



# UrbanFlex

Uniform design and quality of light,  
flexible use



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# UrbanFlex

Uniform design and quality of light, flexible use

Today's modern cities are looking to be more attractive, welcoming, convenient and safe. These characteristics help ensure that inhabitants want to live in the city, businesses can maximize their prosperity, and visitors can better enjoy their stay.

Lighting needs to do more than just deliver illumination after dark; it's expected to create unique ambiances and make spaces safer and more livable for citizens. All while keeping energy consumption and total cost of ownership to a minimum and providing a platform for opportunities to improve urban life through intelligent lighting.

To create their own distinctive identity, and brand themselves as unique, beautiful, inspiring and secure places, cities are forced to look for multiple suppliers. Companies with multiple styles of street lighting products, and other street furniture products with a range of dedicated functions such as sensors. This results in visual chaos, disfigurement of urban spaces, inconsistent quality of light and light effects, and requires different types of installation and maintenance.

It's the reason we designed UrbanFlex: a visually coherent and flexible lighting solution to perfectly fit all types of architectural contexts and lighting needs. What's more, UrbanFlex is ready to be connected to the Internet of Things (IoT), so you can control your lighting centrally and be part of a smart city ecosystem.

UrbanFlex is designed for customers looking for ways to achieve uniformity in design and quality of light with elegant, energy-efficient and sustainable products that can also be recycled.



# Focus on design identity

‘Starting from geometrical shapes we create a modern architectural look. Our Identity is primarily based on clear and recognizable outlines, where the shape variations enhance the functionality of the products.’

## Design identity

The signature style is modern and minimal, thereby giving your cityscape a visually coherent, elegant and discrete identity

# One design, many lighting possibilities

UrbanFlex offers a visually coherent and flexible solution with the promise of uniformity and distinctive style in urban design.

## Flexibility and a variety of uses for easy urban integration

UrbanFlex is a modular range in which luminaires, brackets and poles work together as a unified design concept. With flush transitions and clean lines, UrbanFlex is a coherent, discrete, elegant fit for any urban context.

# Meet UrbanFlex

UrbanFlex also delivers superior performance in quality of light and serviceability and is ready for a connected future. All qualities that make a positive contribution to the overall urban lighting experience, and make cities more welcoming and attractive to the people who visit, live and work there.



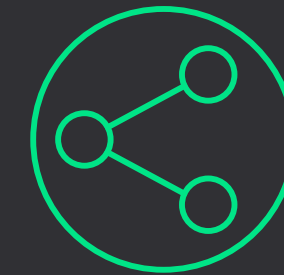
## Wide application coverage

From parking areas and cycle paths to main urban streets, UrbanFlex is your answer. Thanks to the latest LEDgine optimized LED platform and its extensive range of optics, UrbanFlex offers great performance.



## High quality of light

As a company conscious about the impact of light on the environment and biodiversity, we have equipped UrbanFlex with our dedicated light recipe that preserves a dark night sky. Our large range of color temperatures will also help you to define your specific ambience, while our diffusing option will give you the best of both worlds: comfort and energy efficiency.



## Ready for connectivity

Advances in technology happen so quickly, it might be difficult to decide when to opt in. Being System Ready, UrbanFlex can be paired with lighting controls and software applications such as Interact, either today or in the future. UrbanFlex can also work with systems from different providers.



## Improved maintenance

Each individual UrbanFlex luminaire is uniquely identifiable, thanks to the Service tag system. By simply scanning a QR code, you gain instant access to the luminaire's configuration information, making maintenance and programming operations faster and easier, and enabling you to create a digital library of lighting assets and spare parts.



## Sustainability

UrbanFlex has a flawless and minimal design and is made of recyclable and durable materials. Furthermore, UrbanFlex incorporates technologies that reduce energy consumption.

# Family overview

UrbanFlex is available in two luminaire sizes and offers a wide range of mountings from dedicated rectangular complete sets to spiral configurations and standard solutions.

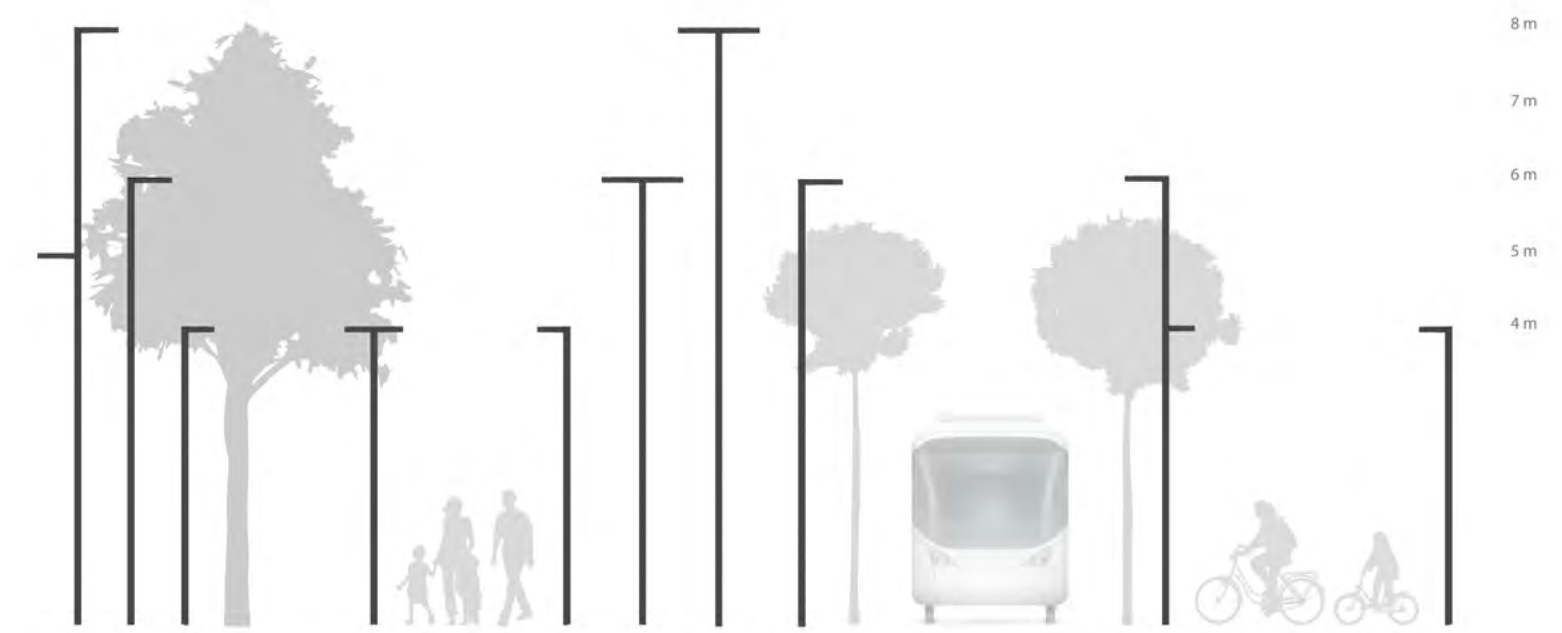
UrbanFlex offers a dedicated rectangular complete set for different areas in the city. An elegant Lyre for more urban focused applications. And our Accent bracket, which allows you to create the most elegant spiral configurations.

The range is equally suited for new installations and renovations, at any architectural scale.

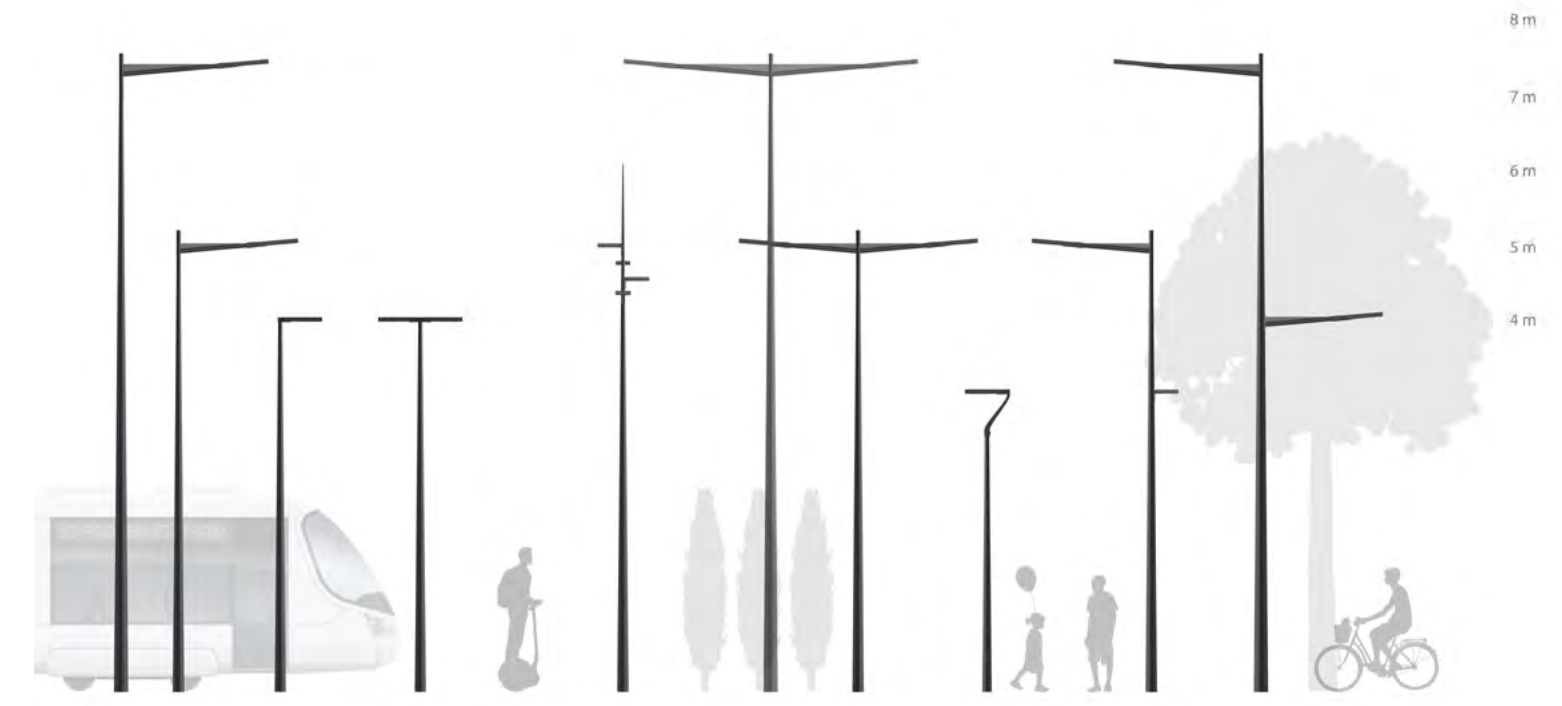
Mounting types	UrbanFlex micro 10-20 LED System: 540-5520 lm	UrbanFlex small 20-40 LED System: 1836-12880 lm
UrbanFlex pole		
Post top spigot Ø 60/76 mm		
Side entry spigot Ø 60 mm		
Accent bracket		
Lyre bracket		

## Luminaire, mast and bracket design

### Dedicated sets



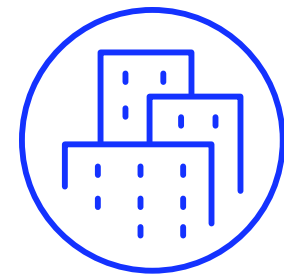
### Standard sets



# Application areas

Designed to create an appealing and comfortable atmosphere, the elegant and discrete UrbanFlex range combines design consistency with a high level of lighting performance.

The full range is modular - from poles and brackets to luminaires - and therefore offers a high degree of flexibility, not only in the way it integrates with any architectural context, but also in its range of applications. UrbanFlex incorporates all the necessary functional aspects of lighting whilst also having a strong focus on the emotional value of light. In this way, it helps to create the right ambience, enhances people's wellbeing, and makes the city more livable. For every application we have a number of solutions that will inspire you and enhance your city, while also fulfilling all your specific requirements.



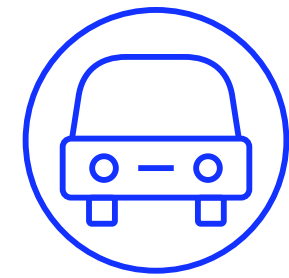
## City center

- Boulevard and avenue
- Side street
- Square, park and playground
- Roundabout
- Cycle path and foot path
- Shopping and pedestrian area



## Residential area

- Residential street
- Cycle path & foot path
- Roundabout
- Square, park and playground
- Parking area
- Public transport area



## Traffic route

- Boulevard and avenue
- Main urban/access road
- Roundabout



# 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 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).



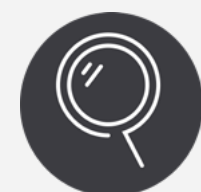
#### #2. Register the luminaire

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://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**

UrbanFlex is a System ready luminaire, coming with universal sockets on top and/or bottom 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.



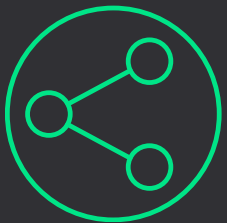
**Standardized technology**

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. UrbanFlex is ready to connect with Interact when you are.



For more information about Interact in cities visit: [www.interact-lighting.com/city](http://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 CO<sub>2</sub> 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.



# Signify and the Circular Economy

## Signify Circle helps customers choose products and services that advance their circular economy goals

The Circular Economy is how we will build a sustainable and prosperous lighting industry, reducing the dependency on scarce resources, minimizing waste and creating long-term value for customers and for our business. Circular solutions use fewer materials, consume less energy, preserve value, reduce total cost of ownership, and unlock new economic opportunities.

That's why Signify introduced Signify Circle—a comprehensive circularity offering to help customers in advancing their circular economy goals:

### Signify Circle products

Are fully aligned with our circular design principles, meeting key thresholds for "use less, use longer, use again" and earning the Signify Circle label.

### Lighting-as-a-Service

Customers get optimal lighting performance without owning or maintaining equipment—a simple way to ensure long-term quality while reducing upfront and total costs.

### Reuse, refurbish and remanufacture

Customers can extend product life by restoring used luminaires to as-new performance through our professional services.

### Spare parts and upgrade kits

Maintenance is easier than ever with instant access to service info, spare parts, and upgrades—keeping systems up to date cost-effectively and with minimal disruption.

Learn more: [signify.com/circle](https://www.signify.com/circle)



# Lighting for both nature and people

## 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 star-filled 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, ClearStar 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.

## 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. The ClearField spectrum will be equivalent to darkness for some bats while deliver sufficient light for safe human activities.

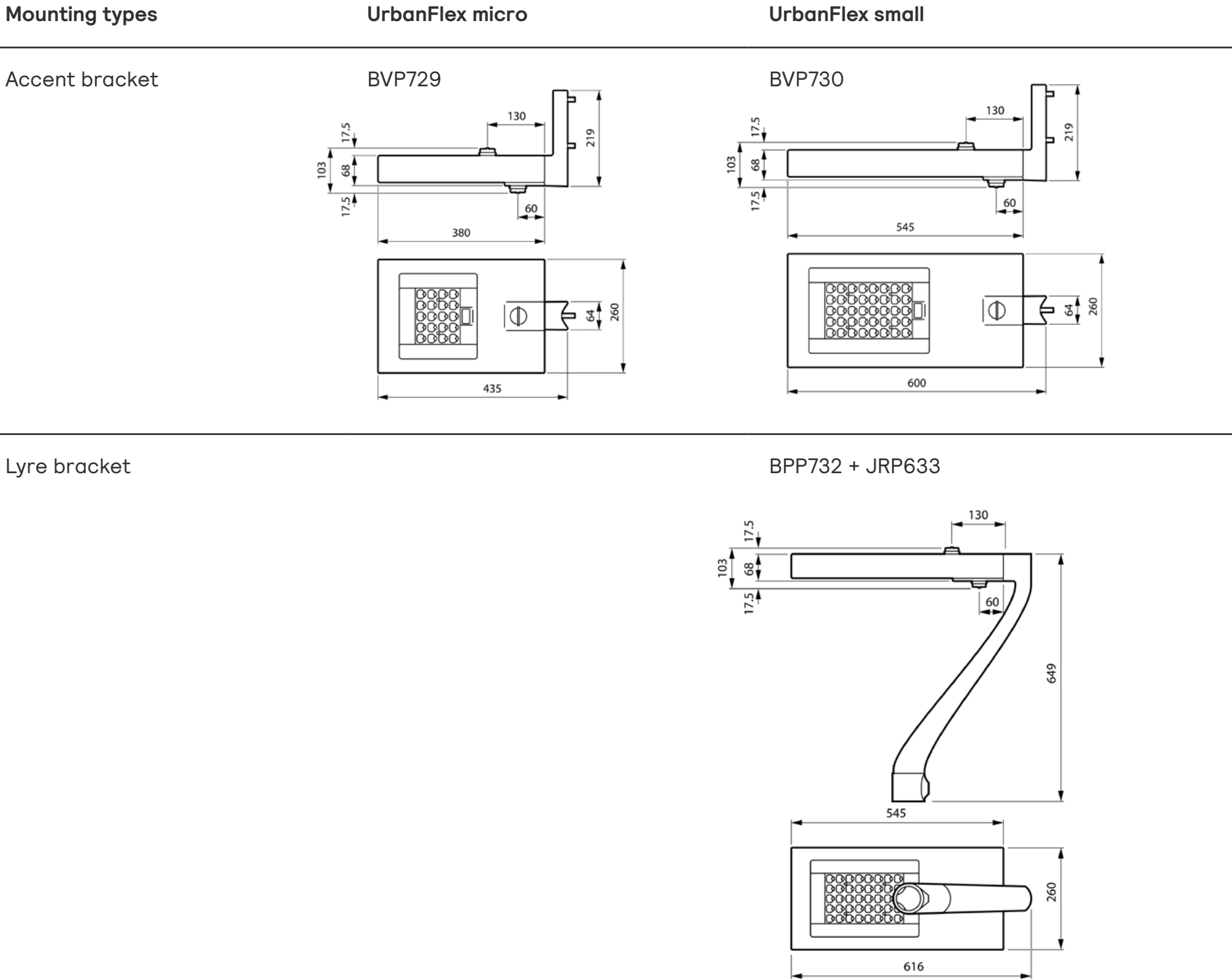
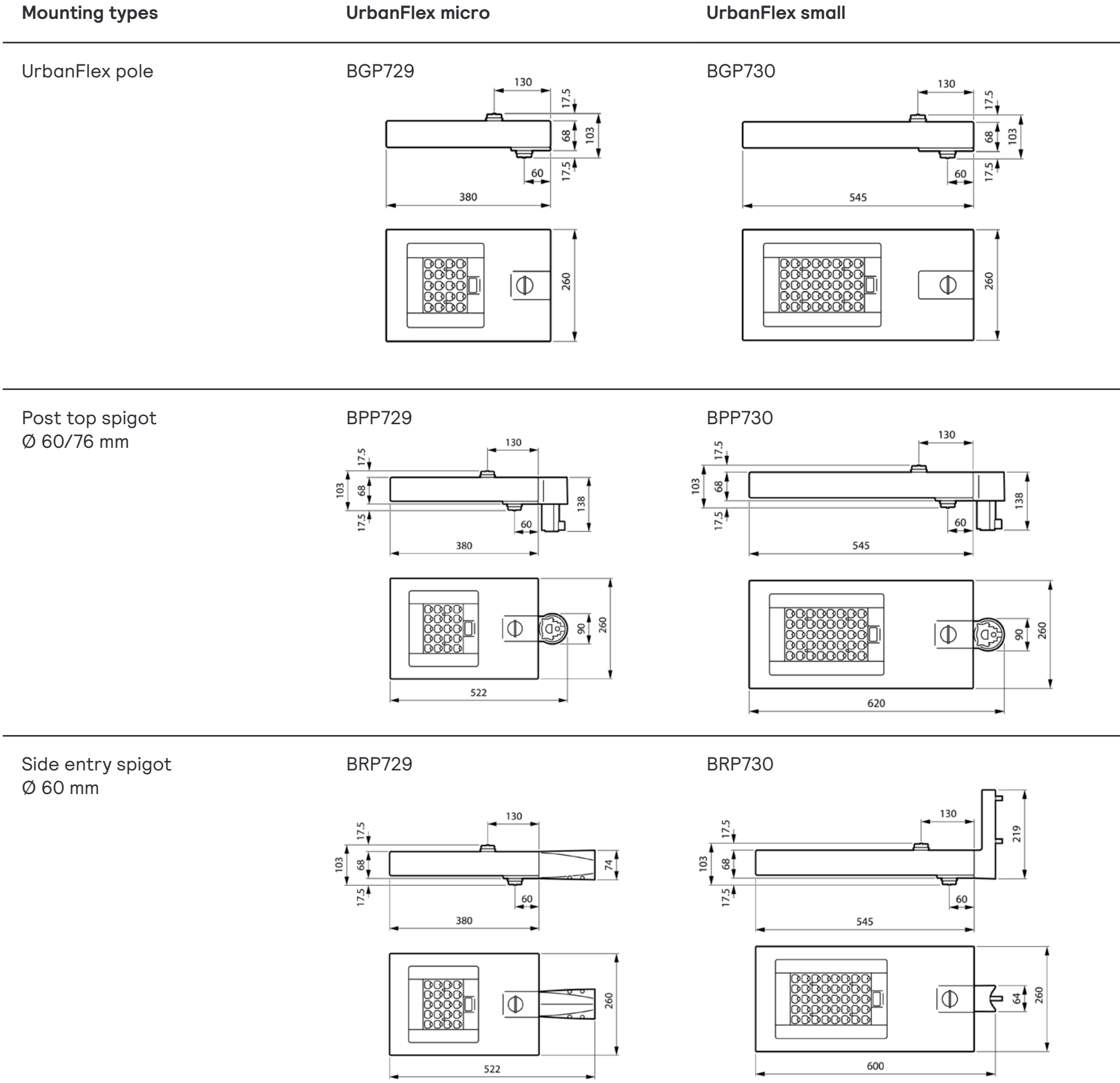


# Product specifications

Type	Micro size: BGP729, BPP729, BRP729, BVP729 Small size: BGP730, BPP730, BPP732, BRP730, BVP730
Light source	Integral LED-module
Luminous flux ranges	Micro size: 400 lm to 5,520 lm, depending on configurations Small size: 1,360 lm to 12,880 lm, depending on configurations
Power	Micro size: 7 W to 41 W, depending on configurations Small size: 20 W to 85 W, depending on configurations
Luminaire efficacy	47-158 lm/W depending on configuration
Correlated color temperature	2200K, 2700K, 3000K, 4000K
Color rendering index	80 (warm white) - 70 (neutral white)
Light recipes	ClearStar, ClearField
Useful life	100,000 hours min L90 at 25 °C ambient temperature
Control gear failure rate at median useful life 100000 h	10%
Performance ambient temperature Tq	+15 °, +25 °, +35 °
Average ambient temperature	+25 °
Operating temperature range	-40 °C to +50 °C
Driver	Programmed LED drivers
Mains voltage	220-240 V / 50-60 Hz
Dimming	Stand-alone DynaDimmer, DALI, LineSwitch, Mains dimming, AmpDim
Connectivity option	Interact, Philips Multisensor
Connectors	NEMA, SR, D4i

Optic	Distribution Medium (DM, DN), pedestrian crossing, symmetrical, wide, extra wide: DM10, DM11, DM12, DM13, DM30, DM31, DM32, DM33, DM50, DM70, DPR1, DPL1, DS50, DS51, DSM2, DW10, DW50, DW52, DX10, DX50, DX51, DX52, DX70, DN09, DN10, DN11, DN33, DN50, (other optics upon request)
Louvres	Dedicated louvres for backlight cut-off BL1, BL2
Optical cover	Tempered flat glass, clear or frosted
Material	Housing: die-cast aluminium
Color	Ultra Dark Grey GR10714 Other RAL or AKZO Futura colors available on request
Warranty	5 years
Installation	Post top: Ø 60 and Ø 76 mm spigot (BPP729, BPP730) Side entry: Ø 60 mm spigot (BRP729, BRP730) Lyre bracket (JRP633): post top Ø 60 mm mounting for UrbanFlex small size luminaire only (BPP732) Direct fixation of the luminaires on to UrbanFlex poles (BGP729, BGP730) Accent bracket ( delivered with BVP729, BVP730) UrbanFlex pole height: 4-5-6-7-8 m
Maintenance	Access to both LED board and driver by opening the canopy by the means of a clip, all secured by an auto-fixating locking bar, making parts safely accessible
CLO	Available
Electrical class	Class I and Class II
IP rating	IP66
IK rating	IK09 clear flat glass, IK08 frosted flat glass
Weight	Micro version: BGP729: 4.3 kg, BPP729: 5.7 kg, BRP729: 5 kg, BVP729: 4.9 kg Small version: BGP730: 7 kg, BPP730: 8.4 kg, BRP730: 7.7 kg, BVP730: 7.6 kg, BPP732: 9.3 kg
Surge protection	6 kV (standard) - 10 kV (optional)
Certification	RoHS, REACH, CE, ENEC, ENEC+

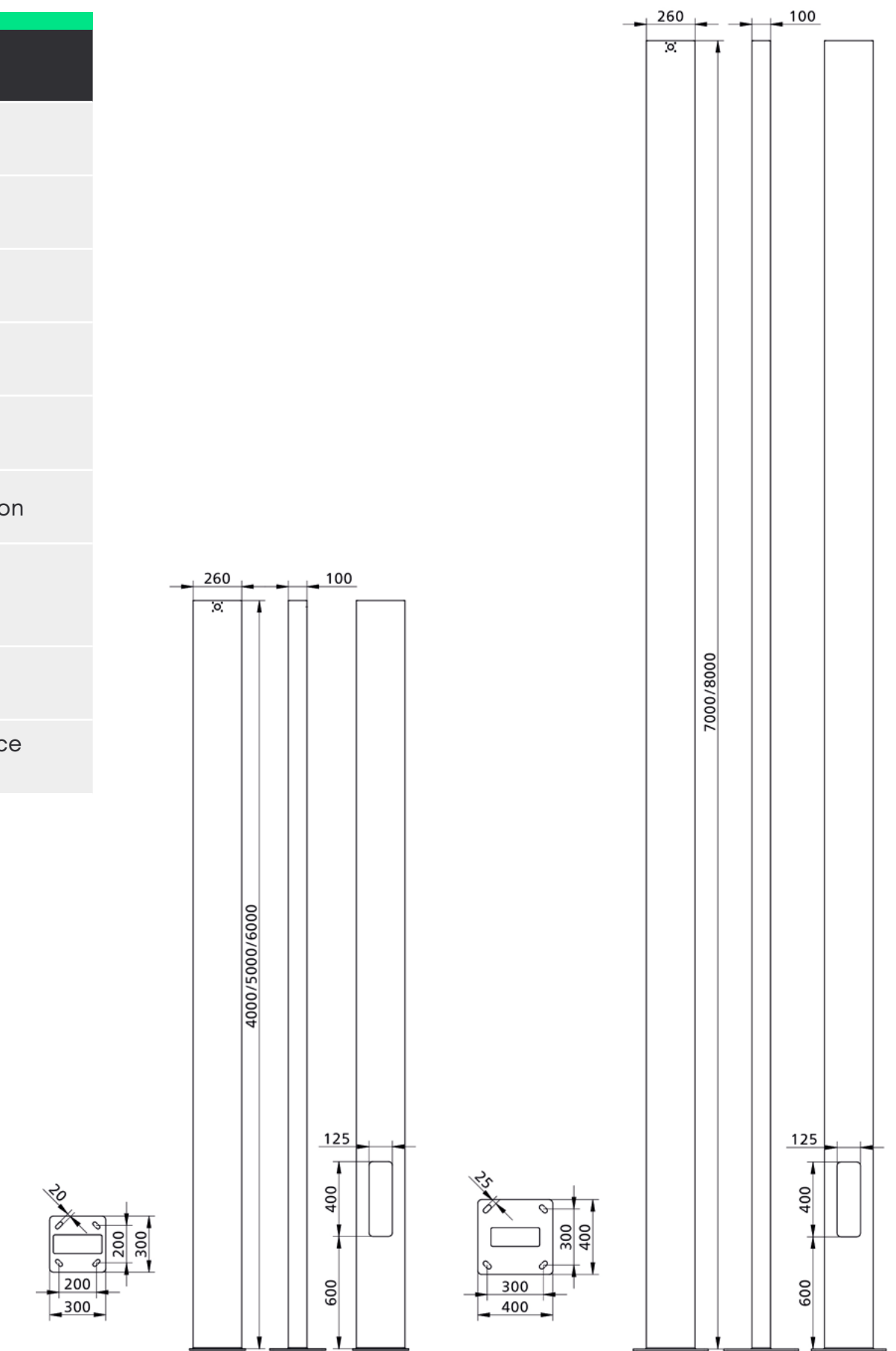
# Dimensional drawings





# Poles specifications

UrbanFlex poles	Specifications
Material	Steel
Mounting to luminaire	Side fixation 4 × M6 × 40
Pole shape	Rectangular
Pole height	4 to 8 meters
Pole dimensions (width x depth)	260 × 100 mm
Installation type	Flange plate or ground section
Color	Ultra Dark Grey Other RAL or AKZO colors available on request
Options	Marine Salt Protection
Certification	CE certification in accordance with standard EN40



# 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