

Signify

CityClassic gen2

A classic design, balanced for future-thinking municipalities

interact ready

LEDgine

A world of sustainability challenges

The world requires a healthy balance to keep people and planet in perfect harmony. Every day, human enterprise and endeavor puts increasing pressure on the planet, depleting resources and increasing harmful emissions. Our challenge is to turn back the clock and create a future where we have as little impact on the planet as possible. From protecting natural environments to reusing scarce materials and preserving dark skies.

Excellent performance, timeless appeal

The CityClassic gen2 family of luminaires offers the perfect balance between style and performance. A classic design with a clean, well-balanced look that has timeless appeal. But it's not just the minimalist look and feel that is attractive. With effortless connectivity options, CityClassic gen2 is an intelligent choice that is capable of harnessing the latest technologies. So it can also deliver excellent efficiency, intuitive operation and easy servicing and maintenance. A decorative asset that's a smart choice for any future thinking municipality.



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Designed for efficiency from fast installation to space-saving delivery

Quick and simple to install

Made for hassle-free installation, CityClassic gen2 has an IP connector in the spigot for mains connection, which eliminates the need to access the gear compartment, and a quick release button for rapid disconnection from the pole. It also offers the option of:

- Smooth pole spigot transitions through dedicated 60mm and 76mm spigot versions.
- Multi-functional spigots to fit all pole diameters, including an adaptor and mask to cover the gap if smaller diameter poles are chosen.

The robust design is tested to 3 G vibration and can withstand 40 G shocks for a secure, long, safe and reliable service life. If late stage programming is not possible or desired, the optional flux selection switch offers customers and trade partners the flexibility to select from four different flux settings, making each luminaire suitable for numerous application sites in a community.

Easy to service and maintain

No tools, no nonsense. With just two clips to open the gear cover, CityClassic gen2 makes servicing and maintenance a breeze. Two captive screws are within easy reach and individual components are screwed onto the gear tray, making it easy to replace or remove for servicing. Plus plug socket connectors make it simple to separate and access parts. Online options like the Service tag app also make troubleshooting and ordering spare parts quick and simple, as well as replacing and configuring parts like drivers, using near field communication, in the field.

Efficient shipment and delivery

Each luminaire box includes an individually-packaged canopy and four screws for easy and secure installation to the luminaire. This reduces the amount of space required for lorry transportation and warehouse storage as four times more products will fit on a pallet. This saves on carbon miles and lowering the overall carbon footprint of CityClassic gen2.



In tune with the needs of the smartest cities

The CityClassic gen2 is an attractive family of luminaires with high quality light that can be tuned to the exact needs of each city application. It offers a choice between two standardized light engines: LEDgine optimized offers best-in-class performance with a variety of lens optics and has the option to integrate GentleBeam to maximize visual comfort; ClearGuide is unique in the lighting marketplace and delivers the highest decorative effect at the same time as optimizing vertical illumination and visual guidance.

Once the right optics have been selected, the desired version of the luminaire, being CityClassic, CityClassic small or the Torch version, then can be further tailored with L-Tune to dial flux levels up or down to achieve the optimum energy saving and energy efficiency for a wide range of applications.

CityClassic gen2 is a future-proof solution too. The Signify Service tag app provides maintenance and spare part information from the moment the lighting is installed. The Zhaga connector on top of each luminaire can be paired with controls, or already chosen to be prepared for future use when municipalities are ready to invest in smart lighting technologies like Interact City. That makes CityClassic gen2 infinitely upgradable and easy to service and maintain to the highest standards.

Style and performance in perfect harmony



A modular concept

The family is designed around a flexible, modular concept based on two heights and two large canopy sizes, or a torch option without a canopy. Each is specifically designed to preserve the perfect proportions of the luminaire. The canopy is painted in a single color as standard, but a bicolor option with a white painted underside can also be requested. When using LEDgine optimized, the range is also easy to retrofit with GentleBeam and/or a backlight louvre.

Designed for dark skies

Where a minimum Upward Light Ratio (ULR) is required, for natural zones or strict environmental reasons, specific CityClassic gen2 models are the perfect options. These PCN versions feature black arms and a spigot mask, and have a sharper cut-off light distribution to minimize the impact on the environment and dark sky.

Family range — flexible and modular



BDP510



BDP511
torch



BDP512



BDP513
torch



BDP520
Clearguide



BDP521
Clearguide torch



BDP522
Clearguide



BDP523
Clearguide torch



BDP510
white canopy



BDP512
white canopy



BDP520 Clearguide
white canopy



BDP522 Clearguide
white canopy



BDP510
extreme low ULR



BDP511 torch
extreme low ULR



BDP512 extreme
low ULR



BDP513 torch
extreme low ULR

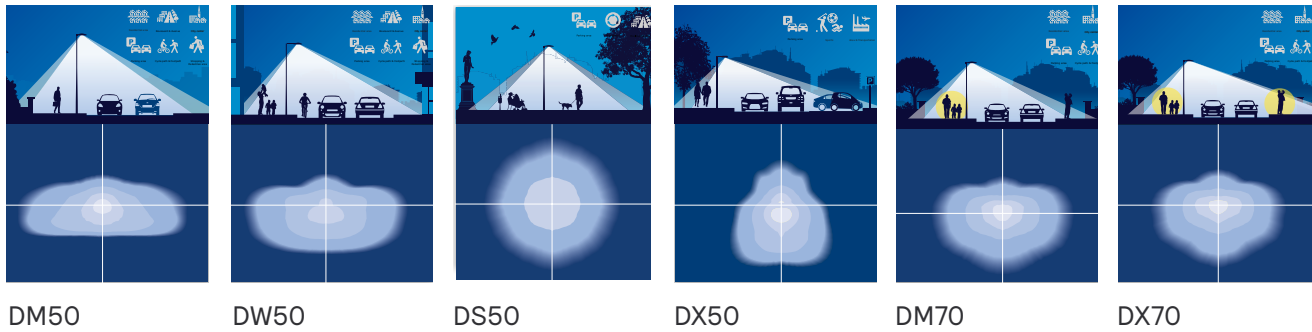


Lighting performance when it matters most

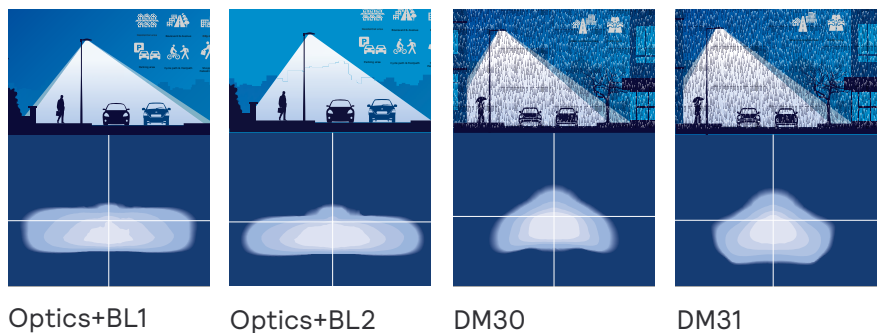
With a choice of LED light engines and optics, you can ensure that you always have the right amount and direction of light on your city streets.

Portfolio of optics

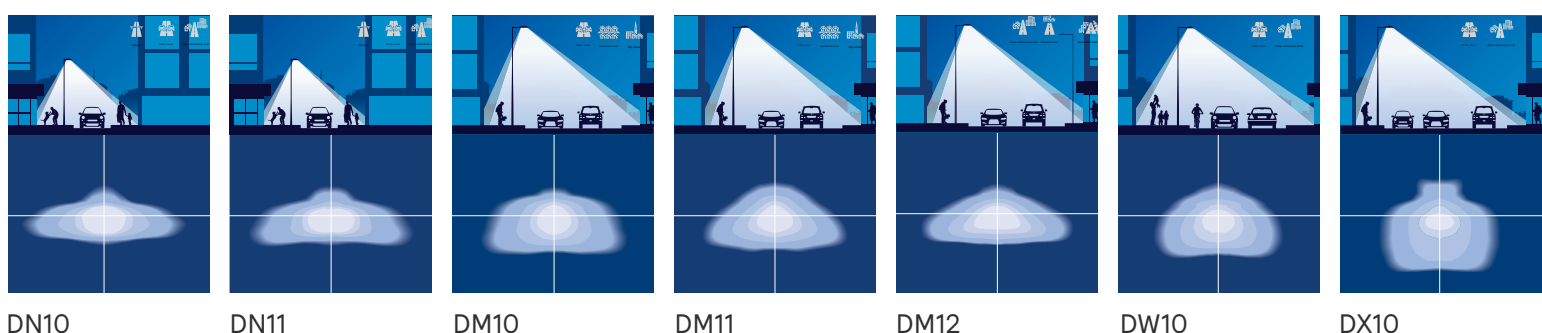
Illuminance classes (P, C)



Dedicated applications



Luminance classes (M)



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.



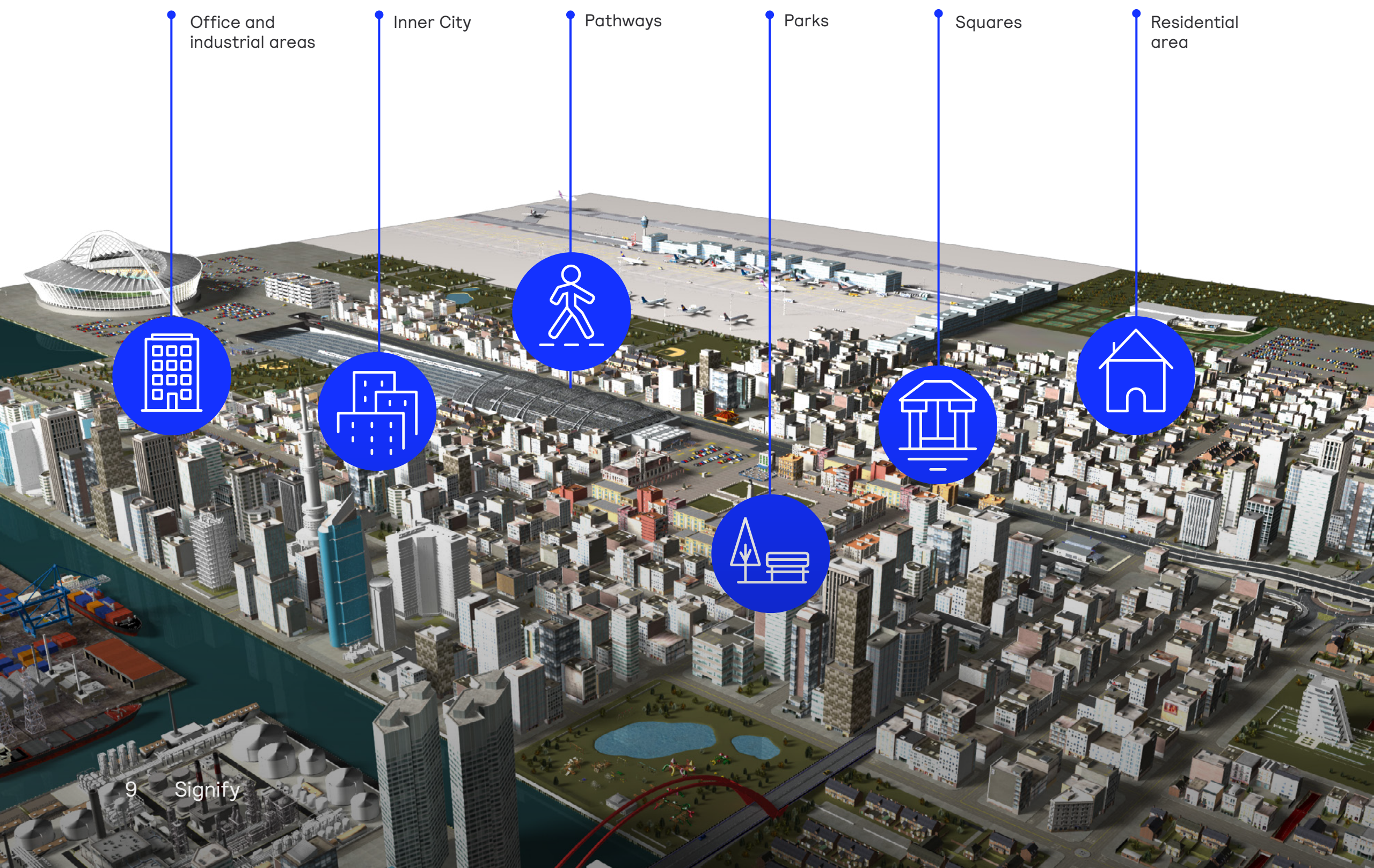
Application areas

Whether specified for new installations or as a 1:1 retrofit, CityClassic gen2 is well suited to residential areas, parks, squares and pathways as well as private spaces near offices, campuses or parking areas.

The built-in standardized LEDgine optimized optics allow an array of different distributions. Together with the various dimming and control options, you can easily create the right lighting scenario for each application.

For high decorative scenario's the unique ClearGuide light engine version can also be chosen, enriching the atmosphere.

The CityClassic gen2 application areas include:



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.



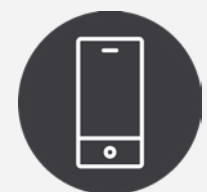
How it works

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).



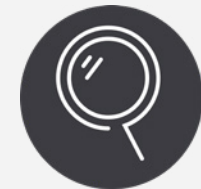
#2. Register the luminaire

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

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

CityClassic 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.



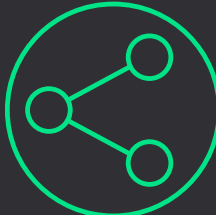
Standardized technology

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. CityClassic gen2 is ready to connect with Interact when you are.

For more information about Interact in cities visit:

www.interact-lighting.com/city



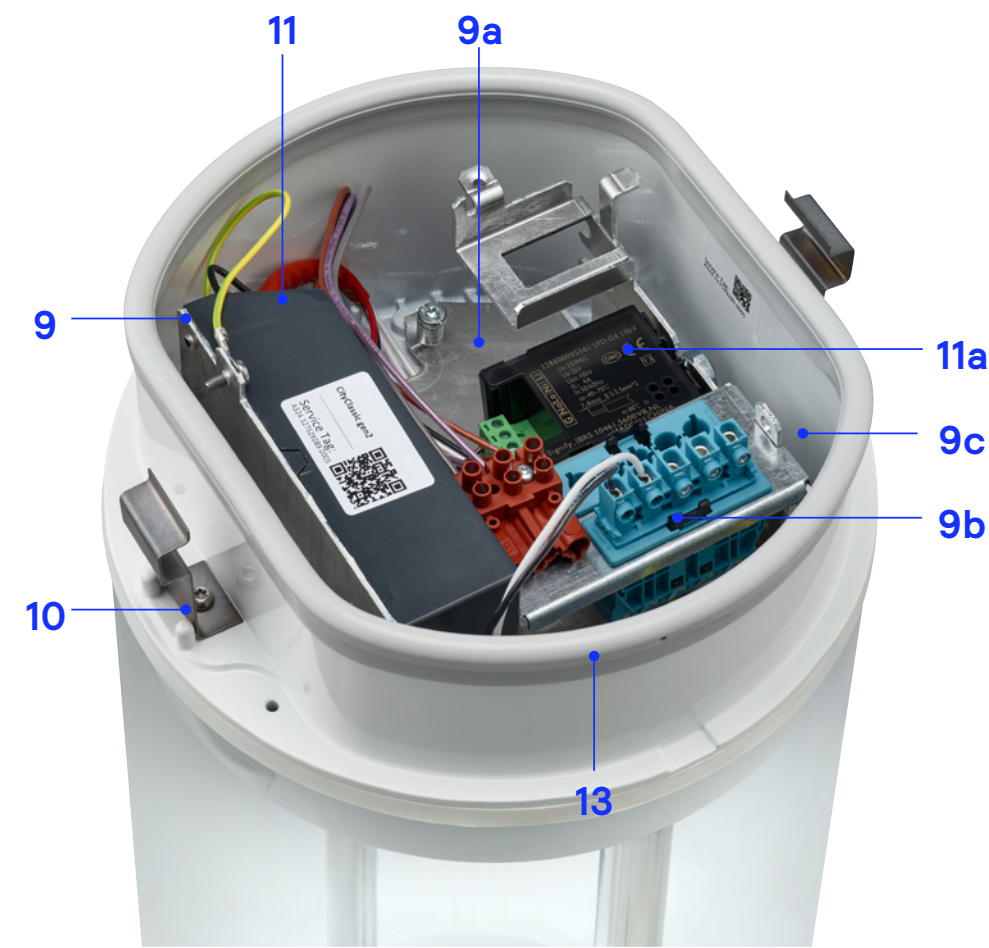
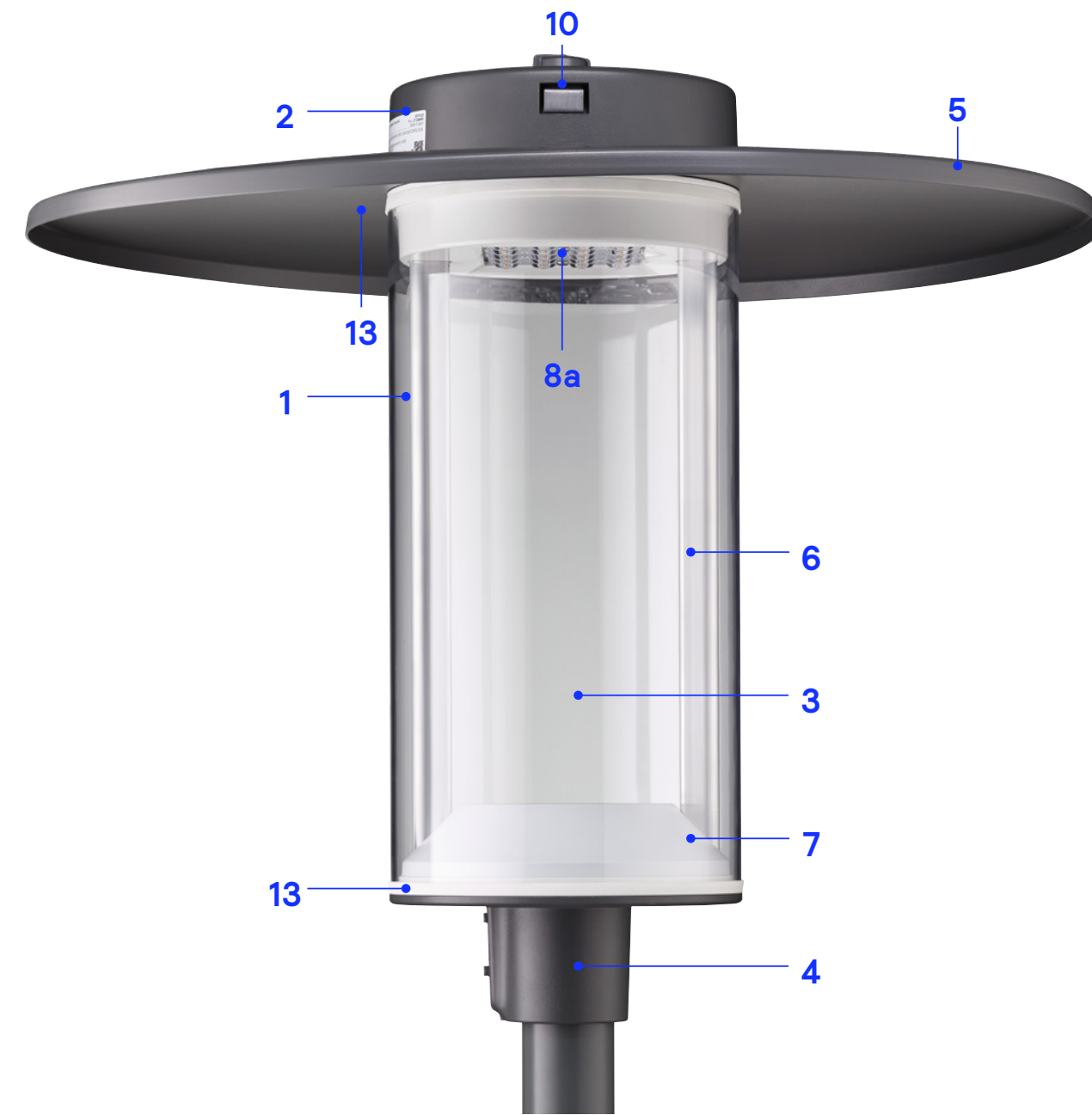
Get more value out of your lighting infrastructure

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.



Technical components



4a



Adapter with mask

6a + 7a



PCN, low ULR

8b



ClearGuide light engine

8c



GentleBeam

8d



ClearStar

11b



Interact City OLC

12



IP connector

- 1 **Frame:** die-cast aluminium, powder coat painted in RAL 9016 white, carrying the gear tray and light engine.
- 2 **Gear cover:** die cast aluminium, powder coat painted in Ultra dark grey. Selection of other (RAL) colors on demand. Marine Salt Protection (MSP) on request. The gear cover is secured by two, toolless to use, clips (10).
- 3 **Cylinder bowl:** UV stabilised extruded clear polycarbonate, IK10 impact protection.
- 4 **Spigot:** die cast aluminium, powder coat painted in Ultra dark grey. Selection of other (RAL) colors on demand. Marine Salt Protection (MSP) on request. Post top spigot size Ø62 or 76mm, 76mm with option of added adapter ring and mask to also suit 60mm (4a). Fixation to the pole by 2 stainless steel bolts M8.
- 5 **Large canopy:** spun aluminum, powder coat painted in Ultra dark grey. Selection of other (RAL) colors on demand. Marine Salt Protection (MSP) on request. Packaged separate in the box, fixation to the housing using four screws (contained in the box).

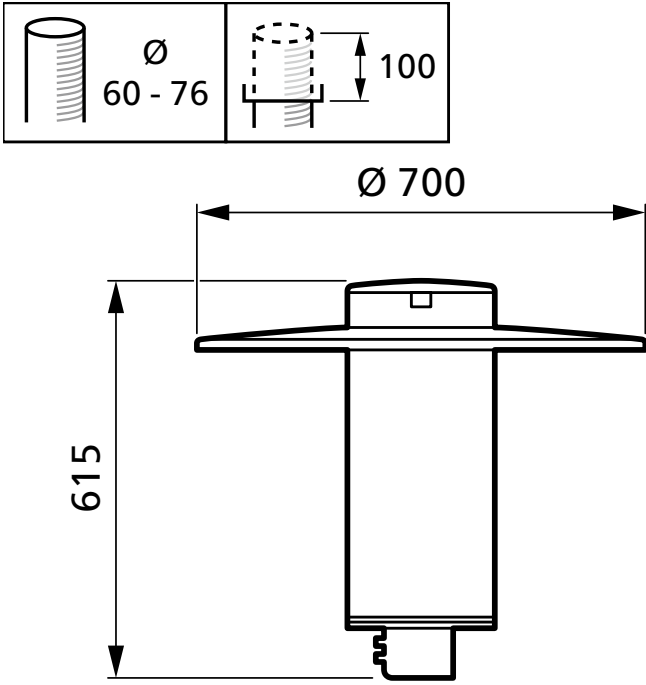
- 6 **Internal arms:** extruded aluminium, providing stiffness to the sandwich construction, containing internal wiring from spigot to gear compartment. Standardly unpainted, but in PCN versions painted in RAL 9005 black (6a).
- 7 **Spigot cover:** UV stabilised polycarbonate, standardly in RAL 9016 white, but in PCN version in RAL 9005 black (7a).
- 8a **Light engine:** attached to the gear tray. Standardized LEDgine optimized modules, 6, 10 or 20 LED, in 3000K or 4000K light color standard and option for 2700K or 2200K. Over 20 standardized LEDgine optimized lens optics are available to tailor the best distribution for the application in hand. Optional internal louver (8b) for obtrusive back light available as part of the total LEDgine optimized concept. Gentlebeam cover (8c) available for increased lighting comfort. The louver and Gentlebeam can also be combined and are easy to add at any point in time. Special optics in ClearStar (amber) (8d) as optional choice available.

- 8b **Light engine Clearguide:** attached to the gear tray. Standardized light engine, 15 LED, in 3000K. Either with a round symmetric or asymmetric distribution.
- 9 **Gear tray:** sheet aluminium, containing the driver and other electronics for long lasting operation. At the bottom side, the light engine is installed. The entire tray can be released and taken out complete by loosening two captive screws (9a). Removing the gear tray allows quick and easy addition of either the back light louver, Gentlebeam for increased lighting comfort or both. Plug and socket connectors to easily disconnect internal wiring from gear cover and towards mains power connection (9b). For maintenance, the gear tray can be exchanged as a whole, but components can be serviced and exchanged individual as well. The retention wire of the gear cover, is clipped with a carabiner hook on to the gear tray (9c).
- 10 **Clips:** in stainless steel, zinklad coated, allowing toolless opening and closing for easy service and maintenance.

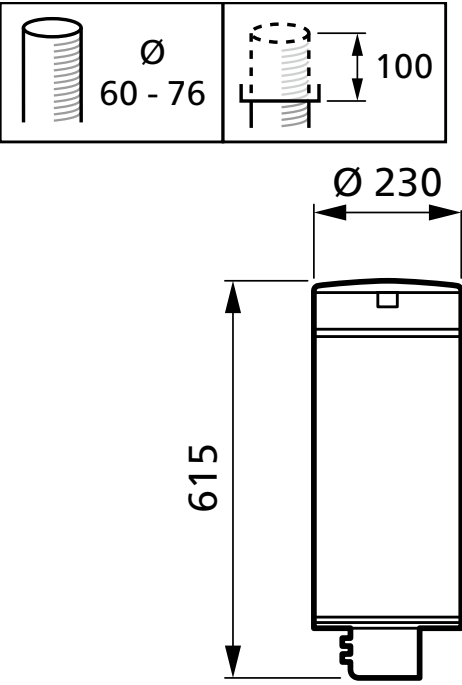
- 11 **Electrical components:** Programmable driver (11), Basic Prog, Lite Prog, Full Prog, coded mains or System Ready, allowing stand alone operation, including Dynadim and CLO, group control or connected individual light point control. Optional added 10kV surge protection (11a), optional Zhaga SR top socket for (future) smart city, e.g., Interact City (11b) connected lighting or optional 5 or 7-pin top Nema socket.
- 12 **Mains connection:** in the spigot, using an IP rated connector, easy to connect and easy to disconnect through the integrated green quick release button.
- 13 **Gaskets:** to seal luminaire to IP66, between spigot and bowl, between frame and bowl, between frame and gear cover.

Dimensional drawings

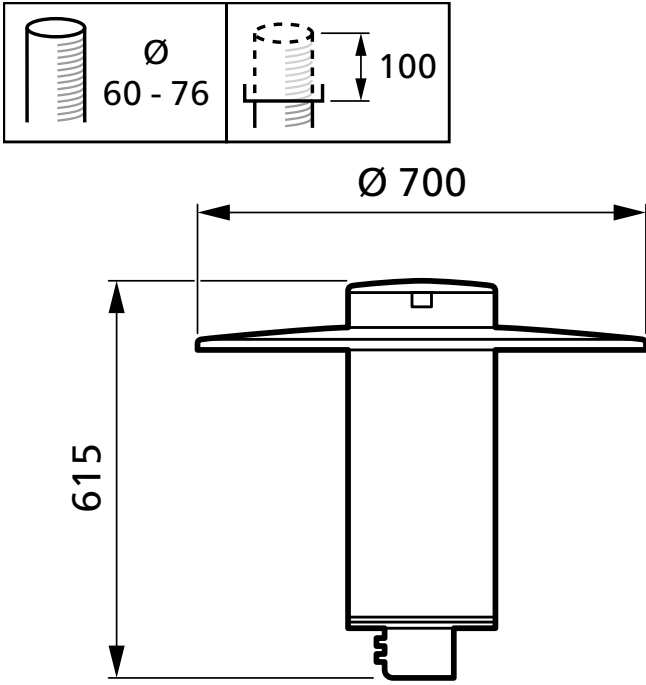
BDP510



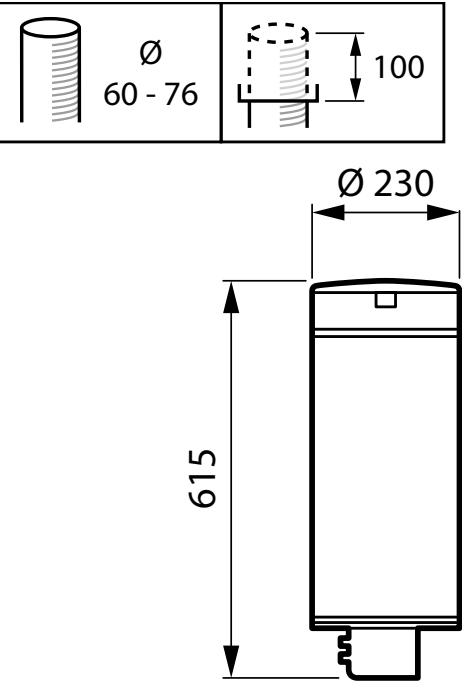
BDP511 torch



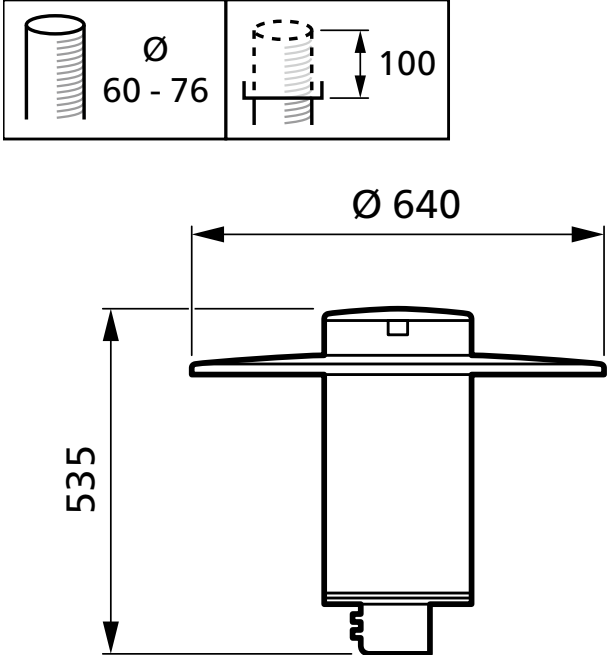
BDP520 Clearguide



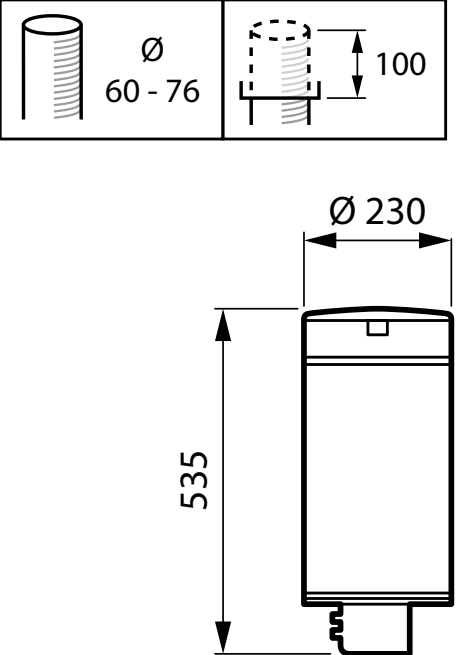
BDP521 Clearguide torch



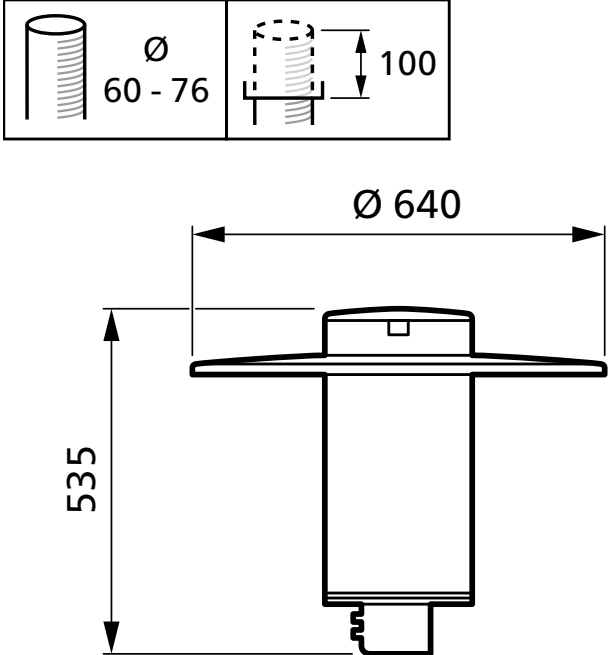
BDP512



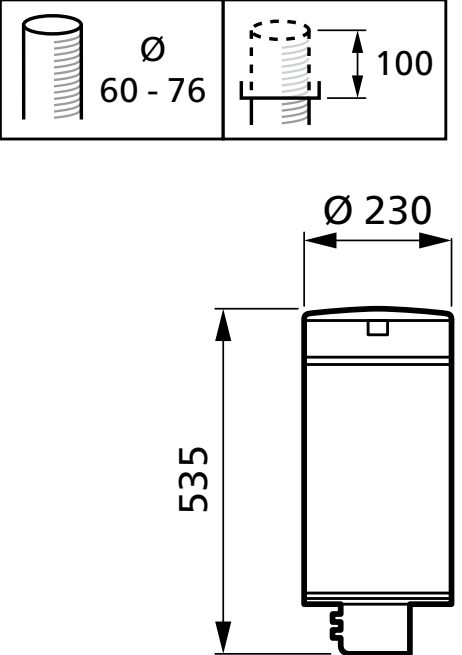
BDP513 torch



BDP522 Clearguide



BDP523 Clearguide torch



Product specifications

Type	BDP510: CityClassic gen2 (mono or bi-color large canopy) BDP511: CityClassic gen2 Torch BDP512: CityClassic S gen2 (mono or bi-color large canopy) BDP513: CityClassic S gen2 Torch
	BDP520: CityClassic plus gen2 (mono or bi-color large canopy) BDP521: CityClassic plus gen2 Torch BDP522: CityClassic S plus gen2 (mono or bi-color large canopy) BDP523: CityClassic S plus gen2 Torch
Light source	CityClassic gen2: Integral LEDgine optimized 6, 10 or 20LED CityClassic plus gen2: Integral ClearGuide Symmetric or asymmetric
System power	CityClassic gen 2: between 6 and 40W depending on LED count and color temperature CityClassic plus gen2: between 16W and 32W depending on flux and color temperature
Luminous flux (source flux)	LEDgine optimized: LED8/10/12/14/16/18/20/22/24/27/30/35/40/50/60 ClearGuide: CG20/25/30/40
Luminaire efficacy (system flux)	LEDgine optimized 740: between 120 and 145, depending on flux LEDgine optimized 730: between 115 and 135, depending on flux ClearGuide 740: between 108 and 111, depending on flux ClearGuide 730: between 103 and 107, depending on flux
Optics	Distribution Round Symmetric: DS50 Distribution Narrow: DN10, DN11 Distribution Medium: DM10, DM11 DM12, DM32, DM33, DM50 Distribution Wide: DW10, DW50 Distribution Extra Wide: DX10, DX50, DX52
Optical option	Back light control louver BL2 (not for DS50 or DX50)
Controls system input	DALI or SR
Dimming	LineSwitch, DynaDimmer, LumiStep, CLO
Connectivity	Interact City (SR)
Material	Spigot, frame, top cover: high-pressure die-cast aluminium Large canopy: spun aluminium Bowl: impact resistant UV stabilized polycarbonate Arms: extruded aluminium
Color	Standard ultra dark grey (DGR), Akzo Gris Sable 900 (GR-900) or Ral 7035 (GR) matt finish
Color option	Limited number of (RAL) colors Bi color large canopy (underside white)
Ingress protection	IP66
Impact protection	IK10

Correlated color temperature	740: 4000K 730: 3000K 727: 2700K 830: 3000K 518: 1800K (ClearStar) 420: 2000K (ClearStar)
ETO option correlated color temperature	722: 2200K 827: 2700K 840: 4000K 757: 5700K
Color rendering index	70 or 80
Maintenance of Lumen output at 100,000 hours	Between L90 and L98 depending on flux and light color
Operating temp. range	-40 up to +50 °C
Driver	Integrated programmable LED driver
Power/data supply	Xitanium, BP, LP, FP or SR
Mains voltage	220-240V / 50-60 Hz
Options	Constant Light output (CLO), also possible in combination with dimming and connectivity options Electrical safety Class II Added 10kV surge protection device Factory fitted cable Mini Photocell for SR socket Interact City Comfort GentleBeam cover for LEDgine optimized Back-light louvers BL1 or BL2
Maintenance	Opening/closing: by 2 stainless steel clips. All components contained in the frame on a gear tray
Installation	Post-top mounting: Axial entry Ø 60 or 76mm Connection: IP connector in spigot 2 x M8 mast fixation bolt Recommended mounting height: 4 to 6 meters SCx: BDP510/520: 0.66m ² , BDP512/522: 0.56m ² , BDP511/521: 0.29m ² , BDP513/523: 0.26m ²
Cable entry	IP connector, cable Ø 6-12mm
Accessories	Spigot adapter ring from Ø 76mm to Ø 60mm with bolts

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:



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



the meaning of light