PHILIPS

Metropole LED gen2

Urban lighting

Metropole LED gen2

Elevate your city with soft, comfortable lighting. The urban luminaire that blends eye comfort with a sophisticated aesthetic.

a lighting brand by **⑤ignify**

Create a comfortably lit urban environment that respects nature while harmonizing with the minimal aesthetic of Nordic cities

As cities continue to grow and evolve, there is an increasing need to convert public areas into ideal settings for urban social relations. Urban lighting should not only ensure safety but also enhance comfort and ambience without causing excessive impact on nature and the environment. At Signify, we understand the importance of creating solutions that match each city's unique life and identity.

We designed Philips Metropole LED gen2 to create inviting urban environments. It balances comfort and unobtrusive lighting in a discreet design and emits a pleasant, soft glow that avoids glare and elevates the atmosphere of any outdoor space.

Originally designed 25 years ago, Philips Metropole has been rejuvenated with a modern and minimalistic design. The new version features a contemporary look that meets the needs of today's cities and towns.

The post-top design of the luminaire has been carefully crafted to limit excessive impact on the environment and nearby residents, while also taking into account the principles of circularity.
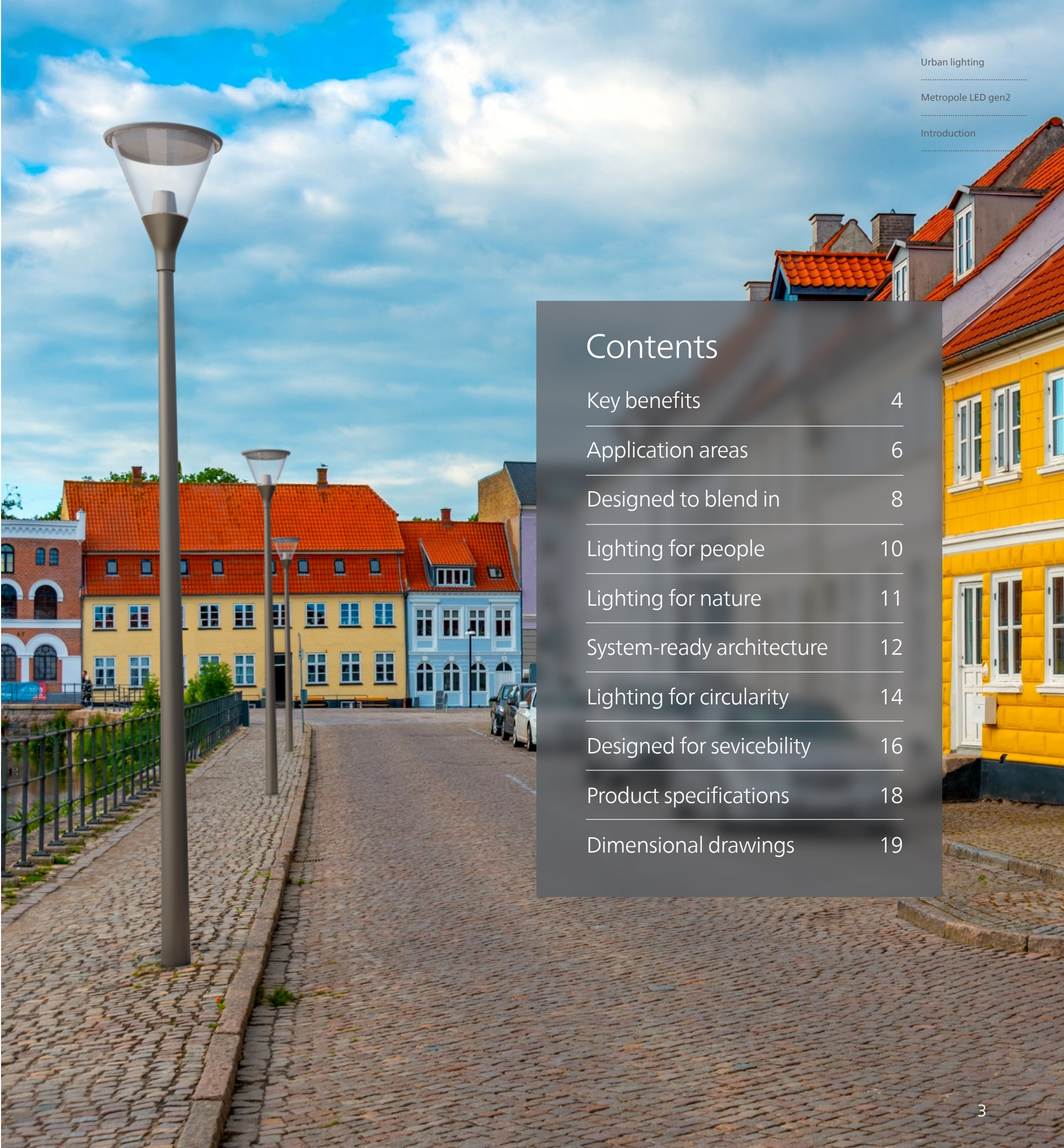
Contents

Key benefits

Clean, minimal design

Blends in with the Nordic aesthetic, and creates a cohesive environment with the surrounding architecture.

Soft, comfortable, glare-free light

Excellent perceived lighting comfort with low glare, as the light is indirectly generated and uniformly directed downward.

Respectful of people and nature

Reduces upward light emissions to 5,5%, helping to preserve the darkness of the night sky. The louver accessory prevents light from spilling into nearby residences.

Designed with the circular economy in mind

Long lifetime and high quality, light source that's system-ready,upgradeable and serviceable during its operational life. Aluminum parts made of 88% recycled materials.

Application areas

Metropole LED gen2 caters to the diverse needs of urban spaces, making it a suitable choice for city centers and residental areas.

Residential streets
- Improves liveability

Bike and pedestrian paths
- Enhances well-being and security

Open spaces and public squares
- Promotes tourism and safety
- Creates pleasant meeting places

Parks and plazas
- Creates safe and inviting gathering places
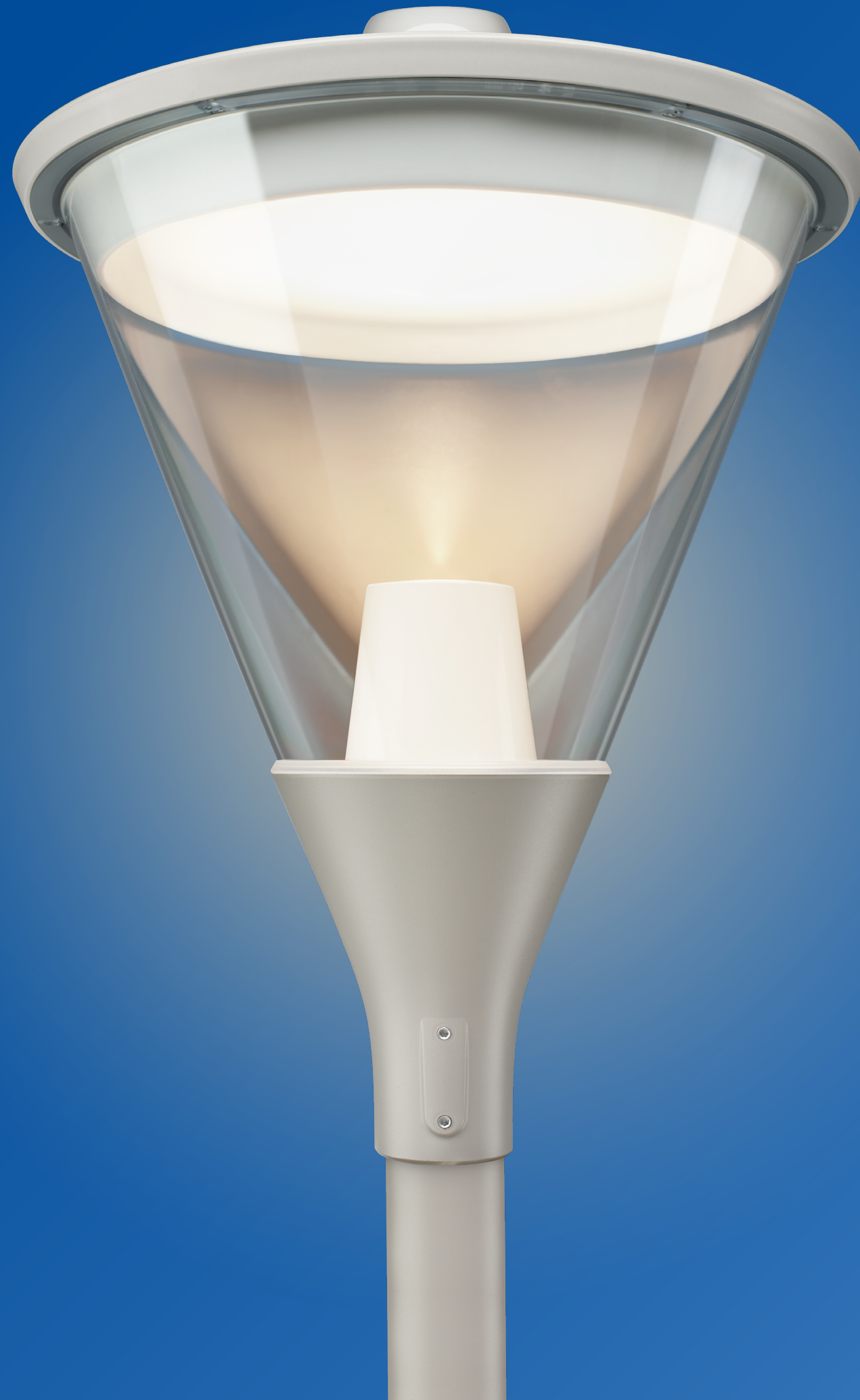
Designed to blend in

The Metropole LED gen2 urban luminaire was redesigned to adhere to a discreet Scandinavian design aesthetic. The outline of the bowl shape is simplified to create a more modern look. The connection of the spigot has an aesthetically pleasing line with the pole, creating a clean, sleek profile.

• Modern profile with flat canopy

• Minimal, streamlined design connecting spigot to the pole

• Same bowl dimensions as the original Metropole

• Blends in seamlessly with existing luminaire infrastructure and surrounding architecture

Lighting for people

Comfortable lighting without glare

Light must not only illuminate and provide a sense of safety for people, but it must also be pleasant and glare-free. Excessive and uncontrolled brightness can be uncomfortable or even disabling.

The Metropole LED gen2 urban luminaire is designed for comfortable lighting, emitting indirect, symmetrical, glare-free light from a source hidden at the bottom of the bowl. The light is directed downwards by a top reflector, reducing light pollution and ensuring that the light is directed exactly where it's needed. The top reflector also helps with uniform light distribution, resulting in a soft, comfortable light that's easy on the eyes.

For the benefit of pedestrians and cyclists, the luminaire offers the best performance in terms glare index class (D6), and limits luminous intensity to G*3.*

*Assuming symmetrical distribution, 3.5 m mounting height, and 6 m road width
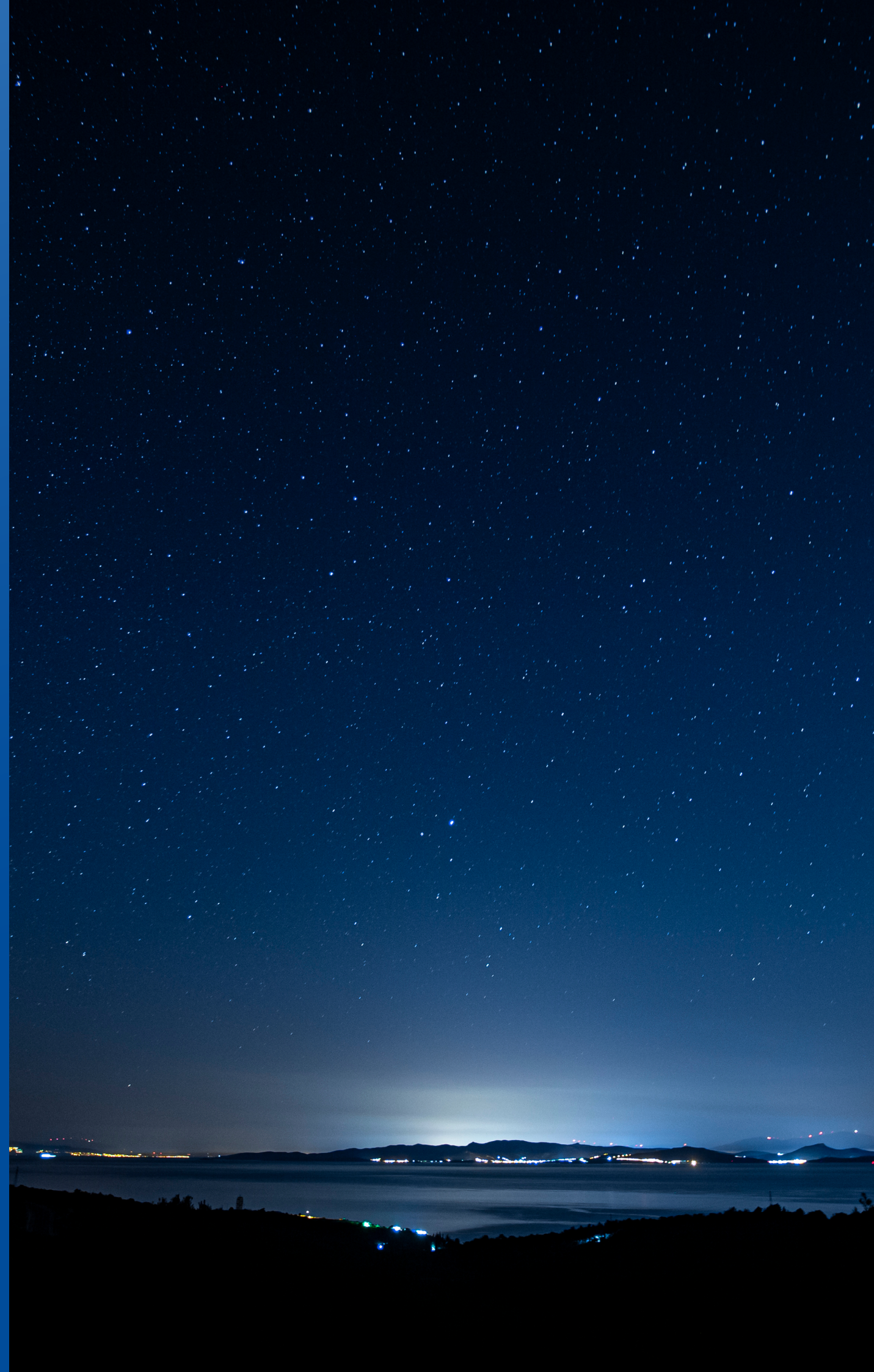
Lighting for nature

Reducing the impact of lighting on the dark night sky

Instead of darkness above us, the night sky has become illuminated. Skyglow wastes energy, and negatively impacts human circadian rhythms and animals that use moonlight and starlight for orientation.

To preserve the darkness of the night sky, the upward lighting ratio of the luminaire is kept below 6%. A light accessory directs the light only where it is needed, eliminating light spilling into residents' homes and gardens.

The Metropole LED gen2 post-top luminaire is available in warm color temperatures, which reduce disturbance to nocturnal wildlife, ensuring that the luminaire provides high-quality light while respecting the surrounding environment.
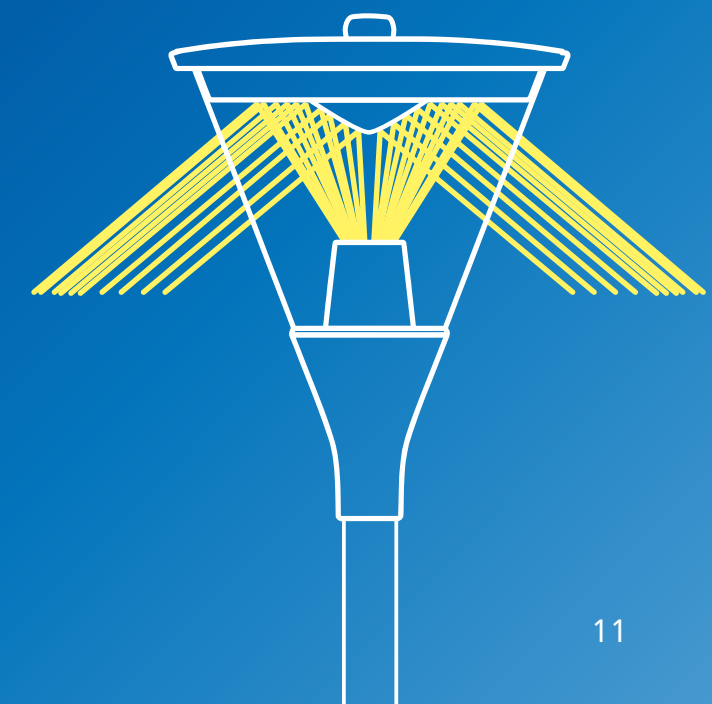
System-ready architecture

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
Metropole LED gen2 is a system-ready luminaire, with universal sockets on each 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.

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.

Metropole LED gen2 is ready to connect with Interact when you are.

For more information about Interact in cities visit:
www.interact-lighting.com/city

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.

Standardized technology
System-ready luminaires can be paired with sensors. 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.

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.

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 CO_2 emissions, meet sustainability targets and reduce costs, enabling you to reinvest the savings into other areas of your city's infrastructure.

Open APIs allow you to integrate your lighting system with other city management systems and allow your existing partners or independent third parties to use it as a platform for future innovation.
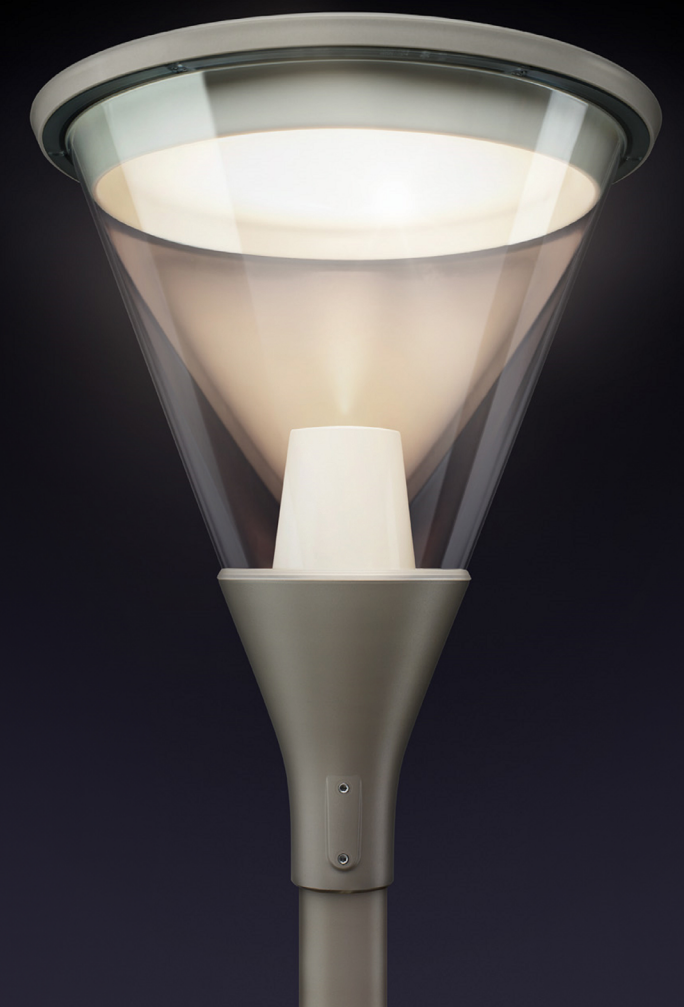
Lighting for circularity

Designed with the **circular economy in mind**

At Signify, our purpose is to unlock light's extraordinary potential for a brighter future and a better world. Helping to further develop the circular economy is a good place to start.

Our lighting for circularity products, services and systems can help to reduce environmental impact and enhance liveability in the city at the same time.

Products

Luminaires and components use renewable materials, offer high energy efficiency and long lifetime, and are easy to maintain, repair, upgrade, and replace.

Services

Includes everything from design and build, to operation and maintenance to ensure sustainable investments and operations.

Systems (Interact)

Smart lighting systems can have a great impact on the environmental performance of your lighting, e. g. remote monitoring of lighting assets.

+ Lighting for circularity systems
+ Lighting for cilcularity services
Lighting for circularity products
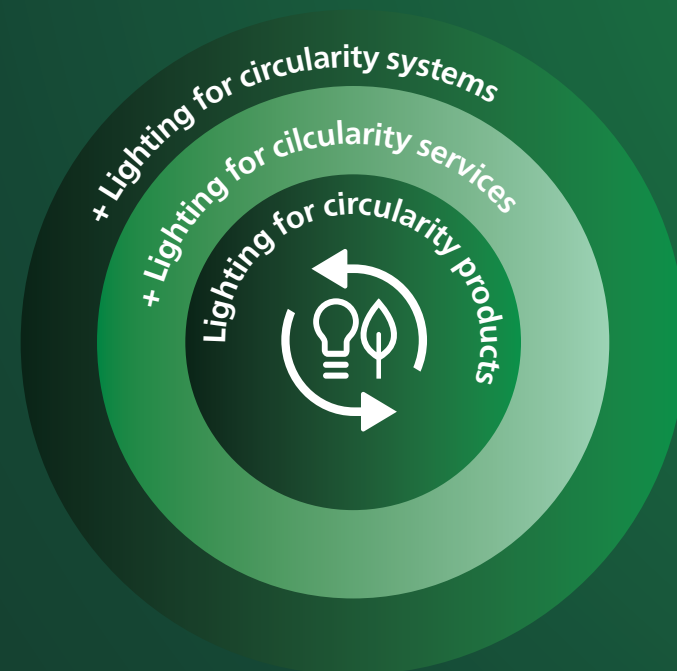
- The Metropole LED gen2 has a lifetime of up to 100,000 hrs

- The luminaire is upgradeable and serviceable during its operational life

- The luminaire can be dismantled at the end of life and parts recycled

- Aluminum parts are made of 88% recycled materials

- Metropole LED gen2 is also available with a top Zhaga-D4i (ZD4i) system-ready socket and is therefore ready to pair with advanced lighting management systems such as Interact

Designed for
seviceability

Easy to service thanks to the Service tag, a unique QR-based identification system that appears on individual luminaires and their packaging.

Service tag:
- Simplifies installation and servicing
- Provides 24/7 access to luminaire and spare parts information
- Allows on-the-spot driver reprogramming

Metropole LED gen2 is system-ready, which means it can be paired with existing and upcoming control and lighting management solutions such as Interact.

Service tag saves time and avoids human error

Why
Service tag?

Easy access to relevant information

Improves installation process by providing easy access to product configuration information

More effective maintenance

Enables more effective maintenance operations by identifying spare parts
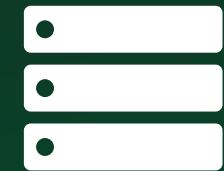
Digital maintenance

Allows you to pre-program spare parts to factory settings

Instant access to procedures, spare parts lists, and programming

Service tag features a QR-based identification system that gives you instant access to critical information during unpacking, installation, diagnostics, fault reporting and programming. Simply scan the tag with a smartphone or tablet running the Signify Service tag app, and you can access information about the contents of the box and troubleshooting details specific to the luminaire. Service tag also allows you to source spare parts and restore factory settings in the field. It's that simple.

Luminaire

Box

Pole where luminaire is installed

Product specifications

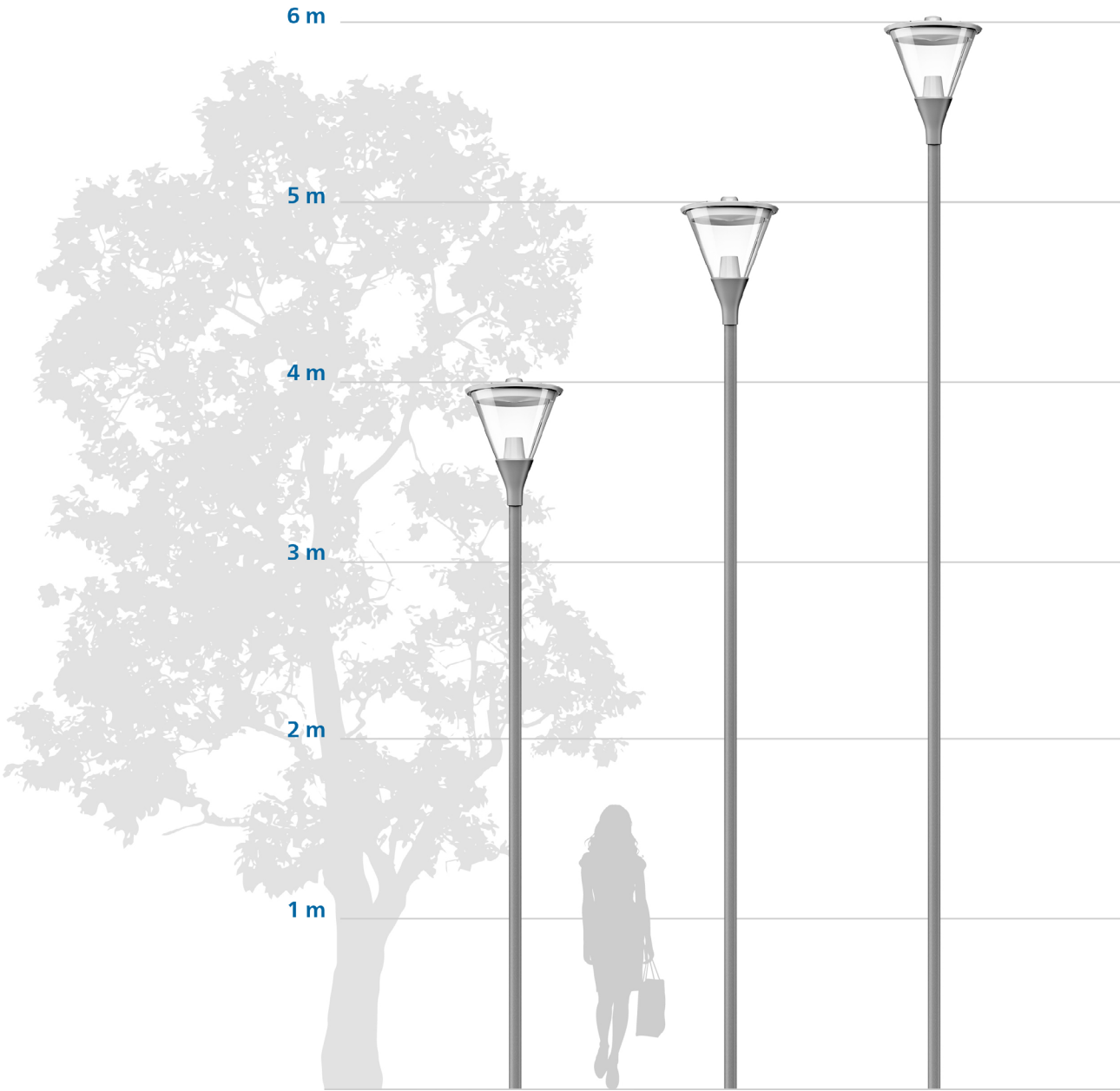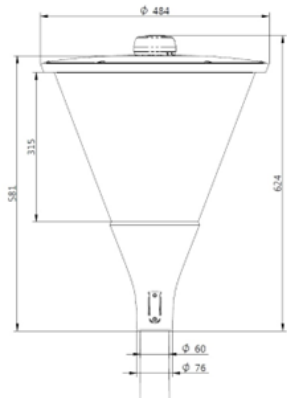|	
Type	BPS430 Metropole LED gen2
Light source	Built-in COB-module
Luminous flux ranges	400 – 4000 lm (system)
Luminaire efficacy	Up to 118 lm/W
Correlated Color Temperature	2200K, 2700K, 3000K, 4000K
Optics	Symmetrical, Asymmetrical (with shield)
Glare index class (D class)	D6 @ 1000, 2000, 3000 lm
Luminuous intensity class	G*3
Useful life	100,000 hours min L90 at 25°C ambient temperature
Lighting output ratio (ULR)	5.5% (symmetric)
Constant light output	Yes
Driver	Programmed LED drivers
Dimming	Lumistep, DynaDimmer, DALI, Coded Mains, Line Switch
Connectivity option	Interact (Zhaga GPRS and RF node)
Connectors	SR Top socket
Classification	Class II, IK10, (SR- IK09), IP66
Installation	Post top Ø 60 mm, recommended mounting height: 4-6m
Weight	6kg

Optical distributions:

Symmetrical
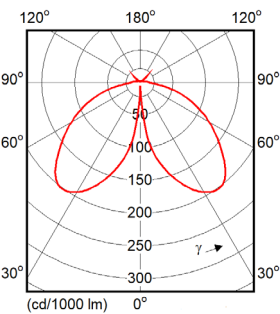
Asymmetrical with shield
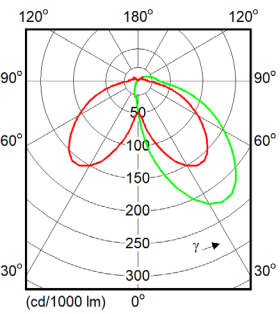
Dimensional drawings

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lighting.philips.com