



# 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 °C

## 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)<br>≥ 70 (neutral white) |
| Lumen maintenance at median useful life*<br>100000 h           | min L80                                   |
| Control gear failure rate<br>at median useful life<br>100000 h | 10%                                       |
| Performance Ambient<br>Temperature Tq                          | +25 °C                                    |
| Operating temperature<br>range                                 | -30 to +35 °C                             |
| 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<br>DynaDimmer<br>Constant Light Output (CLO)<br>SDU<br>1-10 V<br>DALI<br>RF regulation<br>Mains dimming<br>Nema socket<br>Photocell: mini cell 35, 55, 75 Lux<br>Fuse<br>Cable: 3, 4, 5, 6 m<br>Surge protection |
| Optic        | Medium wide street optic (MSO), wide street optic (WSO), road wet optic (DK)   |
| Material     | Housing: high pressure die-cast aluminum<br>Cover: polycarbonate, flat   |
| Color        | Aluminum or grey<br>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<br>Side entry: 42 or 60 mm<br>Recommended mounting height: 4 m<br>Standard tilt angle post top: 0, 5 and 10°<br>Adjustable tilt angle: 0, -5 and -10°  |

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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



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## Application Conditions

|                   |     |
|-------------------|-----|
| Maximum dim level | 50% |
|-------------------|-----|

## Approval and Application

|  |        |
|--|--------|
| Mech. impact protection code               | IK09   |
| Surge Protection (Common/<br>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<br>bowl/cover         |
| Driver included             | Yes                                 |
| Flammability mark           | -                                   |
| Gear                        | EB                                  |
| Glow-wire test              | Temperature 650<br>°C, duration 5 s |
| Light source replaceable    | Yes                                 |
| Number of gear units        | 1 unit                              |
| Number of light sources     | 1 pc                                |
| Optic type                  | Distribution<br>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 | Order Code   | Full Product Name                        | Initial luminous flux |
|--------------|--|-----------------------|--------------|--|-----------------------|
| 910925439203 | BGP381 GRN40/740 II DM CO GR CLO-DDF2 SP | 3441 lm               | 910925439204 | BGP381 GRN45/740 II DM CO GR CLO-DDF2 SP | 3813 lm               |

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