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

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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 of up to 100,000 hours at L80B10

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
Light source	Integral LED-module
Power	9 to 36 W depending on LED configuration
Luminous flux	1020 to 4021 lm
Luminaire efficacy	100 to 126 lm/W
Correlated Color	3000 K (warm white)
Temperature	4000 K (neutral white)
Color Rendering Index	≥ 80 (warm white)
	≥ 70 (neutral white)
Lumen maintenance at median useful life* 100000 h	min L80
Control gear failure rate at median useful life 100000 h	10%
Performance Ambient Temperature Tq	+25 ºC
Operating temperature range	-30 to +35 ºC
Driver	Built-in (self ballasted LED-module)
Mains voltage	220-240 V / 50-60 Hz
Dimming	Dimmable versions available
Controls system input	1-10 V and DALI

Options	Dimming LumiStep 6, 8 hrs
	DynaDimmer
	Constant Light Output (CLO)
	SDU
	1-10 V
	DALI
	RF regulation
	Mains dimming
	Nema socket
	Photocell: mini cell 35, 55, 75 Lux
	Fuse
	Cable: 3, 4, 5, 6 m
	Surge protection
Optic	Medium wide street optic (MSO), wide street optic (WSO), road wet optic (DK)
Material	Housing: high pressure die-cast aluminum
	Cover: polycarbonate, flat
Color	Aluminum or grey
	Other RAL or AKZO colors available on request
Connection	Push-in connector with 3 poles
Maintenance	Possibility to open with screw to replace driver and LED module
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?.
	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

Iridium gen3 Mini BGP381 road-lighting luminaire

Product details

OPDP_BGP381i_0001-Detail photo

Iridium gen3 LED Mini

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

General Information	
Luminaire light beam spread	152°
CE mark	CE mark
Parts color	Cover painted
Coating	-
Optical cover/lens type	PC
Driver included	Yes
Flammability mark	NO
Gear	EB
Glow-wire test	650/5
Light source replaceable	Yes
Number of gear units	1 unit
Number of light sources	1
Product Family Code	BGP381
UL mark	-

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

Mechanical and Housing	
Color	Gray

Application Conditions

Order Code	Full Product Name	Maximum dim level
90803600	BGP381 GRN11/740 I MSO CO GR SP	Not applicable
90804300	BGP381 GRN11/830 I MSO CO GR SP	Not applicable
90805000	BGP381 GRN13/740 I MSO CO GR SP	Not applicable
90806700	BGP381 GRN13/830 I MSO CO GR SP	Not applicable
90807400	BGP381 GRN15/740 I MSO CO GR SP	Not applicable
90808100	BGP381 GRN15/830 I MSO CO GR SP	Not applicable
90809800	BGP381 GRN17/740 I MSO CO GR SP	Not applicable
90811100	BGP381 GRN19/740 I MSO CO GR SP	Not applicable
90814200	BGP381 GRN20/830 I MSO CO GR SP	Not applicable
90815900	BGP381 GRN22/740 I MSO CO GR SP	Not applicable
90816600	BGP381 GRN25/830 I MSO CO GR SP	Not applicable
90817300	BGP381 GRN25/740 I MSO CO GR SP	Not applicable
90818000	BGP381 GRN30/830 I MSO CO GR SP	Not applicable
90819700	BGP381 GRN30/740 I MSO CO GR SP	Not applicable
90820300	BGP381 GRN35/830 I MSO CO GR SP	Not applicable
90821000	BGP381 GRN35/740 I MSO CO GR SP	Not applicable
90822700	BGP381 GRN40/830 I MSO CO GR SP	Not applicable
90823400	BGP381 GRN40/740 I MSO CO GR SP	Not applicable
90824100	BGP381 GRN45/740 I MSO CO GR SP	Not applicable
90825800	BGP381 GRN11/740 II MSO CO GR SP	Not applicable
90827200	BGP381 GRN13/740 II MSO CO GR SP	Not applicable
90829600	BGP381 GRN15/740 II MSO CO GR SP	Not applicable
90833300	BGP381 GRN19/740 II MSO CO GR SP	Not applicable
90835700	BGP381 GRN20/740 II MSO CO GR SP	Not applicable
90836400	BGP381 GRN20/830 II MSO CO GR SP	Not applicable
90837100	BGP381 GRN22/740 II MSO CO GR SP	Not applicable
90838800	BGP381 GRN25/830 II MSO CO GR SP	Not applicable
90839500	BGP381 GRN25/740 II MSO CO GR SP	Not applicable
90841800	BGP381 GRN30/740 II MSO CO GR SP	Not applicable
90843200	BGP381 GRN35/740 II MSO CO GR SP	Not applicable
90845600	BGP381 GRN40/740 II MSO CO GR SP	Not applicable
90846300	BGP381 GRN45/740 II MSO CO GR SP	Not applicable
32131700	BGP381 GRN19/830 II WSO CO GR CLO-LS-8 5	50%

Controls and Dimming

Order Code	Full Product Name	Dimmable
90803600	BGP381 GRN11/740 I MSO CO GR SP	No
90804300	BGP381 GRN11/830 I MSO CO GR SP	No
90805000	BGP381 GRN13/740 I MSO CO GR SP	No
90806700	BGP381 GRN13/830 I MSO CO GR SP	No
90807400	BGP381 GRN15/740 I MSO CO GR SP	No
90808100	BGP381 GRN15/830 I MSO CO GR SP	No
90809800	BGP381 GRN17/740 I MSO CO GR SP	No
90811100	BGP381 GRN19/740 I MSO CO GR SP	No
90814200	BGP381 GRN20/830 I MSO CO GR SP	No
90815900	BGP381 GRN22/740 I MSO CO GR SP	No
90816600	BGP381 GRN25/830 I MSO CO GR SP	No
90817300	BGP381 GRN25/740 I MSO CO GR SP	No
90818000	BGP381 GRN30/830 I MSO CO GR SP	No

Order Code	Full Product Name	Dimmable
90819700	BGP381 GRN30/740 I MSO CO GR SP	No
90820300	BGP381 GRN35/830 I MSO CO GR SP	No
90821000	BGP381 GRN35/740 I MSO CO GR SP	No
90822700	BGP381 GRN40/830 I MSO CO GR SP	No
90823400	BGP381 GRN40/740 I MSO CO GR SP	No
90824100	BGP381 GRN45/740 I MSO CO GR SP	No
90825800	BGP381 GRN11/740 II MSO CO GR SP	No
90827200	BGP381 GRN13/740 II MSO CO GR SP	No
90829600	BGP381 GRN15/740 II MSO CO GR SP	No
90833300	BGP381 GRN19/740 II MSO CO GR SP	No
90835700	BGP381 GRN20/740 II MSO CO GR SP	No
90836400	BGP381 GRN20/830 II MSO CO GR SP	No
90837100	BGP381 GRN22/740 II MSO CO GR SP	No

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Order Code	Full Product Name	Dimmable
90838800	BGP381 GRN25/830 II MSO CO GR SP	No
90839500	BGP381 GRN25/740 II MSO CO GR SP	No
90841800	BGP381 GRN30/740 II MSO CO GR SP	No
90843200	BGP381 GRN35/740 II MSO CO GR SP	No

Order Code	Full Product Name	Dimmable
90845600	BGP381 GRN40/740 II MSO CO GR SP	No
90846300	BGP381 GRN45/740 II MSO CO GR SP	No
32131700	BGP381 GRN19/830 II WSO CO GR CLO-LS-8 5	Yes

Operating and Electrical

Order Code	Full Product Name	Driver current
90803600	BGP381 GRN11/740 I MSO CO GR SP	300 mA
90804300	BGP381 GRN11/830 I MSO CO GR SP	335 mA
90805000	BGP381 GRN13/740 I MSO CO GR SP	370 mA
90806700	BGP381 GRN13/830 I MSO CO GR SP	410 mA
90807400	BGP381 GRN15/740 I MSO CO GR SP	440 mA
90808100	BGP381 GRN15/830 I MSO CO GR SP	480 mA
90809800	BGP381 GRN17/740 I MSO CO GR SP	510 mA
90811100	BGP381 GRN19/740 I MSO CO GR SP	260 mA
90814200	BGP381 GRN20/830 I MSO CO GR SP	670 mA
90815900	BGP381 GRN22/740 I MSO CO GR SP	300 mA
90816600	BGP381 GRN25/830 I MSO CO GR SP	390 mA
90817300	BGP381 GRN25/740 I MSO CO GR SP	350 mA
90818000	BGP381 GRN30/830 I MSO CO GR SP	480 mA
90819700	BGP381 GRN30/740 I MSO CO GR SP	440 mA
90820300	BGP381 GRN35/830 I MSO CO GR SP	580 mA
90821000	BGP381 GRN35/740 I MSO CO GR SP	520 mA
90822700	BGP381 GRN40/830 I MSO CO GR SP	670 mA

Order Code	Full Product Name	Driver current
90823400	BGP381 GRN40/740 I MSO CO GR SP	610 mA
90824100	BGP381 GRN45/740 I MSO CO GR SP	690 mA
90825800	BGP381 GRN11/740 II MSO CO GR SP	300 mA
90827200	BGP381 GRN13/740 II MSO CO GR SP	370 mA
90829600	BGP381 GRN15/740 II MSO CO GR SP	440 mA
90833300	BGP381 GRN19/740 II MSO CO GR SP	260 mA
90835700	BGP381 GRN20/740 II MSO CO GR SP	610 mA
90836400	BGP381 GRN20/830 II MSO CO GR SP	670 mA
90837100	BGP381 GRN22/740 II MSO CO GR SP	300 mA
90838800	BGP381 GRN25/830 II MSO CO GR SP	390 mA
90839500	BGP381 GRN25/740 II MSO CO GR SP	350 mA
90841800	BGP381 GRN30/740 II MSO CO GR SP	440 mA
90843200	BGP381 GRN35/740 II MSO CO GR SP	520 mA
90845600	BGP381 GRN40/740 II MSO CO GR SP	610 mA
90846300	BGP381 GRN45/740 II MSO CO GR SP	690 mA
32131700	BGP381 GRN19/830 II WSO CO GR CLO-LS-8 5	-

General Information

Order Code	Full Product Name	Light source color	Lamp family code	Light regulation percentage	Optic type
90803600	BGP381 GRN11/740 I MSO CO GR SP	740 neutral white	GRN11	-	Medium wide street optic
90804300	BGP381 GRN11/830 I MSO CO GR SP	830 warm white	GRN11	-	Medium wide street optic
90805000	BGP381 GRN13/740 I MSO CO GR SP	740 neutral white	GRN13	-	Medium wide street optic
90806700	BGP381 GRN13/830 I MSO CO GR SP	830 warm white	GRN13	-	Medium wide street optic
90807400	BGP381 GRN15/740 I MSO CO GR SP	740 neutral white	GRN15	-	Medium wide street optic
90808100	BGP381 GRN15/830 I MSO CO GR SP	830 warm white	GRN15	-	Medium wide street optic
90809800	BGP381 GRN17/740 I MSO CO GR SP	740 neutral white	GRN17	-	Medium wide street optic
90811100	BGP381 GRN19/740 I MSO CO GR SP	740 neutral white	GRN19	-	Medium wide street optic
90814200	BGP381 GRN20/830 I MSO CO GR SP	830 warm white	GRN20	-	Medium wide street optic
90815900	BGP381 GRN22/740 I MSO CO GR SP	740 neutral white	GRN22	-	Medium wide street optic

Order Code	Full Product Name	Light source color	Lamp family code	Light regulation percentage	Optic type
90816600	BGP381 GRN25/830 I MSO CO GR SP	830 warm white	GRN25	-	Medium wide street optic
90817300	BGP381 GRN25/740 I MSO CO GR SP	740 neutral white	GRN25	-	Medium wide street optic
90818000	BGP381 GRN30/830 I MSO CO GR SP	830 warm white	GRN30	-	Medium wide street optic
90819700	BGP381 GRN30/740 I MSO CO GR SP	740 neutral white	GRN30	-	Medium wide street optic
90820300	BGP381 GRN35/830 I MSO CO GR SP	830 warm white	GRN35	-	Medium wide street optic
90821000	BGP381 GRN35/740 I MSO CO GR SP	740 neutral white	GRN35	-	Medium wide street optic
90822700	BGP381 GRN40/830 I MSO CO GR SP	830 warm white	GRN40	-	Medium wide street optic
90823400	BGP381 GRN40/740 I MSO CO GR SP	740 neutral white	GRN40	-	Medium wide street optic
90824100	BGP381 GRN45/740 I MSO CO GR SP	740 neutral white	GRN45	-	Medium wide street optic
90825800	BGP381 GRN11/740 II MSO CO GR SP	740 neutral white	GRN11	-	Medium wide street optic

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Order Code	Full Product Name	Light source color	Lamp family code	Light regulation percentage	Optic type
90827200	BGP381 GRN13/740 II MSO CO GR SP	740 neutral white	GRN13	-	Medium wide street optic
90829600	BGP381 GRN15/740 II MSO CO GR SP	740 neutral white	GRN15	-	Medium wide street optic
90833300	BGP381 GRN19/740 II MSO CO GR SP	740 neutral white	GRN19	-	Medium wide street optic
90835700	BGP381 GRN20/740 II MSO CO GR SP	740 neutral white	GRN20	-	Medium wide street optic
90836400	BGP381 GRN20/830 II MSO CO GR SP	830 warm white	GRN20	-	Medium wide street optic
90837100	BGP381 GRN22/740 II MSO CO GR SP	740 neutral white	GRN22	-	Medium wide street optic
90838800	BGP381 GRN25/830 II MSO CO GR SP	830 warm white	GRN25	-	Medium wide street optic
90839500	BGP381 GRN25/740 II MSO CO GR SP	740 neutral white	GRN25	-	Medium wide street optic
90841800	BGP381 GRN30/740 II MSO CO GR SP	740 neutral white	GRN30	-	Medium wide street optic
90843200	BGP381 GRN35/740 II MSO CO GR SP	740 neutral white	GRN35	-	Medium wide street optic
90845600	BGP381 GRN40/740 II MSO CO GR SP	740 neutral white	GRN40	-	Medium wide street optic
90846300	BGP381 GRN45/740 II MSO CO GR SP	740 neutral white	GRN45	-	Medium wide street optic
32131700	BGP381 GRN19/830 II WSO CO GR CLO-LS-8 5	830 warm white	GRN19	50%	Wide street optic

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
90803600	BGP381 GRN11/740 I MSO CO GR SP	4000 K	70	1045 lm
90804300	BGP381 GRN11/830 I MSO CO GR SP	3000 K	80	1045 lm
90805000	BGP381 GRN13/740 I MSO CO GR SP	4000 K	70	1235 lm
90806700	BGP381 GRN13/830 I MSO CO GR SP	3000 K	80	1235 lm
90807400	BGP381 GRN15/740 I MSO CO GR SP	4000 K	70	1425 lm
90808100	BGP381 GRN15/830 I MSO CO GR SP	3000 K	80	1425 lm
90809800	BGP381 GRN17/740 I MSO CO GR SP	4000 K	70	1615 lm
90811100	BGP381 GRN19/740 I MSO CO GR SP	4000 K	70	1805 lm
90814200	BGP381 GRN20/830 I MSO CO GR SP	3000 K	80	1880 lm
90815900	BGP381 GRN22/740 I MSO CO GR SP	4000 K	70	2090 lm
90816600	BGP381 GRN25/830 I MSO CO GR SP	3000 K	80	2350 lm
90817300	BGP381 GRN25/740 I MSO CO GR SP	4000 K	70	2375 lm
90818000	BGP381 GRN30/830 I MSO CO GR SP	3000 K	80	2790 lm
90819700	BGP381 GRN30/740 I MSO CO GR SP	4000 K	70	2820 lm
90820300	BGP381 GRN35/830 I MSO CO GR SP	3000 K	80	3255 lm
90821000	BGP381 GRN35/740 I MSO CO GR SP	4000 K	70	3290 lm
90822700	BGP381 GRN40/830 I MSO CO GR SP	3000 K	80	3680 lm
90823400	BGP381 GRN40/740 I MSO CO GR SP	4000 K	70	3760 lm
90824100	BGP381 GRN45/740 I MSO CO GR SP	4000 K	70	4230 lm
90825800	BGP381 GRN11/740 II MSO CO GR SP	4000 K	70	1045 lm
90827200	BGP381 GRN13/740 II MSO CO GR SP	4000 K	70	1235 lm
90829600	BGP381 GRN15/740 II MSO CO GR SP	4000 K	70	1425 lm
90833300	BGP381 GRN19/740 II MSO CO GR SP	4000 K	70	1805 lm
90835700	BGP381 GRN20/740 II MSO CO GR SP	4000 K	70	1900 lm
90836400	BGP381 GRN20/830 II MSO CO GR SP	3000 K	80	1880 lm
90837100	BGP381 GRN22/740 II MSO CO GR SP	4000 K	70	2090 lm
90838800	BGP381 GRN25/830 II MSO CO GR SP	3000 K	80	2350 lm
90839500	BGP381 GRN25/740 II MSO CO GR SP	4000 K	70	2375 lm
90841800	BGP381 GRN30/740 II MSO CO GR SP	4000 K	70	2820 lm
90843200	BGP381 GRN35/740 II MSO CO GR SP	4000 K	70	3290 lm

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Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
90845600	BGP381 GRN40/740 II MSO CO GR SP	4000 K	70	3760 lm
90846300	BGP381 GRN45/740 II MSO CO GR SP	4000 K	70	4230 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
32131700	BGP381 GRN19/830 II WSO CO GR CLO-LS-8 5	3000 K	80	1692 lm

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