



Villa LED gen2

The iconic Iberian four-sided luminaire



Global trends

We are increasingly urban and global

Today 50% of the world's population lives in cities. This is expected to rise to 75% by 2050.

Environmental awareness

Cities want to meet their sustainability goals and reduce light pollution and their impact on the environment.

Cities want to establish identity

Municipalities want to enhance the quality of life, well-being of citizens and create comfortable public spaces.

Growing connectivity

There are new opportunities to improve urban life through intelligent lighting part of the IoT eco-system.

Beyond illumination

As the needs and roles of cities evolve, requirements towards lighting are also changing. Offering value beyond illumination, cities want to create their own signature, emphasizing their unique character. Lighting needs to do more than just delivering illumination during night-time. Lighting is expected to help create unique ambiances, make spaces safer and more livable for citizens while keeping operation costs low and provide a platform for future integrations.



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Meet Villa LED gen2

Villa LED gen2 retains the specific proportions and shape of the traditional four-sided luminaires originally used in 19th century in Madrid. It allows a remarkable balance between performance and heritage preservation. Now widely used across the Iberian Peninsula, Villa LED gen2 is suitable for lighting historical environments and traditional towns and villages.

Wide application coverage

Thanks to the built-in LEDgine optimized LED platform, and the wide range of available application-tailored optics, Villa LED gen2 delivers the right amount of light and in the right direction on your city, enabling further energy savings.

Lighting for different needs

Villa LED gen2 can also be equipped with our dedicated light recipe that preserves a dark night sky.

Ready for connectivity

The luminaire comes with one or two SR (System Ready) sockets, which makes the luminaire future ready. What this means is that Villa LED gen2 is ready to be paired with both standalone and advanced control and lighting software applications such as Interact City from Signify.

Improved maintenance

Each individual Villa LED gen2 luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, you gain instant access to the luminaire configuration, making maintenance and programming operations faster and easier, and enabling you to create your digital library of lighting assets and spare parts.



Family range

From residential streets up to the city center where heritage, ambiance and comfort lighting play an important role, for renovation and new projects, Villa LED gen2 family is a perfect solution. Thanks to its different mounting possibilities, installations vary from 4 up to 6 meter. Below an overview of the mounting possibilities and poles & brackets that are available.



Villa LED gen2
Post-top 3/4 or 1" G



Villa LED gen2
Suspended 3/4 or 1" G



Villa LED gen2
Post-top with spigot
Ø 60 / 76 mm



Villa LED gen2
Post-top with spigot and
flush transition part
Ø 60 mm

Dedicated and standard complete sets

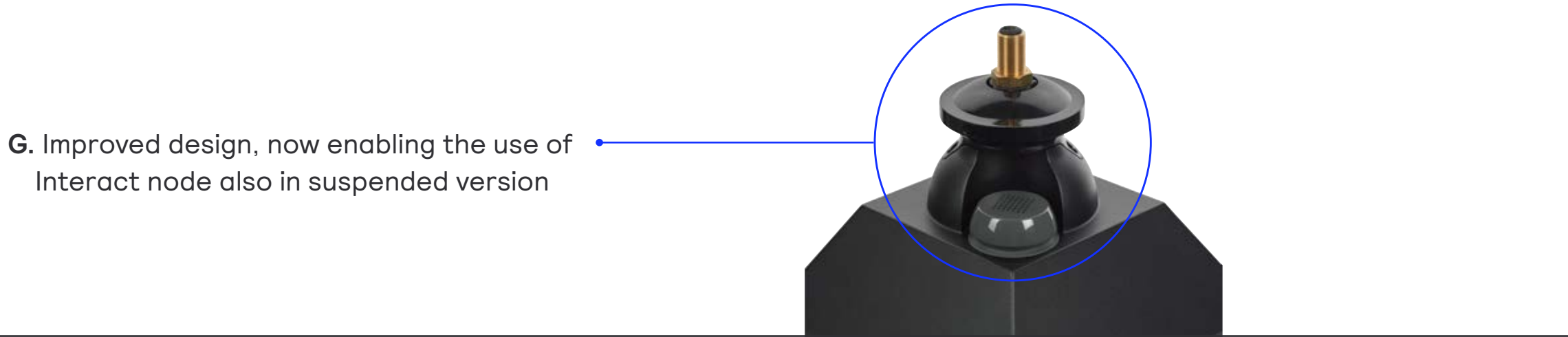


- 1 Villa LED gen2 + Accante pole 5.5m and Wy single arm bracket
- 2 Villa LED gen2 + Accante pole 5.5m and Wy double arm bracket
- 3 Villa LED gen2 + Accante pole 7.5m and Beaugency double arm bracket
- 4 Villa LED gen2 + Accante pole 5m
- 5 Villa LED gen2 + Accante pole 4m
- 6 Villa LED gen2 + Accante pole 7m and Wy double arm bracket
- 7 Villa LED gen2 + Wy wall mounted bracket

Design options and improvements

Choice between two spigot designs:

- Without flush transition part for standard poles (diameter 60 or 76 mm)
- With flush transition part for standard poles (diameter 60 mm) to embellish your complete set



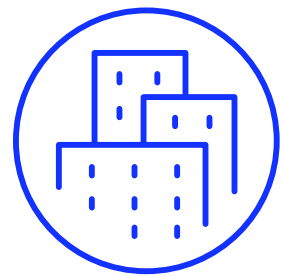
Application areas

In the heart of the city and beyond

Designed around our LEDgine optimized platform, Villa LED gen2 delivers outstanding levels of lighting and energy performance. Villa LED gen2 is part of our Urban Inspiration lighting portfolio with strong focus on the emotional values of lighting:

For every application in the city we do have several solutions to really inspire and enhance your city, while meeting your demands and beyond.

- Create ambiance
- Enhancing well-being
- Promoting tourism and heritage
- Increase the liveability in the city



City Center

- Side street
- Square, park and playground
- Cycle path and footpath
- Shopping and pedestrian area



Residential area

- Residential street
- Cycle path and footpath
- Square, park and playground
- Parking area



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 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.

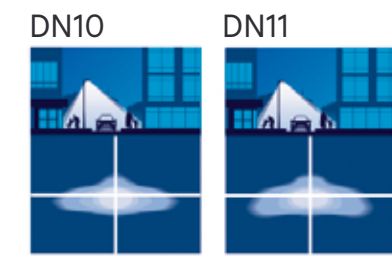
Standardized optics for the key application areas

Luminance classes (M)

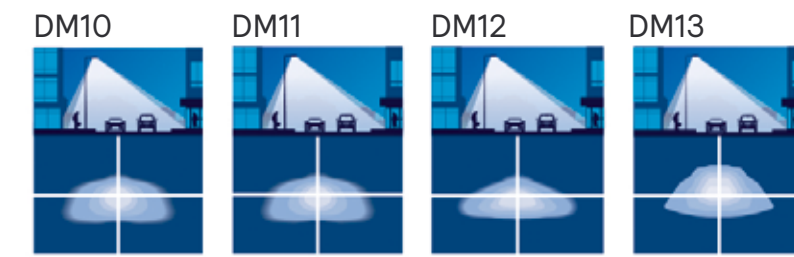
Extra narrow optics



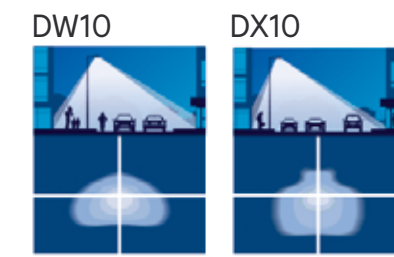
Narrow optics



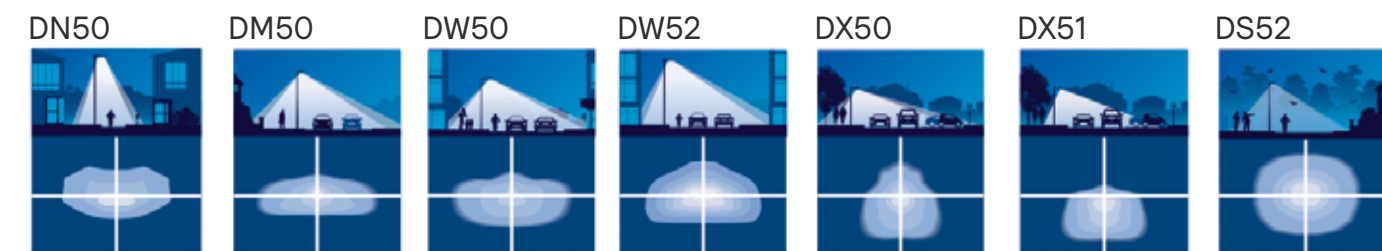
Medium optics



Wide and extra wide optics



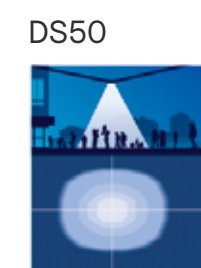
Illuminance classes (P,C)



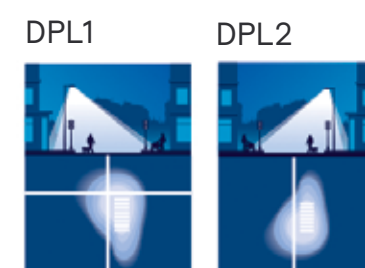
From narrow to wide geometries →

Distributions for dedicated applications

Square and park

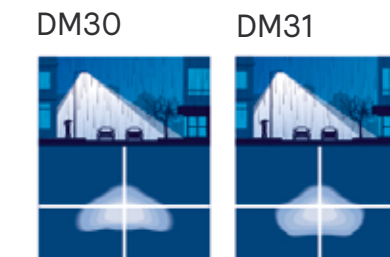


Pedestrian crossing

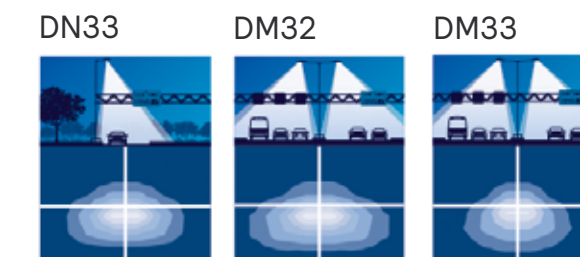


Distribution for special user needs

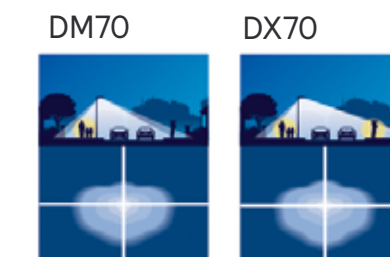
Wet roads



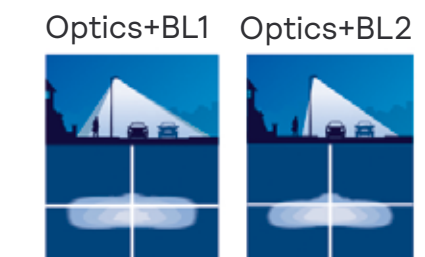
Comfort



Facial recognition



Light trespass prevention



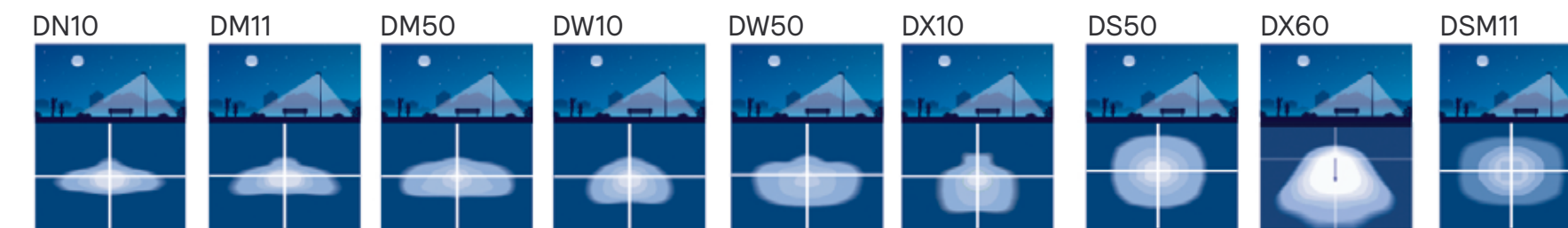
Catenary

Narrow to medium streets and roads

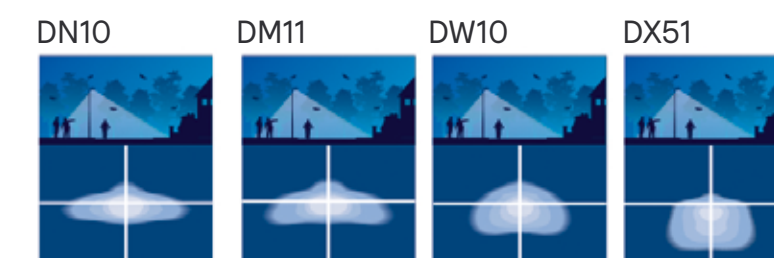
DM30



Night preservation



Biodiversity reservation



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).



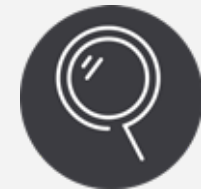
#2. Register the luminaire

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



#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.



#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, 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](https://www.signify.com/global/service-tag)

System ready architecture

The digital and smart city era is accelerating fast. To keep pace, cities need luminaires that are not only designed for today's technologies, but are prepared for future advances and upgrades. The System ready architecture gives you a scalable foundation that you can build on whenever your city is ready to opt into new advances in technology. So you can take light beyond illumination into a dynamic world of sensor-rich lighting – whenever you're ready.

Upgrade now or later

Villa LED gen2 is a System ready luminaire, coming with universal sockets on top of the luminaire, so all you have to do is click in controllers or sensors to activate new applications. That means you can install your luminaires today and mount controllers and sensors at a later date – without any hassle.

An open platform

Our System ready luminaires use state-of-the-art architectures and components. Because they are SR & ZD4i Certified, they are compatible with all components released in our SR program. This ensures you'll always be ready for the latest innovations that will enable you to get more out of your lighting infrastructure.



Future-proof upgrades

System ready luminaires can be paired with sensors and controllers now or later. A city solution that is completely flexible and scalable.



Plug and play

Designed for hassle-free installation, controllers and sensors can be mounted without opening the luminaire.



Aesthetic design

The small, unobtrusive form factor can be mounted discreetly on luminaires.



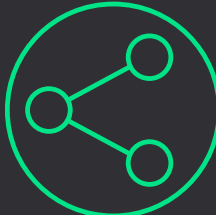
Standardized technology

Thanks to Zhaga standardization and the SR & ZD4i Certified program, you will have access to preferred technology, allowing you to make use of innovations from different suppliers.



Open innovation platform

Using this new System ready architecture gives you access to new innovations that could enhance your lighting even further in the future.



Flexibility

The Zhaga 4 Pin socket can be mounted on the top, of the luminaire, giving you the flexibility to choose from all sources of sensor applications. The IP66 rating also ensures there is no risk of water ingress.

Ready to be connected to Interact



Interact is a connected LED lighting management system which helps you improve services, enhance safety, beautify public spaces, encourage civic pride, and increase energy efficiency in your city. The system allows 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. Villa LED gen2 is ready to connect with Interact when you are.

For more information about Interact in cities visit:

www.interact-lighting.com/city



Get more value out of your lighting infrastructure

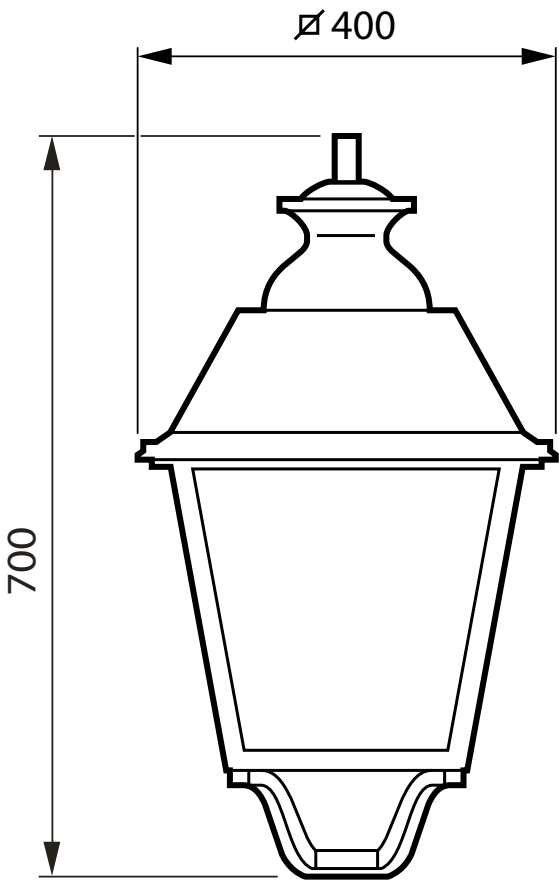
Control and monitor your street lighting remotely and immediately identify lighting failures using a single dashboard application. With full control of your city lighting you can identify opportunities for further energy savings by dimming, scheduling and zoning. Interact enables you to reduce CO₂ emissions, meet sustainability targets and reduce costs, enabling you to reinvest the savings into other areas of your city's infrastructure.

The Open API's of the system allows it to be integrated into your other city management systems and allows your existing partners or independent third parties to use it as a platform for future innovation.

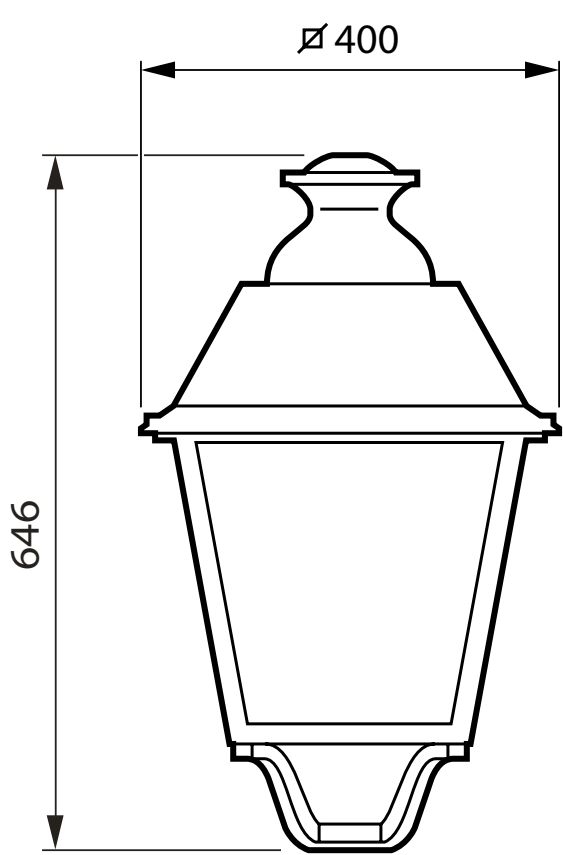


Dimensional drawings

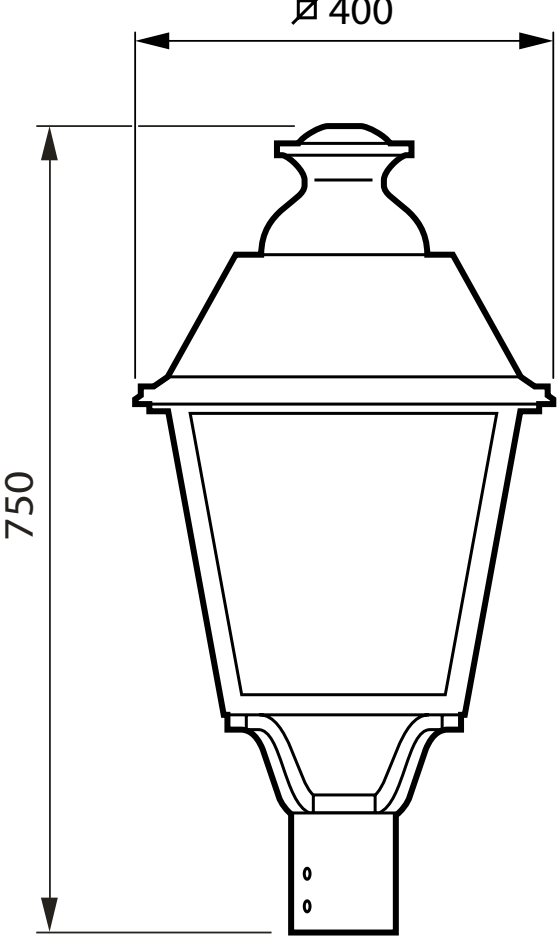
BSP768
Suspended
3/4" G - 1" G



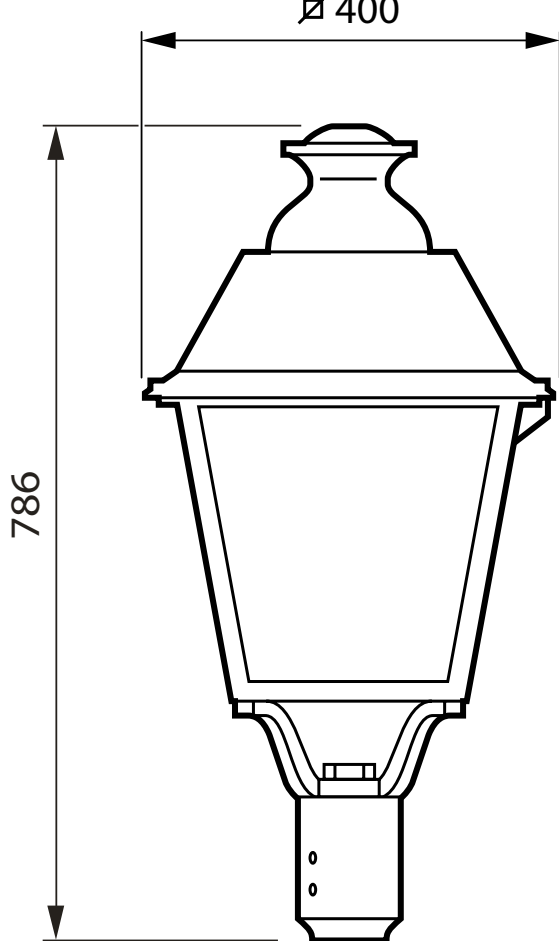
BDP768
Post-top without spigot
3/4" G - 1" G



BDP768
Post-top with spigot
Ø 60 / 76 mm



BDP768
Post-top with spigot
Ø 60 mm



Product specifications

Type	BDP768 post-top version BSP768 suspended version
Light source	LEDgine optimized platform
Power	WW: 9.6W – 76W NW: 9.1W – 69W
Luminous flux (depending on LED configuration)	WW: 560 – 9120 lm NW: 560 – 9240 lm
Luminaire efficacy	up to 144 lm/W
Correlated color temperature	2200K, 2700K, 3000K, 4000K
Color rendering index	>70
Light recipes	ClearStar
Lumen maintenance at median useful life*100,000 hrs	10%
Performance ambient temperature Tq	+25°
Operating temperature range	-40°C to +50°C
Remarks	At extreme ambient temperatures the luminaire might automatically dim down to protect components
Mains voltage	220-240V / 50-60Hz
Safety class	Class I, class II
Driver	Programmed LED drivers
Dimming	Stand-alone DynaDimmer DALI, Lunatone, mains dimming
Connectivity option	Interact, outdoor multisensor
Connectors	Nema, SR

Optics	Narrow, medium, wide or extra wide road optics: DN08, DN09, DN10, DN11, DN25, DN26, DN33, DN50, DM10, DM11, DM12, DM13, DM30, DM31, DM32, DM33, DM50, DM52, DM70, DW10, DW50, DW52, DW65, DX10, DX50, DX51, DX52, DX65, DX70, DS50, DS51, DPR-1, DPL-1, DSM2
Louvres	Dedicated louvres for backlight cut-off BL1, BL2
Installation	Top mounting for brass threaded spigot 3/4" G or 1" G Post-top mounting with spigot for pole Ø 60 mm or 76 mm Post-top mounting with spigot for pole Ø 60 mm with flush transition part Suspended mounting for brass threaded spigot 3/4" G or 1" G
Mounting height	3.5 m – 6 m
Material	Housing: high-pressure aluminum Flat glass: thermally hardened Optics: PMMA Sheets (x 4): PC
Color	Black 9005 Other RAL or AKZO Futura colors available on request
IP rating	IP66
IK rating	IK09 flat glass and PC sheets (x4)
Weight	9.4 kg
Max SCx:	0.2 m ²
Surge protection	6/8 kV (standard), 10 kV (optional)
Maintenance	Signify Service tag helps to identify the product and share all product information on the spot
Accessories	Brass balls, clear PC sheets (x 4), flush transition part for spigot and pole Ø 60mm
Warranty	5 years
Certification	RoHS, CE, ENEC, ENEC+
SR compatibility	The functional compatibility of two (SR-certified) components/sensors to be used in combination, as well as the override possibility of any line switch function in an SR-based luminaire, must be released by the master component/sensor supplier. For the use of a NEMA 7-pin socket on an SR-based luminaire, a full system verification is required. Failure to follow these guidelines may cause risk of damage and non-compliance, for which Signify cannot take any responsibility.

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

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

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

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:

[signify.com/installers](https://www.signify.com/installers)

[signify.com/specifier](https://www.signify.com/specifier)



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.com/partnership](https://www.signify.com/partnership)

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

 Signify



Official Lighting Partner



the meaning of light