PHILIPS Lighting

Iridium gen3 – The connected intelligent 'plug & play' road luminaire

Iridium gen3 LED Mini

Iridium gen3 is the first truly intelligent luminaire designed for seamless connectivity. No hassle in commissioning – just install the luminaire and control it from a distance through CityTouch management software. Remote light management made easy! The new 'plug & play' concept has been designed to ensure safe and easy installation in just three steps: 1. Install the spigot, 2. Plug in the mains, 3. Tilt and close the luminaire. The luminaire's high efficiency at system level ensures significant energy savings compared to existing conventional installations, offering a fast payback. Thanks to its wide choice of lumen packages, optics and color temperatures, Iridium gen3 fits most applications in residential areas. The luminaire's neo-classical design guarantees a consistent look and feel for your surroundings.

Benefits
· Seamless connection from luminaire to CityTouch software without commissioning
· 'Plug & play' installation in just three steps
· High efficiency ensuring fast payback and low TCO
· Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

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Features
- Seamless remote light management by means of CityTouch
- Auto-location and commissioning
- System efficacy of up to 124 lm/W
- Wide range of lumen packages between 1,000 and 4,000 lm
- Available in neutral white and warm white color temperature
- Choice of three optics: Medium Street (MSO), Wide Street (WSO) and Wet Roads (DK)
- Separate spigot for safe and easy installation
- Optimized architecture for 4 kV surge (optional 10 kV), IP66 and IK09 protection
- Lifetime 100Khrs min L80 at Tq +25 ºC

Application
- Residential areas: residential streets, cycle paths & footpaths, roundabouts, pedestrian crossings, parking areas
- City centers: side streets, pedestrian crossings, cycle paths & footpaths, parking areas, roundabouts
- Area and Transportation: industrial areas, parking areas, petrol stations, airports, harbors, public transport areas, waterways
- Sports: parking areas

Specifications

Type	BGP381		Options	Dimming LumiStep 6, 8 hrs
Light source	Integral LED-module			DynaDimmer
Power	9 to 36 W depending on LED configuration			Constant Light Output (CLO)
Luminous flux	1020 to 4021 lm			SDU
Luminaire efficacy	100 to 126 lm/W			1-10 V
Correlated Color	3000 K (warm white)			DALI
Temperature	4000 K (neutral white)			RF regulation
Color Rendering Index	≥ 80 (warm white)			Mains dimming
	≥ 70 (neutral white)			Nema socket
Lumen maintenance at	min L80			Photocell: mini cell 35, 55, 75 Lux
median useful life*				Fuse
100000 h				Cable: 3, 4, 5, 6 m
Control gear failure rate	10%			Surge protection
at median useful life			Optic	Medium wide street optic (MSO), wide street optic (WSO), road
100000 h				wet optic (DK)
Performance Ambient	+25 ºC		Material	Housing: high pressure die-cast aluminum
Temperature Tq				Cover: polycarbonate, flat
Operating temperature	–30 to +35 ºC		Color	Aluminum or grey
range				Other RAL or AKZO colors available on request
Driver	Built-in (self ballasted LED-module)		Connection	Push-in connector with 3 poles
Mains voltage	220-240 V / 50-60 Hz		Maintenance	Possibility to open with screw to replace driver and LED
Dimming	Dimmable versions available			module
Controls system input	1-10 V and DALI		Installation	Post top: 60 or 76 mm
				Side entry: 42 or 60 mm
				Recommended mounting height: 4 m
				Standard tilt angle post top: 0, 5 and 10º
				Adjustable tilt angle: 0, –5 and –10º

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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?.	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.
	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	

Versions

Iridium gen3 Mini BGP381 road-lighting luminaire

Product details

OPDP_BGP381i_0001-Detail photo

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Application Conditions

Maximum dim level	50%

Approval and Application

Mech. impact protection code	IK09
Surge Protection (Common/ Differential)	4/4 kV

Controls and Dimming

Dimmable	Yes

General Information

Luminaire light beam spread	152°
CE mark	CE mark
Parts color	Cover painted
Coating	–
Light source color	740 neutral white
Optical cover/lens type	Polycarbonate bowl/cover
Driver included	Yes
Flammability mark	–
Gear	EB
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	Yes
Number of gear units	1 unit
Number of light sources	1 pc
Optic type	Distribution medium
Product Family Code	BGP381
UL mark	–

Initial Performance (IEC Compliant)

Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	70

Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Upward light output ratio	0

Mechanical and Housing

Color	Gray

General Information

Order Code	Full Product Name	Lamp family code
910925439203	BGP381 GRN40/740 II DM CO GR CLO-DDF2 SP	GRN40
910925439204	BGP381 GRN45/740 II DM CO GR CLO-DDF2 SP	GRN45

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial luminous flux
910925439203	BGP381 GRN40/740 II DM CO GR CLO-DDF2 SP	3441 lm

Order Code	Full Product Name	Initial luminous flux
910925439204	BGP381 GRN45/740 II DM CO GR CLO-DDF2 SP	3813 lm

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