 - Acrylate micro-lens optic - Gray - DynaDimmer with fixed presets version 27 - Dimming via DynaDimmer integrated in ballast or driver - Luminaire surge protection level until 10 kV differential mode and 10 kV common mode - - - Side-entry for diameter 62 mm



Luma 1 BGP623 pedestrian luminaire



Luma 2 BGP625 pedestrian luminaire



Luma 3 BGP627 pedestrian luminaire

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 color	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. Color Temperature	4000 K
Init. Color Rendering Index	≥70

Light Technical

Upward light output ratio	0
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Mechanical and Housing

Color	Gray
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Approval and Application

Order Code	Full Product Name	Surge Protection (Common/Differential)
11589000	BGP621 LED59-4S/740 I DM11 GR DDF27 SRG	Surge protection level until 10 kV
11591300	BGP623 LED110-4S/740 I DM11 GR DDF27 SRG	Surge protection level until 10 kV
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	Surge protection level until 10 kV
45985700	BGP623 60xLED139-4S/740 PSU II DX10 AL G	Philips standard surge protection level kV
45986400	BGP623 60xLED139-4S/740 PSU II DX10 AL G	Philips standard surge protection level kV
45987100	BGP623 80xLED200-4S/740 PSU II DX10 AL G	Philips standard surge protection level kV
45988800	BGP623 80xLED200-4S/740 PSU II DX10 AL G	Philips standard surge protection level kV
47321100	BGP623 40xLED60-4S/740 PSU I DM10 AL GR	Philips standard surge protection level kV
11593700	BGP625 LED240-4S/740 I DM11 GR DDF27 SRG	Surge protection level until 10 kV
11594400	BGP625 LED340-4S/740 I DM11 GR DDF27 SRG	Surge protection level until 10 kV
45989500	BGP625 LED240-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
45990100	BGP625 LED240-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
45991800	BGP625 LED340-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
45992500	BGP625 LED340-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
47322800	BGP625 80xLED130-4S/740 PSU I DM10 AL GR	Philips standard surge protection level kV
11595100	BGP627 LED400-4S/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
45993200	BGP627 LED400-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
45995600	BGP627 LED550-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
45996300	BGP627 LED550-4S/740 PSU II DX10 GR CLO	Philips standard surge protection level kV
47323500	BGP627 120xLED189-4S/740 PSU I DM10 AL G	Philips standard surge protection level kV

General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Luminaire fixation bolts	Lamp family code	Lamp version
11589000	BGP621 LED59-4S/740 I DM11 GR DDF27 SRG	78° - 14° x 156°	-	LED59	-
11591300	BGP623 LED110-4S/740 I DM11 GR DDF27 SRG	78° - 14° x 156°	Length 30 mm	LED110	4S
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	78° - 14° x 156°	Length 30 mm	LED220	4S
45985700	BGP623 60xLED139-4S/740 PSU II DX10 AL G	20° - 4° x 150°	Length 30 mm	LED139	4S
45986400	BGP623 60xLED139-4S/740 PSU II DX10 AL G	20° - 4° x 150°	Length 16 mm	LED139	4S
45987100	BGP623 80xLED200-4S/740 PSU II DX10 AL G	20° - 4° x 150°	Length 30 mm	LED200	4S
45988800	BGP623 80xLED200-4S/740 PSU II DX10 AL G	20° - 4° x 150°	Length 16 mm	LED200	4S

Order Code	Full Product Name	Luminaire light beam spread	Luminaire fixation bolts	Lamp family code	Lamp version
47321100	BGP623 40xLED60-4S/740 PSU I DM10 AL GR	77° - 11° x 156°	Length 30 mm with extra bolts	LED60	4S
11593700	BGP625 LED240-4S/740 I DM11 GR DDF27 SRG	78° - 14° x 156°	Length 30 mm	LED240	4S
11594400	BGP625 LED340-4S/740 I DM11 GR DDF27 SRG	78° - 14° x 156°	Length 30 mm	LED340	4S
45989500	BGP625 LED240-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED240	-
45990100	BGP625 LED240-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED240	-
45991800	BGP625 LED340-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED340	-

Order Code	Full Product Name	Luminaire light beam spread	Luminaire fixation bolts	Lamp family code	Lamp version
45992500	BGP625 LED340-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED340	-
47322800	BGP625 80xLED130-4S/740 PSU I DM10 AL GR	77° - 11° x 156°	Length 30 mm	LED130	4S
11595100	BGP627 LED400-4S/740 I DM11 GR DDF27 SRG	78° - 14° x 156°	Length 30 mm	LED400	4S
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	78° - 14° x 156°	Length 30 mm	LED550	4S
45993200	BGP627 LED400-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED400	-

Order Code	Full Product Name	Luminaire light beam spread	Luminaire fixation bolts	Lamp family code	Lamp version
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED400	-
45995600	BGP627 LED550-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED550	-
45996300	BGP627 LED550-4S/740 PSU II DX10 GR CLO	20° - 4° x 150°	-	LED550	-
47323500	BGP627 120xLED189-4S/740 PSU I DM10 AL G	77° - 11° x 156°	Length 30 mm	LED189	4S

General Information (2/2)

Order Code	Full Product Name	Number of light sources	Optic type	Product Family Code
11589000	BGP621 LED59-4S/740 I DM11 GR DDF27 SRG	-	Distribution medium 11	BGP621
11591300	BGP623 LED110-4S/740 I DM11 GR DDF27 SRG	60	Distribution medium 11	BGP623
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	80	Distribution medium 11	BGP623
45985700	BGP623 60xLED139-4S/740 PSU II DX10 AL G	60	Distribution extra wide 10	BGP623
45986400	BGP623 60xLED139-4S/740 PSU II DX10 AL G	60	Distribution extra wide 10	BGP623
45987100	BGP623 80xLED200-4S/740 PSU II DX10 AL G	80	Distribution extra wide 10	BGP623
45988800	BGP623 80xLED200-4S/740 PSU II DX10 AL G	80	Distribution extra wide 10	BGP623
47321100	BGP623 40xLED60-4S/740 PSU I DM10 AL GR	40	Distribution medium 10	BGP623
11593700	BGP625 LED240-4S/740 I DM11 GR DDF27 SRG	120	Distribution medium 11	BGP625
11594400	BGP625 LED340-4S/740 I DM11 GR DDF27 SRG	120	Distribution medium 11	BGP625
45989500	BGP625 LED240-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP625

Order Code	Full Product Name	Number of light sources	Optic type	Product Family Code
45990100	BGP625 LED240-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP625
45991800	BGP625 LED340-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP625
45992500	BGP625 LED340-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP625
47322800	BGP625 80xLED130-4S/740 PSU I DM10 AL GR	80	Distribution medium 10	BGP625
11595100	BGP627 LED400-4S/740 I DM11 GR DDF27 SRG	140	Distribution medium 11	BGP627
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	200	Distribution medium 11	BGP627
45993200	BGP627 LED400-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP627
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP627
45995600	BGP627 LED550-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP627
45996300	BGP627 LED550-4S/740 PSU II DX10 GR CLO	-	Distribution extra wide 10	BGP627
47323500	BGP627 120xLED189-4S/740 PSU I DM10 AL G	120	Distribution medium 10	BGP627

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial luminous flux
11589000	BGP621 LED59-4S/740 I DM11 GR DDF27 SRG	5460 lm
11591300	BGP623 LED110-4S/740 I DM11 GR DDF27 SRG	10010 lm

Order Code	Full Product Name	Initial luminous flux
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	19580 lm
45985700	BGP623 60xLED139-4S/740 PSU II DX10 AL G	12040 lm

Order Code	Full Product Name	Initial luminous flux
45986400	BGP623 60xLED139-4S/740 PSU II DX10 AL G	12040 lm
45987100	BGP623 80xLED200-4S/740 PSU II DX10 AL G	17000 lm
45988800	BGP623 80xLED200-4S/740 PSU II DX10 AL G	17000 lm
47321100	BGP623 40xLED60-4S/740 PSU I DM10 AL GR	5400 lm
11593700	BGP625 LED240-4S/740 I DM11 GR DDF27 SRG	21600 lm
11594400	BGP625 LED340-4S/740 I DM11 GR DDF27 SRG	30260 lm
45989500	BGP625 LED240-4S/740 PSU II DX10 GR CLO	20640 lm
45990100	BGP625 LED240-4S/740 PSU II DX10 GR CLO	20640 lm
45991800	BGP625 LED340-4S/740 PSU II DX10 GR CLO	28900 lm

Order Code	Full Product Name	Initial luminous flux
45992500	BGP625 LED340-4S/740 PSU II DX10 GR CLO	28900 lm
47322800	BGP625 80xLED130-4S/740 PSU I DM10 AL GR	11700 lm
11595100	BGP627 LED400-4S/740 I DM11 GR DDF27 SRG	35600 lm
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	49280 lm
45993200	BGP627 LED400-4S/740 PSU II DX10 GR CLO	34000 lm
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	34000 lm
45995600	BGP627 LED550-4S/740 PSU II DX10 GR CLO	47040 lm
45996300	BGP627 LED550-4S/740 PSU II DX10 GR CLO	47040 lm
47323500	BGP627 120xLED189-4S/740 PSU I DM10 AL G	17100 lm

Light Technical

Order Code	Full Product Name	Standard tilt angle side entry	Standard tilt angle posttop
11589000	BGP621 LED59-4S/740 I DM11 GR DDF27 SRG	0°	-
11591300	BGP623 LED110-4S/740 I DM11 GR DDF27 SRG	-	0°
11592000	BGP623 LED220-4S/740 I DM11 GR DDF27 SRG	0°	-
45985700	BGP623 60xLED139-4S/740 PSU II DX10 AL G	5°	-
45986400	BGP623 60xLED139-4S/740 PSU II DX10 AL G	-	5°
45987100	BGP623 80xLED200-4S/740 PSU II DX10 AL G	5°	-
45988800	BGP623 80xLED200-4S/740 PSU II DX10 AL G	-	5°
47321100	BGP623 40xLED60-4S/740 PSU I DM10 AL GR	0°	-
11593700	BGP625 LED240-4S/740 I DM11 GR DDF27 SRG	0°	-
11594400	BGP625 LED340-4S/740 I DM11 GR DDF27 SRG	0°	-
45989500	BGP625 LED240-4S/740 PSU II DX10 GR CLO	0°	-

Order Code	Full Product Name	Standard tilt angle side entry	Standard tilt angle posttop
45990100	BGP625 LED240-4S/740 PSU II DX10 GR CLO	-	-
45991800	BGP625 LED340-4S/740 PSU II DX10 GR CLO	0°	-
45992500	BGP625 LED340-4S/740 PSU II DX10 GR CLO	0°	-
47322800	BGP625 80xLED130-4S/740 PSU I DM10 AL GR	0°	-
11595100	BGP627 LED400-4S/740 I DM11 GR DDF27 SRG	0°	-
11596800	BGP627 LED550-4S/740 I DM11 GR DDF27 SRG	0°	-
45993200	BGP627 LED400-4S/740 PSU II DX10 GR CLO	0°	-
45994900	BGP627 LED400-4S/740 PSU II DX10 GR CLO	-	0°
45995600	BGP627 LED550-4S/740 PSU II DX10 GR CLO	0°	-
45996300	BGP627 LED550-4S/740 PSU II DX10 GR CLO	-	-
47323500	BGP627 120xLED189-4S/740 PSU I DM10 AL G	0°	-

