



# Stela+ gen2 – the revolution continues

## Stela+ gen2 Long, Square & Wide

In 2008 the arrival of the Stela family heralded a revolution in street lighting. In Stela + gen2 we are now presenting the next generation of LEDs and introducing programmable drivers. The REVOLED cooling and light distribution concept enables tremendous energy savings and a corresponding reduction in CO2 emissions, whilst meeting current lighting standards. Excellent thermal management of the LEDs ensures a very long lifetime, eliminating the need for lamp replacement. Higher flux per LED, flux tuning (using L-Tune) and the option of employing Constant Light Output (CLO) make it possible either to reduce the number of LEDs needed (lower cost per light point) or, when using the same number of LEDs as before, to reduce the power consumption (lower Total Cost of Ownership).

### Benefits

- REVOLED technology for maximum efficiency
- Fit-and-forget solution – operates at low current
- Choice of lens optics to match street geometries
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

### Features

- Guaranteed long lifetime: up to 100,000 hours (L-Tune tool)
- Very attractive Total Cost of Ownership, ensuring sustainable investment
- Low energy consumption and small carbon footprint
- Easy installation and maintenance

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## Application

- Traffic routes: inter-urban main roads, roundabouts, cycle paths, pedestrian crossings, parking areas
- Residential: streets, cycle paths & footpaths, roundabouts, pedestrian crossings, squares/parks and playgrounds, parking areas
- City centers: boulevards and avenues, side streets, squares and parks, pedestrian and shopping areas, pedestrian crossings, public transport, cycle paths and footpaths, parking areas
- Large outdoor areas: industrial sites, harbors, airports, waterways, rail yards

## Specifications

<b>Type</b>	BPP612 (Wide version) BPP614 (Square version) BPP616 (Long version)
<b>Light source</b>	Integral LED-module
<b>Power (+/-10%)</b>	BPP 612: 18-119 W BPP 614: 8-43 W BPP 616: 8-72 W
<b>Luminous flux</b>	BPP 612: 1750-13,250 lm BPP 614: 750-4650 lm BPP 616: 750-7700 lm
<b>Luminaire efficacy</b>	BPP 612: 91-125 lm/W BPP 614: 90-119 lm/W BPP 616: 90-119 lm/W
<b>Correlated Color Temperature</b>	3000, 4000 or 5700 K
<b>Color Rendering Index</b>	Cool white: 70 Neutral white: 75 Warm white: 80
<b>Lumen maintenance at median useful life*</b>	min L80 100000 h

<b>Control gear failure rate at median useful life</b>	10% 100000 h
<b>Performance Ambient Temperature Tq</b>	+25 °C
<b>Operating temperature range</b>	-20 to +35 °C
<b>Driver</b>	Integrated programmable driver
<b>Mains voltage</b>	220-240 V / 50-60 Hz
<b>Inrush current</b>	40 W: 65 A at 100 ms 75 W: 80 A at 150 ms 100 W: 80 A at 150 ms 150 W: 118 A at 140 ms
<b>Dimming</b>	Dimmable versions available with: 1-10V / DALI / DynaDimmer / SDU

## Specifications

<b>Options</b>	Including cable Class II version Wired for cell, Mini Photocell or NEMA socket Constant light output (CLO) 10 kV surge protection
<b>Optic</b>	Wide road optic for S-class (WRN) Standard road optic for S-class (SRN) Narrow road optic for S-class (NRN) Standard road optic for ME-class (MRN) (not for Stela Long). Distribution pedestrian crossing left (DP-L) Distribution pedestrian crossing right (DP-R)
<b>Optical cover</b>	Micro lens optic
<b>Material</b>	Housing: die-cast aluminum LM6-quality, non corrosive Spigot: die-cast aluminum LM6-quality Lens: PMMA
<b>Color</b>	Grey (Futura Gris 900 Sablé) Other RAL or AKZO Futura colors available on request

<b>Connection</b>	Screw connection block
<b>Maintenance</b>	Easy driver maintenance
<b>Installation</b>	Post-top mounting: axial entry Ø 60 - 76 mm Side-entry mounting: lateral entry Ø 32 - 60 mm (long version only) Recommended mounting height: 4-6 m (square version), 5-8 m (wide and long version) Standard tilt angle post top (square and wide versions only): +10° Adjustable tilt angle (long version only): +5 and +10° (post top), 0, +5, +10, +15 and +20° (side entry) Windage area: 0.04m² (square), 0.05m² (long), 0.06m² (wide)
<b>Cable gland</b>	M20
<b>Accessories</b>	Adapter for pole mounting Dedicated Next range mast and wall brackets available for different mounting possibilities

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## Versions



**STELA-SQUARE GEN2 - LED**  
 module 1800 lm - LED - 740  
 neutral white - Power supply unit -  
 220-240 V - 50 to 60 Hz - Safety  
 class I - Standard road optic for S-  
 class - Polymethyl methacrylate  
 bowl/cover - Gray - Philips  
 standard surge protection level - -  
 - Spigot for diameter 60 mm



**STELA-WIDE GEN2 - LED module**  
 7000 lm - LED - 740 neutral white  
 - Power supply unit with DALI  
 interface - 220-240 V - 50 to 60  
 Hz - Safety class I - Standard road  
 optic for S-class - Polymethyl  
 methacrylate bowl/cover - Gray -  
 Luminaire surge protection level  
 until 10 kV differential mode and  
 10 kV common mode - - - Spigot  
 for diameter 60 to 76 mm



**STELA-LONG GEN2 - LED Module**  
 1200 lm - LED - 740 neutral white  
 - Power supply unit - 220-240 V -  
 50 to 60 Hz - Safety class I -  
 Standard road optic for S-class -  
 Polymethyl methacrylate bowl/  
 cover - Gray - Philips standard  
 surge protection level - - - Spigot  
 for diameter 76 mm



**STELA-LONG GEN2 - LED Module**  
 1200 lm - LED - 740 neutral white  
 - Power supply unit - 220-240 V -  
 50 to 60 Hz - Safety class I -  
 Standard road optic for S-class -  
 Polymethyl methacrylate bowl/  
 cover - Gray - Philips standard  
 surge protection level - - - Side-  
 entry for diameter 32 to 60 mm

### Approval and Application

Mech. impact protection code IK10

### General Information

CE mark CE mark  
 Optical cover/lens type Polymethyl  
 methacrylate  
 bowl/cover  
 Driver included Yes  
 Flammability mark -  
 Light source replaceable No  
 Number of gear units 1 unit

### Light Technical

Upward light output ratio 0.5

### Mechanical and Housing

Color Gray

### Application Conditions

Order Code	Full Product Name	Maximum dim level
912300024539	BPP614 LED18/740 PSU SRN CLO 60P	-
912300024540	BPP614 LED23/740 PSU SRN CLO 60P	-
912300024542	BPP614 LED27/740 PSD SRN D9 SRG10 60/76P	25%
912300024799	BPP614 LED43-3S/830 PSU II MRN GR 60/76	-
912300024801	BPP614 LED43-3S/830 PSU II SRN GR 60/76	-
912300024543	BPP612 LED70/740 PSD SRN D9 SRG10 60/76P	25%
912300024545	BPP612 LED60/740 PSU SRN CLO 76P	-
912300024546	BPP612 LED40/740 PSU SRN CLO 60P	-
912300024547	BPP612 LED60/740 PSU SRN CLO 60P	-
912300024802	BPP612 LED100-3S/830 PSU II MRN GR 60/76	-
912300024803	BPP612 LED70-3S/830 PSU II SRN GR 60/76	-
912300024548	BPP616 LED12/740 PSU SRN CLO 76P	-
912300024549	BPP616 LED18/740 PSU SRN CLO 76P	-
912300024550	BPP616 LED30/740 PSU SRN CLO 76P	-
912300024551	BPP616 LED12/740 PSU SRN CLO 60P	-
912300024552	BPP616 LED18/740 PSU SRN CLO 60P	-
912300024553	BPP616 LED30/740 PSU SRN CLO 60P	-
912300024554	BPP616 LED12/740 PSU SRN CLO 32/60S	-
912300024555	BPP616 LED18/740 PSU SRN CLO 32/60S	-
912300024556	BPP616 LED12/740 PSD SRN D9 SRG10 60S	25%

## Approval and Application

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Order Code	Full Product Name	Surge Protection (Common/Differential)
912300024539	BPP614 LED18/740 PSU SRN CLO 60P	Philips standard surge protection level
912300024540	BPP614 LED23/740 PSU SRN CLO 60P	Philips standard surge protection level
912300024542	BPP614 LED27/740 PSD SRN D9 SRG10 60/76P	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode
912300024799	BPP614 LED43-3S/830 PSU II MRN GR 60/76	Philips standard surge protection level
912300024801	BPP614 LED43-3S/830 PSU II SRN GR 60/76	Philips standard surge protection level
912300024543	BPP612 LED70/740 PSD SRN D9 SRG10 60/76P	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode
912300024545	BPP612 LED60/740 PSU SRN CLO 76P	Philips standard surge protection level
912300024546	BPP612 LED40/740 PSU SRN CLO 60P	Philips standard surge protection level
912300024547	BPP612 LED60/740 PSU SRN CLO 60P	Philips standard surge protection level
912300024802	BPP612 LED100-3S/830 PSU II MRN GR 60/76	Philips standard surge protection level

Order Code	Full Product Name	Surge Protection (Common/Differential)
912300024803	BPP612 LED70-3S/830 PSU II SRN GR 60/76	Philips standard surge protection level
912300024548	BPP616 LED12/740 PSU SRN CLO 76P	Philips standard surge protection level
912300024549	BPP616 LED18/740 PSU SRN CLO 76P	Philips standard surge protection level
912300024550	BPP616 LED30/740 PSU SRN CLO 76P	Philips standard surge protection level
912300024551	BPP616 LED12/740 PSU SRN CLO 60P	Philips standard surge protection level
912300024552	BPP616 LED18/740 PSU SRN CLO 60P	Philips standard surge protection level
912300024553	BPP616 LED30/740 PSU SRN CLO 60P	Philips standard surge protection level
912300024554	BPP616 LED12/740 PSU SRN CLO 32/60S	Philips standard surge protection level
912300024555	BPP616 LED18/740 PSU SRN CLO 32/60S	Philips standard surge protection level
912300024556	BPP616 LED12/740 PSD SRN D9 SRG10 60S	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode

### Controls and Dimming

Order Code	Full Product Name	Dimmable
912300024539	BPP614 LED18/740 PSU SRN CLO 60P	No
912300024540	BPP614 LED23/740 PSU SRN CLO 60P	No
912300024542	BPP614 LED27/740 PSD SRN D9 SRG10 60/76P	Yes
912300024799	BPP614 LED43-3S/830 PSU II MRN GR 60/76	No
912300024801	BPP614 LED43-3S/830 PSU II SRN GR 60/76	No
912300024543	BPP612 LED70/740 PSD SRN D9 SRG10 60/76P	Yes
912300024545	BPP612 LED60/740 PSU SRN CLO 76P	No
912300024546	BPP612 LED40/740 PSU SRN CLO 60P	No
912300024547	BPP612 LED60/740 PSU SRN CLO 60P	No
912300024802	BPP612 LED100-3S/830 PSU II MRN GR 60/76	No

Order Code	Full Product Name	Dimmable
912300024803	BPP612 LED70-3S/830 PSU II SRN GR 60/76	No
912300024548	BPP616 LED12/740 PSU SRN CLO 76P	No
912300024549	BPP616 LED18/740 PSU SRN CLO 76P	No
912300024550	BPP616 LED30/740 PSU SRN CLO 76P	No
912300024551	BPP616 LED12/740 PSU SRN CLO 60P	No
912300024552	BPP616 LED18/740 PSU SRN CLO 60P	No
912300024553	BPP616 LED30/740 PSU SRN CLO 60P	No
912300024554	BPP616 LED12/740 PSU SRN CLO 32/60S	No
912300024555	BPP616 LED18/740 PSU SRN CLO 32/60S	No
912300024556	BPP616 LED12/740 PSD SRN D9 SRG10 60S	Yes

### General Information (1/2)

Order Code	Full Product Name	Luminaire	Light	Lamp	Lamp version
		light beam spread	source color	family code	
912300024539	BPP614 LED18/740 PSU SRN CLO 60P	96° x 151°	740 neutral white	LED18	-
912300024540	BPP614 LED23/740 PSU SRN CLO 60P	96° x 151°	740 neutral white	LED23	-
912300024542	BPP614 LED27/740 PSD SRN D9 SRG10 60/76P	96° x 151°	740 neutral white	LED27	-

Order Code	Full Product Name	Luminaire	Light	Lamp	Lamp version
		light beam spread	source color	family code	
912300024799	BPP614 LED43-3S/830 PSU II MRN GR 60/76	99° x 156°	830 warm white	LED43	3S
912300024801	BPP614 LED43-3S/830 PSU II SRN GR 60/76	96° x 151°	830 warm white	LED43	3S

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Order Code	Full Product Name	Luminaire light beam spread	Light source color	Lamp family code	Lamp version
912300024543	BPP612 LED70/740 PSD SRN D9 SRG10 60/76P	96° x 151°	740 neutral white	LED70	-
912300024545	BPP612 LED60/740 PSU SRN CLO 76P	96° x 151°	740 neutral white	LED60	-
912300024546	BPP612 LED40/740 PSU SRN CLO 60P	96° x 151°	740 neutral white	LED40	-
912300024547	BPP612 LED60/740 PSU SRN CLO 60P	96° x 151°	740 neutral white	LED60	-
912300024802	BPP612 LED100-3S/830 PSU II MRN GR 60/76	99° x 156°	830 warm white	LED100	3S
912300024803	BPP612 LED70-3S/830 PSU II SRN GR 60/76	96° x 151°	830 warm white	LED70	3S
912300024548	BPP616 LED12/740 PSU SRN CLO 76P	96° x 151°	740 neutral white	LED12	-
912300024549	BPP616 LED18/740 PSU SRN CLO 76P	96° x 151°	740 neutral white	LED18	-

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Lamp family code	Lamp version
912300024550	BPP616 LED30/740 PSU SRN CLO 76P	96° x 151°	740 neutral white	LED30	-
912300024551	BPP616 LED12/740 PSU SRN CLO 60P	96° x 151°	740 neutral white	LED12	-
912300024552	BPP616 LED18/740 PSU SRN CLO 60P	96° x 151°	740 neutral white	LED18	-
912300024553	BPP616 LED30/740 PSU SRN CLO 60P	96° x 151°	740 neutral white	LED30	-
912300024554	BPP616 LED12/740 PSU SRN CLO 32/60S	96° x 151°	740 neutral white	LED12	-
912300024555	BPP616 LED18/740 PSU SRN CLO 32/60S	96° x 151°	740 neutral white	LED18	-
912300024556	BPP616 LED12/740 PSD SRN D9 SRG10 60S	96° x 151°	740 neutral white	LED12	-

### General Information (2/2)

Order Code	Full Product Name	Optic type	Product Family Code
912300024539	BPP614 LED18/740 PSU SRN CLO 60P	Standard road optic for S- class	BPP614
912300024540	BPP614 LED23/740 PSU SRN CLO 60P	Standard road optic for S- class	BPP614
912300024542	BPP614 LED27/740 PSD SRN D9 SRG10 60/76P	Standard road optic for S- class	BPP614
912300024799	BPP614 LED43-3S/830 PSU II MRN GR 60/76	Standard road optic for ME-class	BPP614
912300024801	BPP614 LED43-3S/830 PSU II SRN GR 60/76	Standard road optic for S- class	BPP614
912300024543	BPP612 LED70/740 PSD SRN D9 SRG10 60/76P	Standard road optic for S- class	BPP612
912300024545	BPP612 LED60/740 PSU SRN CLO 76P	Standard road optic for S- class	BPP612
912300024546	BPP612 LED40/740 PSU SRN CLO 60P	Standard road optic for S- class	BPP612
912300024547	BPP612 LED60/740 PSU SRN CLO 60P	Standard road optic for S- class	BPP612
912300024802	BPP612 LED100-3S/830 PSU II MRN GR 60/76	Standard road optic for ME-class	BPP612

Order Code	Full Product Name	Optic type	Product Family Code
912300024803	BPP612 LED70-3S/830 PSU II SRN GR 60/76	Standard road optic for S- class	BPP612
912300024548	BPP616 LED12/740 PSU SRN CLO 76P	Standard road optic for S- class	BPP616
912300024549	BPP616 LED18/740 PSU SRN CLO 76P	Standard road optic for S- class	BPP616
912300024550	BPP616 LED30/740 PSU SRN CLO 76P	Standard road optic for S- class	BPP616
912300024551	BPP616 LED12/740 PSU SRN CLO 60P	Standard road optic for S- class	BPP616
912300024552	BPP616 LED18/740 PSU SRN CLO 60P	Standard road optic for S- class	BPP616
912300024553	BPP616 LED30/740 PSU SRN CLO 60P	Standard road optic for S- class	BPP616
912300024554	BPP616 LED12/740 PSU SRN CLO 32/60S	Standard road optic for S- class	BPP616
912300024555	BPP616 LED18/740 PSU SRN CLO 32/60S	Standard road optic for S- class	BPP616
912300024556	BPP616 LED12/740 PSD SRN D9 SRG10 60S	Standard road optic for S- class	BPP616

### Initial Performance (IEC Compliant)

## Stela+ gen2 Long, Square & Wide

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300024539	BPP614 LED18/740 PSU SRN CLO 60P	4000 K	≥70	1593 lm
912300024540	BPP614 LED23/740 PSU SRN CLO 60P	4000 K	≥70	2070 lm
912300024542	BPP614 LED27/740 PSD SRN D9 SRG10 60/76P	4000 K	≥70	2457 lm
912300024799	BPP614 LED43-3S/830 PSU II MRN GR 60/76	3000 K	≥80	3483 lm
912300024801	BPP614 LED43-3S/830 PSU II SRN GR 60/76	3000 K	≥80	3741 lm
912300024543	BPP612 LED70/740 PSD SRN D9 SRG10 60/76P	4000 K	≥70	6160 lm
912300024545	BPP612 LED60/740 PSU SRN CLO 76P	4000 K	≥70	5340 lm
912300024546	BPP612 LED40/740 PSU SRN CLO 60P	4000 K	≥70	3471 lm
912300024547	BPP612 LED60/740 PSU SRN CLO 60P	4000 K	≥70	5340 lm
912300024802	BPP612 LED100-3S/830 PSU II MRN GR 60/76	3000 K	≥80	8100 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300024803	BPP612 LED70-3S/830 PSU II SRN GR 60/76	3000 K	≥80	6160 lm
912300024548	BPP616 LED12/740 PSU SRN CLO 76P	4000 K	≥70	1080 lm
912300024549	BPP616 LED18/740 PSU SRN CLO 76P	4000 K	≥70	1558 lm
912300024550	BPP616 LED30/740 PSU SRN CLO 76P	4000 K	≥70	2581 lm
912300024551	BPP616 LED12/740 PSU SRN CLO 60P	4000 K	≥70	1080 lm
912300024552	BPP616 LED18/740 PSU SRN CLO 60P	4000 K	≥70	1558 lm
912300024553	BPP616 LED30/740 PSU SRN CLO 60P	4000 K	≥70	2581 lm
912300024554	BPP616 LED12/740 PSU SRN CLO 32/60S	4000 K	≥70	1080 lm
912300024555	BPP616 LED18/740 PSU SRN CLO 32/60S	4000 K	≥70	1558 lm
912300024556	BPP616 LED12/740 PSD SRN D9 SRG10 60S	4000 K	≥70	1080 lm

### Light Technical

Order Code	Full Product Name	Standard tilt angle side entry	Standard tilt angle posttop
912300024539	BPP614 LED18/740 PSU SRN CLO 60P	-	0°
912300024540	BPP614 LED23/740 PSU SRN CLO 60P	-	0°
912300024542	BPP614 LED27/740 PSD SRN D9 SRG10 60/76P	-	0°
912300024799	BPP614 LED43-3S/830 PSU II MRN GR 60/76	-	0°
912300024801	BPP614 LED43-3S/830 PSU II SRN GR 60/76	-	0°
912300024543	BPP612 LED70/740 PSD SRN D9 SRG10 60/76P	-	0°
912300024545	BPP612 LED60/740 PSU SRN CLO 76P	-	0°
912300024546	BPP612 LED40/740 PSU SRN CLO 60P	-	0°
912300024547	BPP612 LED60/740 PSU SRN CLO 60P	-	0°
912300024802	BPP612 LED100-3S/830 PSU II MRN GR 60/76	-	0°

Order Code	Full Product Name	Standard tilt angle side entry	Standard tilt angle posttop
912300024803	BPP612 LED70-3S/830 PSU II SRN GR 60/76	-	0°
912300024548	BPP616 LED12/740 PSU SRN CLO 76P	10°	10°
912300024549	BPP616 LED18/740 PSU SRN CLO 76P	10°	10°
912300024550	BPP616 LED30/740 PSU SRN CLO 76P	10°	10°
912300024551	BPP616 LED12/740 PSU SRN CLO 60P	10°	10°
912300024552	BPP616 LED18/740 PSU SRN CLO 60P	10°	10°
912300024553	BPP616 LED30/740 PSU SRN CLO 60P	10°	10°
912300024554	BPP616 LED12/740 PSU SRN CLO 32/60S	10°	10°
912300024555	BPP616 LED18/740 PSU SRN CLO 32/60S	10°	10°
912300024556	BPP616 LED12/740 PSD SRN D9 SRG10 60S	10°	10°

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