



Iridium gen4

Leading the way
in road lighting



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Meet Iridium gen4

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 Iridium gen4, 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.



Benefits

Ease of maintenance and fast repair enablement with tool-less opening and GearFlex module. With Service tag immediate spare part identification.



With GearFlex mini you can choose between a fuse or a 10KV surge protection or a Lunatone. While with GearFlex medium you can have a combination of the above features.

Iridium gen4 mini GearFlex



Iridium gen4 medium GearFlex



System ready with SR socket to connect with Interact City lighting management software and third party lighting management systems and sensors.

New optical accessories: What is possible?



Clear bowl
Clear bowl offers lighting ideal for guidance.



Backlight louver
Backlight louver reduces light trespassing



Gentle beam bowl
Gentle beam bowl offers comfortable lighting by reducing glare thanks to its micro texture in the curved glass.

Features

Highest impact resistance, IK10

Wide range of lumen packages, ranging from 1,000 to 26,000 lm

Choice of 40+ different beams and option of different internal louvers

Efficacy up to 155 lm/W

New curved bowls for guidance lighting or visual comfort

Equipped with dedicated light recipes that help

1. Maintaining the optimal ecosystems for bats
2. Preserve a dark night sky and reduce light pollution



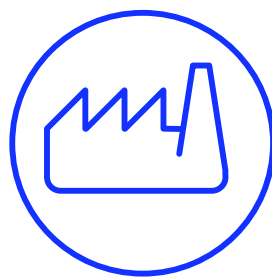
Application areas

The Iridium gen4 family meets the needs of a wide variety of applications in towns, cities and the urban surroundings, from large inner-city highways to narrow paths.



City Center

- Residential streets
- Side streets
- Squares
- Parks
- Cycle and pedestrian paths
- Playgrounds



Area and transportation

- Parking areas
- Industrial areas
- Petrol stations
- Rail yards
- Airports
- Harbors
- Waterways



Traffic route

- Motorways
- Inter-urban main roads
- Boulevards and avenues
- Roundabouts
- Pedestrian crossings



Interact for smart lighting in city applications

Interact City lighting management software turns your street lighting into a connected network capable of hosting sensors and other IoT enabled devices. It enables you to tap into a wide range of both lighting and non-lighting benefits such as dimming, presence detection, noise or air quality monitoring, and incident detection.

Smart

- Benefit from remote control and monitoring and reporting capabilities
- Use data to make better informed decisions more quickly

Sustainable

- Identify opportunities for further energy savings by dimming, scheduling and zoning
- Optimize the lights' power factor to minimize waste and reduce demand on the power grid

System ready

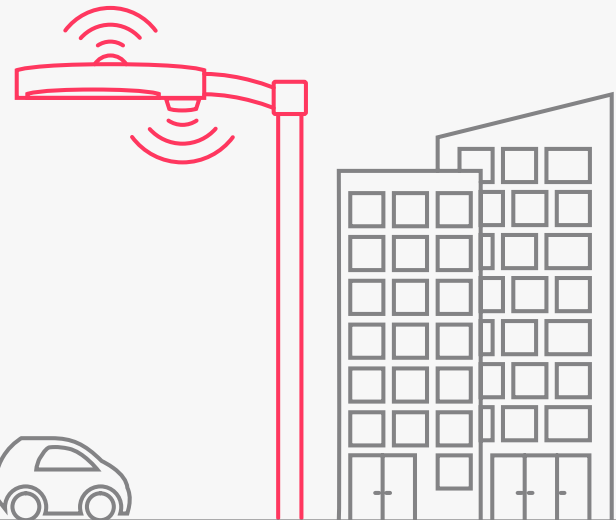
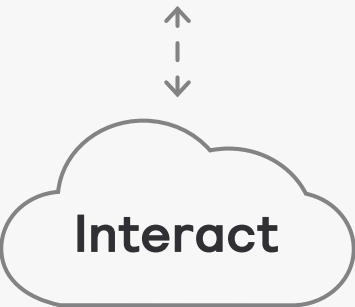
- The Open APIs of the system allow Interact City lighting management software to be integrated into your other city management systems
- This enables your existing partners or independent third parties to use it as a platform for future innovation

 **Select IACZ-4 (Interact City) product versions**

This is all you need for your smart lighting system

Iridium gen4
equipped with universal socket on the top and/or bottom

Software applications



The right solution for outdoor applications: LEDgine



Our latest generation LEDgine optimized light engine offers the flexibility to further optimize your preferences for luminaire efficacy and cost aspects. The LEDgine optimized light engine covers a wide range of standard fluxes and a full range of standard optics is available to cover a wide range of applications. Moreover, where needed we can support you to tune and optimize your project solutions as to fluxes and light distributions further with our exclusive tools. The three pillars that characterize the light engines are standardized optics, standard engines and tailor-made solutions.



Luminaire efficacy optimization: LEDgine optimized

LED count and glass options optimizing system lm/W supporting high energy savings.

High flux per area enabling use of compact lower cost luminaire sizes.

Standard engine
High performance across portfolios.

Using a standard engine across different luminaire ranges means you can optimally benefit from the latest LED upgrades without changing light distributions, so design continuity is assured. Standard flux packages are pre-defined across product ranges. Flux and thereby energy minimization is achieved by using best possible lumen maintenance (up to L98 or CLO solutions). The LEDgine optimized engine benefits from more LEDs per area contributing to more compact and cost effective solutions. Standard engines minimize spare components which are easy to configure by using our Service tag application.

Standardized optics
A perfect application fit. A wide range of light distributions ensure a perfect fit for many applications.

The optics offer flexibility, enabling standardization over applications with a good performance across a wide range of geometries – as well as design parameters such as tilt and overhang. The optics comply with national and European road lighting standards.

Tailor-made solutions
Tuning to project preferences.

We can support you with our exclusive Lucia tool to customize solutions which of course can become your standard! Using a variety of LED counts it enables to build the exact required flux in a perfect balance between energy consumption, luminaire cost/type and operational life. Based on project parameters the best optical fit can be selected and when required light distributions can be customized for best application fit and to maximize energy savings.

Signify Service tag

Service tag from Signify is a unique QR code-based LED luminaire asset identification system that provides detailed information on specification and spare parts. The system simplifies the installation and maintenance of lighting infrastructure by utilizing cloud technology. Service tag also plays a key role in the circular design of our lighting solutions, as it extends their service life and reduces maintenance efforts, ensuring efficient servicing and avoiding waste.



How it works

Every luminaire is equipped with a unique QR code. All relevant asset data is stored in the service cloud, including detailed luminaire specification, User data (geo location, project-location, external ID, notes, etc.) and information on spare parts and accessories. By scanning the QR code on the packaging or luminaire with the Signify Service tag app, this information becomes instantly accessible, offering invaluable benefits.

Your benefits at a glance



During installation



#1. Download the app

Download the Service tag app from the App store or Play store on your mobile device (iOS or Android).



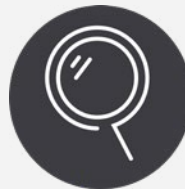
#3. Create a group QR code

If you have multiple luminaires, it's possible to use the Service tag app to combine individual luminaires into a group. Each group will have its own unique group QR code.



#2. Register the luminaire

Register the luminaire by simply scanning the QR code on the packaging or luminaire. The system automatically identifies the type of each luminaire.



#4. Luminaire information

Scan the QR code on your luminaire for easy access to the installation manual.

During service/maintenance



#1. Spare parts identification

Use the Service tag app to view a luminaire's spare parts, which contains all necessary information for quick ordering.



#2. Spare parts programming

Quickly program a spare driver using the Service tag app—without needing a faulty driver on hand. Scan the QR code of a luminaire with your device, put your mobile device on the spare driver, press “Program” and the spare driver receives the right settings for this specific luminaire.



Easy installation and commissioning

- Access to product details, manuals and spare parts
- Helps avoid errors



Simplified maintenance

- Detailed information on products
- Quick access to relevant information means less time required for repairs or replacements



Asset management

- Real-time tracking of assets
- Simplified management of replacements, upgrades and warranty information

Learn more at signify.com/global/service-tag



Easy maintenance with GearFlex plug-and-play

GearFlex is designed to make Iridium gen4 maintenance safer and more efficient.

GearFlex is an internal component box within the luminaire, designed for easy maintenance. Technicians can simply remove the GearFlex module to replace or adjust components in the convenience of their van or workshop – reducing the need for ladder work and making maintenance much safer and more efficient.

- Fast GearFlex replacement in 30 seconds*
- Designed for recycling and optimal re-use of components
- Increased performance and safety with no live wires
- No risk of faulty wiring in the field
- Safe repair in the workshop

*Validated in service tests performed by qualified third-party installers



Replace the GearFlex module without tools in 5 easy steps

1. Open the luminaire
2. Remove the GearFlex box – it's quick and tool-free
3. Scan the Service tag QR code with a smartphone using the Service tag app
4. Take the replacement GearFlex module and program the driver with the Service tag app
5. Place the module in the luminaire and close it

Done!



Designed for a circular economy

In 2024, we used 1.7 times the resources our planet can sustain. To transition to a sustainable and circular economy, we need to rethink the way we produce and consume. There's no plan B for our home planet. By choosing our lighting for circularity solutions, you get flexibility in lighting configurations and settings while reducing your carbon footprint to help you reach your sustainability development goals.

Go for optimal sustainability by selecting your renovation path

Are you looking to update your non-LED lighting?

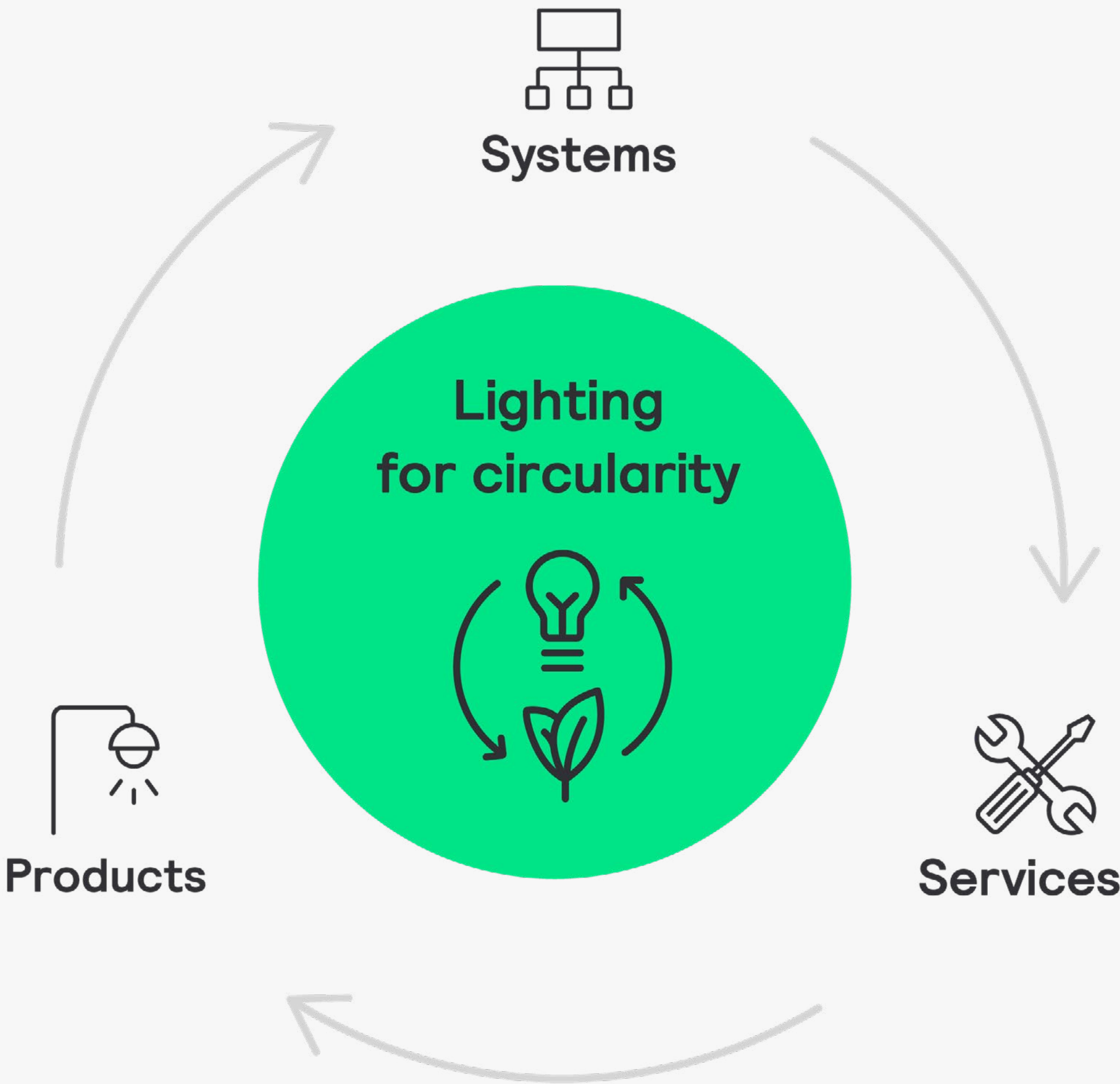
- Choose our lighting for circularity products
- Full portfolio of circular economy ready Signify LED luminaires
- Superior efficacy
- Products are recyclable, connectable and serviceable.

Are you planning to update your LED-based infrastructure?

- Discover our remanufacturing or refurbishment services
- Gain enhanced luminaire performance, extended lifetimes, and end of contract management

Do you want to unlock the potential of smart lighting?

- Update your infrastructure to smart lighting with our systems solutions
- Optimize your energy costs with insights into your energy usage
- Configure lighting behavior
- Remotely monitor your lighting system



Lighting for both nature and people

A lighting solution minimizing the night-time disturbance of bats

Lighting needs to provide safety and comfort for people. At the same time it is important to take care about every living creature and protect them from extinction. Seven years of research have led to the development of an optimized light spectrum for bats, mammals being natural indicators of environmental health. This spectrum will be equivalent to darkness for some bats while deliver sufficient light for safe human activities.

Ensuring a dark night sky

Instead of darkness above us the sky becomes illuminated – a problem affecting over 80% of the world's skies and 99% U.S and European ones. Not only does sky glow prevent us from enjoying a starfilled night sky, it hinders astronomers' observations, wastes energy and negatively impacts our circadian rhythms and the animals that use light for orientation.

To address this problem, we've developed a special optical platform. Next to being fully compliant with the requirements of astronomy institutions, it also provides excellent light distribution and high energy efficiency. And thanks to our connected lighting platforms, it's possible to use light when and where it's needed and create flexible dimming calendars.



Family overview

Iridium gen4 medium



Iridium gen4 mini



Components



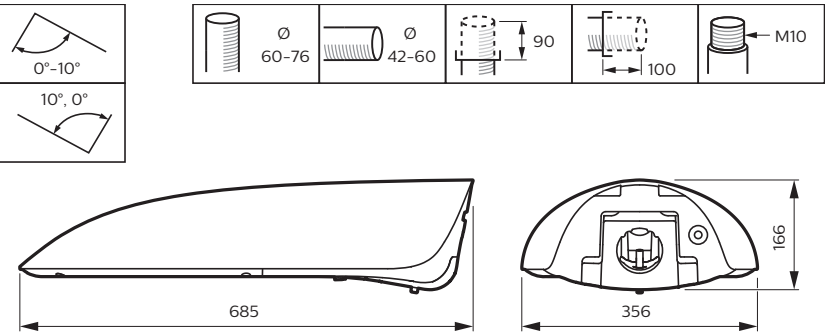
Product specifications

Product designation	BGP501 Iridium gen4 mini, BGP502 Iridium gen4 medium
Light source	Built-in LED-module
Power	BGP501: neutral and cool white: 5.8 up to 42.5W, warm white: 5.8 up to 40.5W BGP502: neutral and cool white: 5.8 up to 112W, warm white: 5.5 up to 125W
Luminous flux ranges	BGP501: neutral and cool white nominal: 800 to 6600 lm, neutral and cool white system: 720 to 5874 lm warm white nominal: 600 to 5000 lm, warm white system: 540 to 4450 lm BGP502: neutral and cool white nominal: 800 to 18000 lm, neutral and cool white system: 728 to 16228 lm warm white nominal: 600 to 16000 lm, warm white system: 540 to 13703 lm Or tailor flux using L-Tune software
Luminaire efficacy	BGP501: NW/CW up to 144 lm/W, WW up to 117 lm/W BGP502: NW/CW up to 163 lm/W, WW up to 125 lm/W
L-tune	L-tune available for all versions
Correlated color temperature	2200, 2700, 3000, 4000 or 5700 K
IP rating	IP66
IK rating	IK10
Surge protection	6/8Kv, optional 10Kv
Color Rendering Index	>70 (for CW, NW) >80 (for WW)
Light recipes	ClearStar, Clearfield
Glass	Available in flat glass, with a clear bowl for guidance lighting and a textured Gentlebeam bowl for visual comfort
Useful life	100,000 hours min L90 at 25 °C ambient temperature
Operating temperature range	-40 to +50 °C
Driver	Programmed LED drivers
Mains voltage	220-240 V / 50-60 Hz
Dimming	Stand-alone DynaDimmer DALI, Lunatone, mains dimming
Connectivity option	Interact City, EasyAir, Watstopper motion sensor
Connectors	NEMA, SR

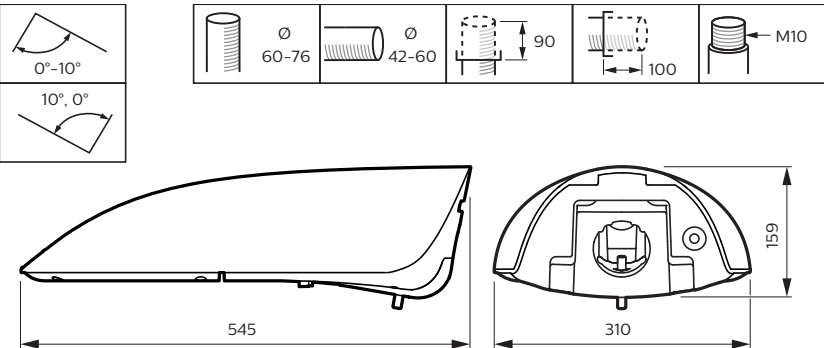
Optic	Narrow, medium, wide or extra wide road optics: DM10, DM11, DM12, DM13, DM30, DM31, DM32, DM33, DM50, DM70, DPR1, DPL1, DS50, DW10, DW50, DX10, DX51, DX70, DN08, DN09, DN10, DN11, DN26, DN50, DRM1, DRM2, DRN1, DRN2
Louvres	NEMA, SR dedicated louvres for backlight cut-off BL1, BL2
Tilt	Standard tilt angle post top: 0° adjustable, side entry: 0° to -10° Post top: 0° to 10°, adjustable in steps of 2,5°
Optical cover	Flat cover, glass Optional tool-less glass opening
Material	Housing: die-casted parts of EN AC 44300 alloy (based on EN 1706:2010) Cover: clear glass
Color	Antracite or light grey Other RAL or AKZO Futura colors or duo colors available on request
Connection	Plug in cable connector
Maintenance	Canopy hinges upwards for top-down access and is secured by an auto-fixating locking bar, making the gear compartment safely accessible. GearFlex gear box enables tool-less replacement of all electrical components GearFlex protects user from components under current. Optionally, the LED compartment can be accessed tool-less, by using thumbscrews.
Installation	BGP501-502 post top mounting Ø 60-76 mm BGP501-502 side entry mounting Ø 42-60 mm Tilt angle: Post top: 0°/10°, Side entry : 10°/0°
Accessories	Dedicated safety strap
Options	MSP- Marine salt protection coating fuses, SRG10 surge protection.
Certification	RoHS, REACH, CE, ENEC, ENEC+.
Cables	Optionally pre-fitted with cable up to 22 meter

Product dimensions

Iridium gen4 medium



Iridium gen4 mini



You and Signify – a reliable partnership

Signify is the world leader in connected LED lighting systems, software and services. We proudly bring to market the best lighting brands in the world, including Signify, Philips and Interact.

We believe in close cooperation before, during, and after every project. Our local teams provide the support and information you need—with flexible, on-time delivery and reliable product availability.

To help you stay ahead, the [Signify Lighting Academy](#) offers a comprehensive range of educational resources to grow your expertise and earn certification.

Our global brands



Signify represents our commitment to sustainable innovation. As our leading brand for connected lighting systems, luminaires and components for the specification project business, Signify solutions serve the segments where we collaborate most closely with our customers.



Signify Interact is our IoT software platform for managing smart lighting systems and unlocking the value of the data they collect. Easy to install and configure, Interact supports a wide range of applications—from small offices to entire cities.



Philips stands for quality and energy efficiency in lighting. It is our leading brand for innovative, off-the-shelf lighting products for professionals and consumers alike.

Get more info on our products, services and tools:



Driven by responsible innovation

Signify and the Mercedes-AMG PETRONAS F1 Team share a passion for technology and a desire to push the boundaries of what is possible. Our innovations in lighting serve the well-being and performance of the team, deliver powerful experiences, both trackside and at home, and help the team pursue its ambition to become one of the most sustainable in sport.

Learn more at

Signify is Official Lighting Partner of Mercedes-AMG PETRONAS F1 Team



Official Lighting Partner





the meaning of light