



# Iridium LED Mini – compact performer

## Iridium LED Mini

The second generation of compact Mini Iridium LED road-lighting luminaires offers a much wider scope of application thanks to a more powerful LED engine and brand new optics, which allow maximum energy savings in residential streets. Additional control devices can be fitted into the mast and communicate with the luminaire to further increase energy savings. This new generation of Mini Iridium LED also gives municipal authorities the freedom to change the atmosphere of the street thanks to the choice of different color temperatures (warm, neutral and cool white).

### Benefits

- Future-proof luminaire: easy to maintain; LED upgrade
- Best total cost of ownership

### Features

- Powerful LED engine
- Choice of tones of white light
- Best-in-class optics
- Mast-mounted controls (optional)

### Application

- Streets: mixed traffic and residential streets
- Walking/cycling paths, car parks

### Specifications

Type	BGS451
Light source	Integral LED-module
Power	GreenLine (GRN): 20 to 29 W depending on LED configuration EconomyLine (ECO): 29 to 41 W depending on LED configuration

Luminous flux	GreenLine: 1328 to 2527 lm EconomyLine: 1856 to 3483 lm
Luminaire efficacy	Up to 90 lm/W

## Iridium LED Mini

<b>Correlated Color</b>	Warm white: 3000 K
<b>Temperature</b>	Neutral white: 4000 K
	Cool white: 5700 K
<b>Color Rendering Index</b>	Warm white: $\geq 84$
	Neutral white: $\geq 76$
	Cool white: $\geq 68$
<b>Lumen maintenance at median useful life*</b>	GreenLine: min L80
<b>100000 h</b>	
<b>Lumen maintenance at median useful life*</b>	EconomyLine: min L80
<b>75000 h</b>	
<b>Control gear failure rate at median useful life</b>	GreenLine: 10%
<b>100000 h</b>	
<b>Control gear failure rate at median useful life</b>	EconomyLine: 7.5%
<b>75000 h</b>	

<b>Performance Ambient</b>	+25 °C
<b>Temperature Tq</b>	
<b>Operating temperature range</b>	-25 to +35 °C
<b>Driver</b>	Built-in (self ballasted LED-module)
<b>Mains voltage</b>	220-240 V / 50-60 Hz
<b>Dimming</b>	CLO (Constant Light Output)
	Lumistep
	Mains dimming
<b>Controls system input</b>	1-10 V
<b>Options</b>	Dimming: Lumistep 6, 8 hrs
	Dynadimmer
	Constant Light Output (CLO)
	SDU
	1-10 V
	RF Antenna
	Mains dimming

## Specifications

<b>Optic</b>	Medium street optic (MSO), wide street optic (WSO), narrow street optic (NSO), low pole optic (LPO)
<b>Optical element</b>	PMMA lenses
<b>Material</b>	Housing: die-cast aluminum
	Gasket: silicone rubber, heat-resistant
	Cover: polycarbonate, frosted with clear lenses
	Heat sink (internal): high-pressure die-cast aluminum, non-corrosive
<b>Color</b>	Grey, RAL7035
	Other RAL or AKZO colors available on request
<b>Connection</b>	Multiblock connector
<b>Maintenance</b>	Easy maintenance / LED module upgradeable

<b>Installation</b>	Post-top mounting: axial entry Ø 60-76 mm
	Side-entry mounting: lateral entry Ø 34-48 mm
	Recommended mounting height: 3.5-6 m
	Standard tilt angle post top: 10°
	Max SCx: 0.032 m²
<b>Accessories</b>	Adaptor ZGS451 for 60 mm brackets
	Wall-mounting bracket
	Dedicated mast and wall brackets available for different mounting possibilities
<b>Remarks</b>	Iridium LED fits perfectly residential street applications thanks to high efficiency LED module and optics dedicated to it

## Versions



Iridium LED Mini BGS451 road-lighting luminaire

# Iridium LED Mini

## Product details



### Approval and Application

Mech. impact protection code	IK08
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

### Controls and Dimming

Dimmable	No
----------	----

### General Information

Luminaire light beam spread	180°
CE mark	CE mark
Colored frame	-
Optical cover/lens type	PC
Driver included	Yes
Flammability mark	NO
Glow-wire test	650/5
Light source replaceable	Yes
Number of gear units	1 unit
Product Family Code	BGS451

### Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	10°
Upward light output ratio	0.03

### Mechanical and Housing

Color	Gray
-------	------

### General Information (1/2)

Order Code	Full Product Name	Coating	Light source color	Green Flagship mark	Lamp family code
85083900	BGS451 ECO43--2S/740 II MSO GR	-	740 neutral white	-	ECO43
85378600	BGS451 GRN29--2S/740 II MSO GR CLO	-	740 neutral white	-	GRN29
85379300	BGS451 ECO43--3S/740 II MSO GR	-	740 neutral white	-	ECO43
40397500	BGS451 GRN24--2S/830 I WSO GR CLO	-	830 warm white	Green Flagship	GRN24

### General Information (2/2)

Order Code	Full Product Name	Lamp version	Optic type
85083900	BGS451 ECO43--2S/740 II MSO GR	2S	Medium wide street optic
85378600	BGS451 GRN29--2S/740 II MSO GR CLO	2S	Medium wide street optic

Order Code	Full Product Name	Lamp version	Optic type
85379300	BGS451 ECO43--3S/740 II MSO GR	3S	Medium wide street optic

## Iridium LED Mini

Order Code	Full Product Name	Lamp	Optic type
		version	
40397500	BGS451 GRN24--2S/830 I WSO GR CLO	2S	Wide street optic

### Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color	Init. Color	Initial luminous flux
		Temperature	Rendering Index	
85083900	BGS451 ECO43--2S/740 II MSO GR	4000 K	70	4321 lm
85378600	BGS451 GRN29--2S/740 II MSO GR CLO	4000 K	70	2905 lm

Order Code	Full Product Name	Init. Corr. Color	Init. Color	Initial luminous flux
		Temperature	Rendering Index	
85379300	BGS451 ECO43--3S/740 II MSO GR	4000 K	70	4321 lm
40397500	BGS451 GRN24--2S/830 I WSO GR CLO	3000 K	80	2405 lm

