



Iridium gen4

BGP501 LED45-4S/740 II DW10 FG GF SRTB S

Iridium gen4, Road & street light, 27.5 W, 3960 lm, 4000 K, CRI70, Internal (no external connection), Distribution wide 10, Safety class II, IP66, SRG6-6

Iridium gen4, the fourth generation of the Iridium family, is completely redesigned and fully optimized for visual comfort and tool-less maintenance. The Iridium gen4 provides guidance through the clear curved bowl placed in each luminaire along the road. Optional is the offer with GentleBeam. This is a textured curved glass, which reduces glare and improves visual comfort, while maintaining a good lighting distribution. The luminaire holds a new plug and play GearFlex module. This ensures a simplified maintenance and spare part repair process. The complete redesigned luminaire has a tool less opening, similar to Luma gen2, containing all electrical components in an easy to handle and accessible box inside the housing. Besides, the cable feed-through has been redesigned and access to the gear components is easy thanks to top down tool-less access. Iridium gen4 offers all connectivity and dimming options available today. As System Ready luminaire, it can be paired with lighting management systems such as Interact City or existing and upcoming sensor innovations. Also, installation has become easier and faster, and thanks to Service tag, you have access to all relevant documentations onsite. As a company conscious about the impact of light on the environment and biodiversity, the Iridium gen4 is equipped with dedicated light recipes that help with maintaining the optimal ecosystems for bats or preserve a dark night sky. Iridium gen4 is a luminaire rated as best in class regarding efficiency and light performance, compared to other luminaires in the range, in a broad range of applications.

Product data

Iridium gen4

General Information	
Lamp family code	LED45-4S [LED module, system flux 4500 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
Light source engine type	LED
Service tag	Yes
Lighting Technology	LED
Value ladder	Specification
Warranty period	5 years
Sustainability rating	Lighting for circularity

Light Technical	
Upward light output ratio	0
Luminous Flux	3.960 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	144 lm/W
Color rendering index (CRI)	70
Light source color	740 neutral white
Luminaire light beam spread	34° x 62°
Optic type outdoor	Distribution wide 10
Effective projected area	0.022 m²

Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	21 A
Inrush time	0.3 ms
Power Consumption	27.5 W
Power Factor (Fraction)	0.97
Connection	Connection unit 5-pole
Cable	-
Number of products on MCB of 16 A type B	21
Protection class IEC	Safety class II
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 6 kV common mode

Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI and SystemReady interface
Control interface	Internal (no external connection)
Constant light output	No
Maximum dim level	Not applicable

Mechanical and Housing	
Housing Material	Aluminum
Reflector material	-
Optic material	Polymethyl methacrylate
Optical cover material	Glass
Fixation material	Aluminum

Housing Color	Gray
Mounting device	Spigot for diameter 62 mm
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	545 mm
Overall width	310 mm
Overall height	159 mm
Dimensions (Height x Width x Depth)	159 x 310 x 545 mm
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK10 [20 J vandal-resistant]
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Optical cover type	Glass
Net Weight (Piece)	8.130 kg

Approval and Application	
Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	ENEC plus mark
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
Remarks	* At extreme ambient temperatures the luminaire might automatically dim down to protect components
Ambient temperature range	-40 to +50 °C

Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-7%
Initial chromaticity	70
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2

Over Time Performance (IEC Compliant)	
Driver failure rate at 5000 h	0.5 %
Control gear failure rate at median useful life 35000 h	1.75 %
Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 75000 h	3.75 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 35000 h	L97
Lumen maintenance at median useful life* 50000 h	L98
Lumen maintenance at median useful life* 75000 h	L94

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Lumen maintenance at median useful life*	L96
100000 h	
Product Data	
Order product name	BGP501 LED45-4S/740 II DW10 FG GF SRTB S
Full product name	BGP501 LED45-4S/740 II DW10 FG GF SRTB S
Full product code	871951405989400

Order code	910925866557
Material Nr. (12NC)	910925866557
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514059894
Numerator - Packs per outer box	1
EAN/UPC - Case	8719514059894
Product family code	BGP501 [Iridium gen4 Mini]

Dimensional drawing

