

**PHILIPS**

*TownGuide  
Performer*

Public lighting



Product guide

**City life,**  
city lights



# TownGuide Performer

## Let your city shine bright

The modern urban environment is a highly dynamic and varied hub that brings together every kind of human activity. People live and work in cities, they spend their leisure time there, and they are always on the move – around the year and around the clock.



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“

Make every part  
**of the city**  
**come alive”**



# Designed around your needs

TownGuide Performer is the effective and affordable family of urban lighting luminaires that lets urban spaces adapt to changes in the seasons, the time of day and the flow of people around town. This functional and energy-efficient outdoor LED lighting range is designed for lower post-top applications. It is easy to install and highly customizable, supports a variety of control options, and is a perfect match for many different city settings.

Whether as a new installation or as a direct retrofit replacement, TownGuide is suitable for use in public spaces like residential areas, parks, squares and pathways. But it feels equally at home in private outdoor areas like office buildings, campuses and entertainment venues. The built-in LED modules allow for different combinations of optics, and a wide choice of dimming options helps to create even more easy-to-use applications.

## Choose your TownGuide Performer

To create the solution that works best for your project, you can choose from six recognizable yet modern shapes: Flat Cone, Bowl, Classic Cone, Classic T, T and Tzero. Each of these is available with a clear bowl.

There is also a frosted bowl available, with exception of the Tzero. You can even select the right color temperature and choose your preferred operating lifetime.

In addition, TownGuide Performer offers a variety of intelligent control systems that can make it an integral and very effective part of your city's sustainability and smart city programs. TownGuide Performer is a CityTouch Ready luminaire enabling connected remote and asset data management. Adding the substantial energy and maintenance costs savings of the luminaire to the benefits and all of this contributes to an attractive Total Cost of Ownership.



### Comfort

State-of-the-art LEDs, on very low drive current, increase visual comfort for drivers and pedestrians.



### Energy savings

Very good energy performance compared to other LED luminaires and conventional options for dedicated post top application.



### Long lifetime

Low maintenance thanks to long life of LED light source.



### Easy to install

Suitable for new installations or direct retrofit replacement of existing installations.

# Family range

Take one glance at TownGuide Performer and it is immediately clear that it is totally different from any other outdoor luminaire family on the market.

The wide choice of shapes and two bowl finishes enable you to mix and match so you can meet any specific requirements in the residential environment. You will always find a design that suits the era of the surrounding environment, be it the roaring twenties, the provocative sixties or the contemporary style of today. Whatever style you choose, you'll always benefit from today's advanced energy-efficient lighting technology.



**Flat Cone  
clear**

Upward light ratio,  
ULR < 3%



**Flat Cone  
frosted**

Upward light ratio,  
ULR < 3%



**Classic Cone  
clear**

Upward light ratio,  
ULR < 3%



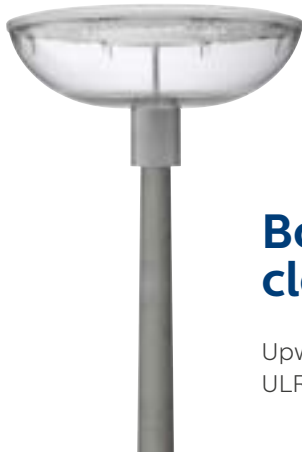
**Classic Cone  
frosted**

Upward light ratio,  
ULR < 10%

“

My town is serious about conserving the environment. The new street lighting really shows our commitment. **We lead by example.”**

Public lighting  
.....  
TownGuide  
Performer  
.....  
**Family range**  
.....



### **Bowl clear**

Upward light ratio,  
ULR < 3%



### **Bowl frosted**

Upward light ratio,  
ULR < 15%



### **Classic T clear**

Upward light ratio,  
ULR < 3%



### **Classic T frosted**

Upward light ratio,  
ULR < 4%



### **T clear**

Upward light ratio,  
ULR < 3%



### **T frosted**

Upward light ratio,  
ULR < 3%



### **Tzero clear**

Upward light ratio,  
ULR < 0%

# In perspective

The TownGuide Performer range has been designed to offer perfect solutions, also in terms of the proportion of the luminaire to its mounting height or a specific environment. Recommended mounting heights for TownGuide Performer versions is between 4 to 6 meters.

6 m.

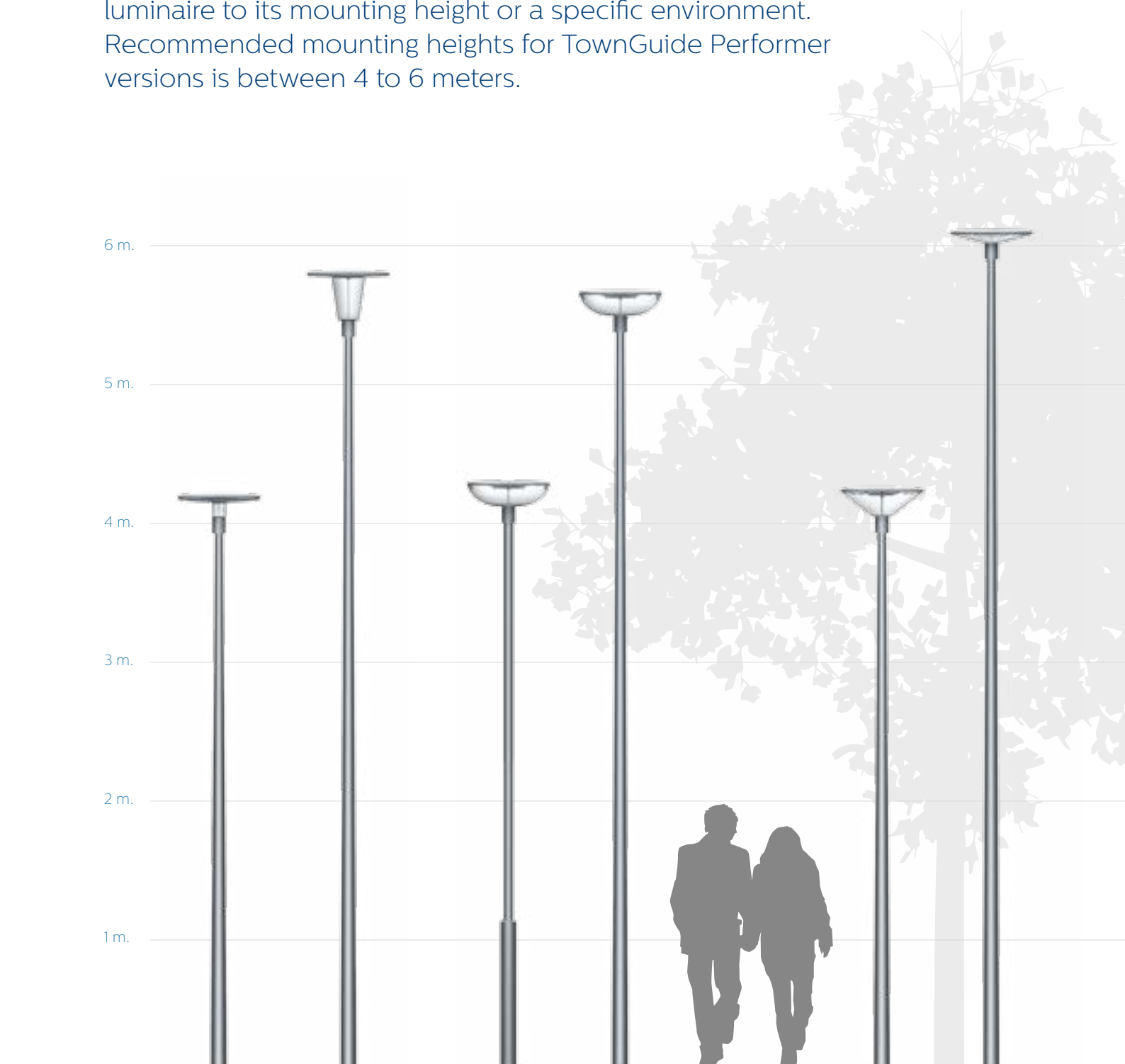
5 m.

4 m.

3 m.

2 m.

1 m.





# Lighting performance

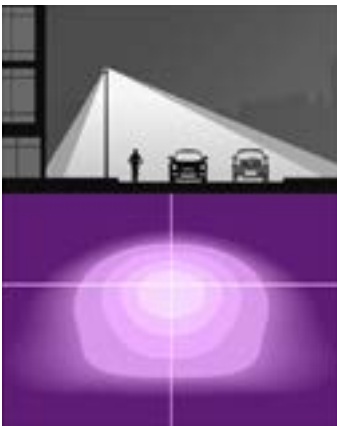
TownGuide Performer offers great flexibility in terms of the lighting distributions and luminous flux used in different applications.



**DN Distribution**  
**Narrow**



**DM Distribution**  
**Medium**



**DW Distribution**  
**Wide**



**DRW Distribution**  
**Residential Wide**



**DS Distribution**  
**Symmetric**

# Applications

## A high degree of flexibility

The TownGuide Performer family incorporates five different luminaire shapes that offer design continuity throughout the area. This creates a harmonious and consistent image in a town or city. Even at night, we help to enhance this urban image – the different lens optics work together to create a powerful light

distribution that suits a variety of areas and is still uniform and comfortable. By adding the five optics, the application can be tailored to suit your project requirements. In summary, through its integrated design, TownGuide Performer effectively offers a one-stop solution for public lighting:

### Sports

- Parking area



### City Center

- Side street
- Square, park & playground
- Cycle path & footpath
- Shopping & pedestrian area
- Parking area
- Public transport area



### Area & Transportation

- Parking area
- Public transport area



### Residential area

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









# Application **examples**



The situations shown represent some typical applications in the outdoor environment. The road geometry used in these examples is shown in the sketches.

In the event of point-for-point replacement of luminaires in an existing installation, the Philips TCO calculator is a valuable tool for getting a first impression of potential savings. The Total Cost of Ownership calculator tool from Philips allows you to easily compare the complete cost of alternative lighting solutions in comparison

to your current lighting installation. So that you are able to make well-considered decisions on long term sustainability and cost impact. You can access the TCO tool via the Philips website ([www.philips.com/outdoor-tco](http://www.philips.com/outdoor-tco)) or consult your Philips representative to see what savings TownGuide Performer can offer you.

## Cycle path

### TownGuide Classic Cone – clear bowl

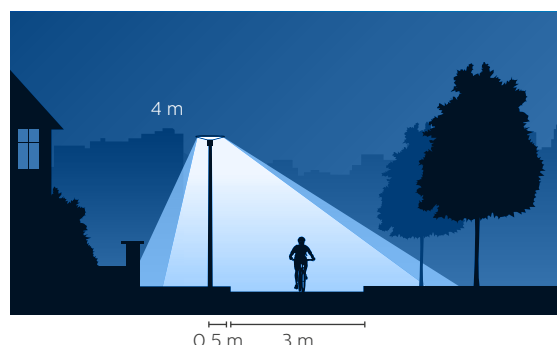
**Light distribution: DN**

Class: S4

Source: GRN25/840

Spacing: 34 m

System power: 18 W



## Residential medium street

### TownGuide Classic Cone – clear bowl

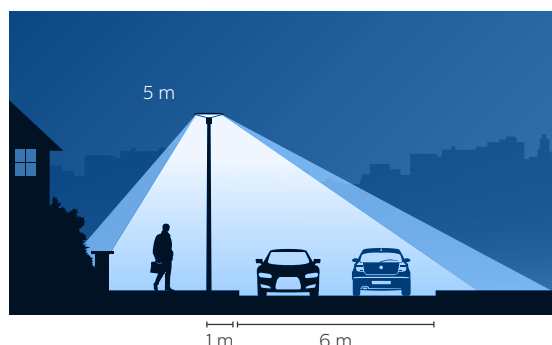
**Light distribution: DM**

Class: CE4

Source: ECO70/840

Spacing: 31 m

System power: 54.5 W



## Residential wide street

### TownGuide Classic Cone – clear bowl

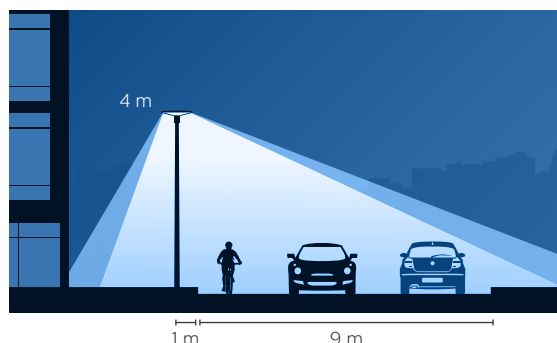
**Light distribution: DW**

Class: S5

Source: GRN25/840

Spacing: 30 m

System power: 18 W



## Square

### TownGuide Classic Cone – clear bowl

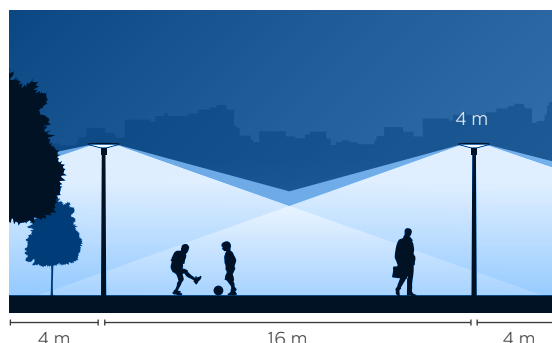
**Light distribution: DS**

Class: CE5

Source: GRN40/840

Spacing: 22 m

System power: 28.5 W
























# Features

## Standard LED configuration patterns

TownGuide Performer offers several LED configurations, delivering a wide range of lumen packages. Lumen packages in GreenLine offer a life expectancy of 100,000 hours, and for EconomyLine the life expectancy is 80,000 hours. The 6-sided LED modules each contain 16 LEDs and are covered by lens plates to obtain a highly efficient distribution of the available light. To obtain a very effective light distribution, 5 optics are available to optimize the application. The LEDs operate on a low drive current. The intensity per LED is therefore lower and spread over a larger surface area. This results in an improved perception of glare and visual comfort.

Lumen packages	Number of LEDs*	Lumen packages	Number of LEDs*
GRN12	2 	ECO40	3 
GRN15	2 	ECO50	4 
GRN20	4 	ECO60	4 
GRN25	4 	ECO70	4 
GRN30	4 	ECO80	6 
GRN35	4 	ECO90	6 
GRN40	4 	ECO100	6 
GRN50	6 	ECO110	8 
GRN60	8 	ECO120	8 
GRN70	8 		

\*Arrangement of the LED modules in the luminaire, viewed from the road axis.



## Spigot arrangements

There are three sizes of spigot – Ø 48, Ø 62 and Ø 76 mm – to suit virtually every standard pole type. A special Ø 90/62 mm adapter is also available, for added flexibility. The outer diameter of the adapter and the Ø 62 mm spigot are the same in order to ensure a smooth transition.



**Spigot size** Ø 48, Ø 62 and Ø 76 mm

## Orientation

Correct orientation of the optics is warranted when the pole bolts are 90° perpendicular to the road axis. The Philips logo is then facing the pedestrian side.



**Outer** Ø 98 mm

## Special adapter

ZDP100 90/62 mm adapter, outer Ø 98 mm to give smooth transition with the spigot.



# Components



**1 Canopy** made of die-cast aluminum and powder coat-painted with RAL 9006 (SI), RAL 9007 (ALU), RAL 9005 (BK) or RAL 7035 (GR). Other colors on request. Marine Salt Protection (MSP) coating on request.

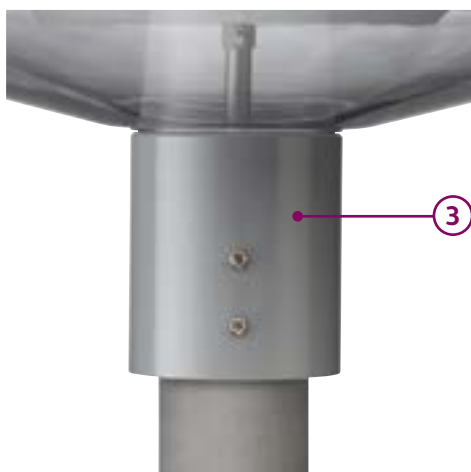
**2 Bowl** made in UV-stabilized polycarbonate in a clear or frosted finish. Impact resistance: IK10.

**3 Spigot** in die-cast aluminum. Painted in the same color as the canopy. Spigot sizes of Ø 48, Ø 62 and Ø 76 mm are available. Fixation to the pole by means of two stainless-steel bolts (M10). Spigot is fixed from the inside of the bowl by four stainless-steel bolts.

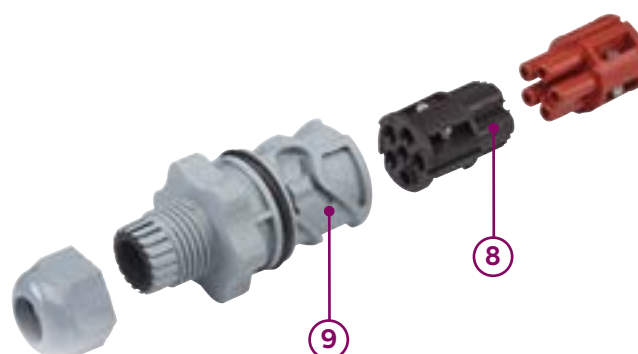
**4 The driver** is secured directly to the canopy. Dimming equipment, e.g. SDU, will use the forks. Other intelligence control include LumiStep, DynaDimmer, StarSense Wireless RF or CityTouch Ready.

**5 Driver cover** is made of reflective white plastic and is designed in such a way as to form an integral part of the unit so that it harmonizes with the other visible components.

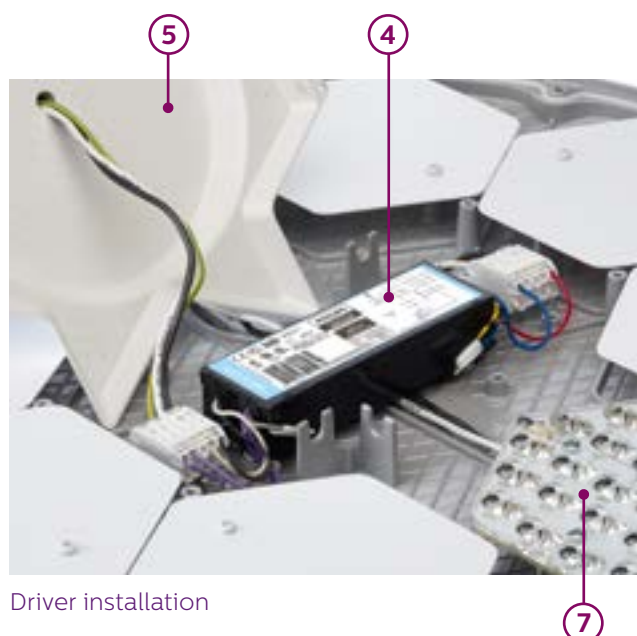
**6 Aluminum tube** holds the internal wiring between the gear cover and spigot. The tube is held firmly in a vertical position by the self-guiding grey disc.



Pole fixation by two bolts



Whistle connector



Driver installation



## 7 LED modules

GRN: 2, 4, 6 or 8 modules  
 ECO: 3, 4, 6 or 8 modules Including lens plates are fixed onto an aluminum supporting and cooling body. The lens plates are made of clear PMMA with either DS, DN, DM, DW or DRW light distributions. Positions not in use are covered by reflective white plastic plates.

**8 Connection** is by means of the bayonet whistle connector with integrated gland. The gland features strain relief and is suitable for a Ø 6-12 mm cable.

**9 Gaskets** are positioned between the canopy and the bowl, between the bowl and the spigot and between the bowl and the whistle connector, securing the luminaire in accordance with IP66. An integrated breathing filter prevents condensation from forming.

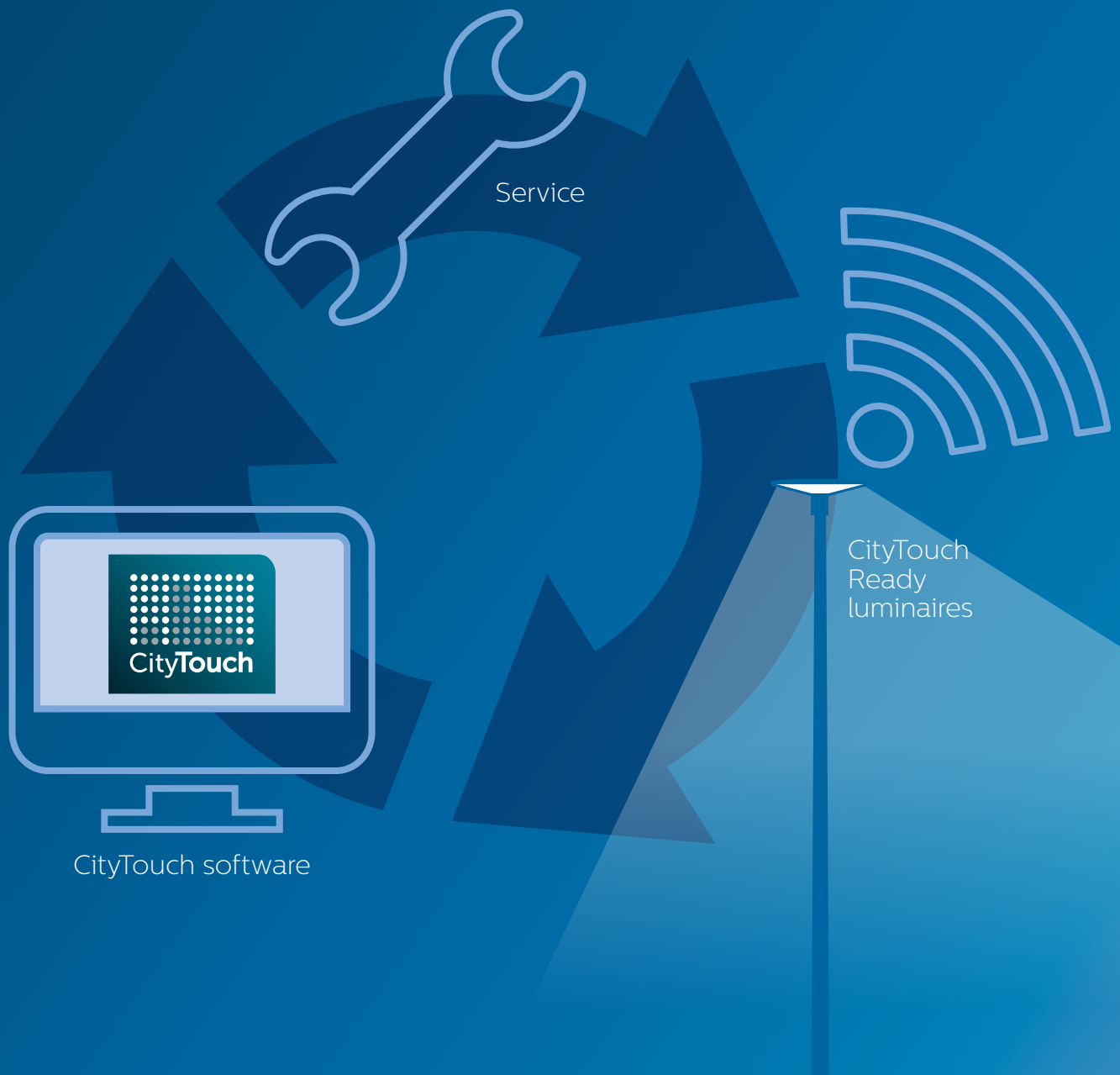
**10** In the **Tzero** bowl versions, an internal louver is integrated, making the luminaire virtually a flat glass version to prevent light being emitted over the horizon.



# TownGuide Performer in control

Lighting city streets, roads and public spaces presents many challenges. Due to traffic density and different traffic levels, the dynamics of city life change constantly.

To respond to those changes and make the city feel safe, attractive and inviting, you need the right levels of lighting. But urban planners are also under pressure to reduce energy costs and maximize the city's green credentials. Philips offers you a complete intelligent lighting controls range that helps you overcome all those problems and makes the city more livable and sustainable.



# Connected lighting

## CityTouch Ready luminaires

TownGuide Performer can be seamlessly connected to CityTouch software via CityTouch connect app (remote management), with all the intelligence being integrated into the luminaire without the need for any additional hardware. Communication runs directly via the public mobile network. An additional advantage is that you are not required to perform any maintenance. Furthermore, the entire connectivity management is covered by the service we provide, ensuring there is no hassle for you, the customer. Once connected to the power supply, a light point automatically

appears on the CityTouch map at the right location – with all the relevant technical parameters imported into the system.

CityTouch connect app is an intelligent, interactive remote management solution for street lighting. It brings your city lighting to life and offers you flexibility, information and accuracy. The system's flexibility enables you to respond easily to expected and unexpected situations by dimming or brightening any of the areas within your city to ensure safety and well-being. Information keeps you up to date on the

current status of every single luminaire, facilitating more effective maintenance and faster repairs. And accurate energy metering gives you a precise overview of actual energy consumption.



## CityTouch connect app key features



### Control of each individual light point

You have the flexibility to adjust every single luminaire to changing situations or requirements at any time. You can adjust calendars to suit your individual needs simply by changing the switching points of each dimming profile via drag and drop.



### Fault detection and notification

Faster and better provision of information about the current status of the lighting infrastructure enables you to address maintenance issues more quickly and to improve the maintenance service level.



### Accurate energy metering

Accurate energy metering for each individual luminaire enables you to monitor your energy bills and to identify potential new savings.

# Network controls

## StarSense Wireless with RF antenna

StarSense Wireless is a networked control system based on two-way wireless communication using the latest in mesh network technology. The system enables individual light points to be controlled remotely and to be managed via online platforms like CityTouch.

Lighting operators can control the public lighting infrastructure remotely, setting dimming levels to achieve considerable energy savings. Also, they get real-time feedback from the luminaires, reducing operating and maintenance costs via accurate scheduling of on-site maintenance service tasks, while improving both the quality and reliability of public lighting.



# Stand alone controls

## LumiStep control

An integrated control system available in the Philips driver, which lowers the light source's flux and the power consumed over a period of 6 or 8 hours (two pre-programmed versions). The potential energy savings (on power system) are up to 25%, depending on the luminaires and light source used.



## DynaDimmer control

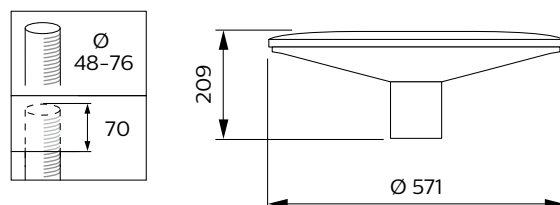
An integrated control system included in each light point. It is operated on electronic equipment and can be integrated into the Philips driver. It can apply 5 levels of power, (re)definable in terms of level and duration, per chosen light point. An average energy saving of approximately 50% per year can be realized.



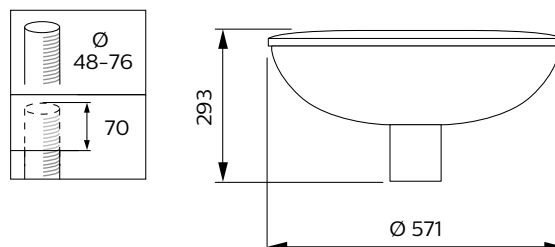


# Dimensional drawings

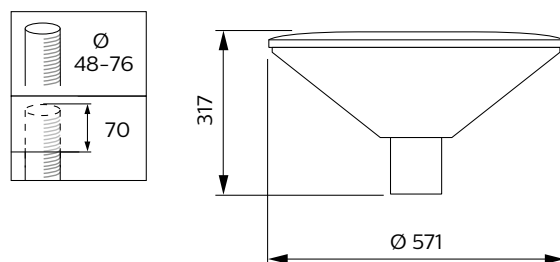
**Flat Cone BDP100**



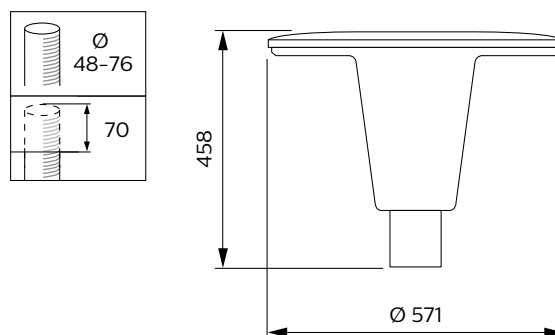
**Bowl BDP101**



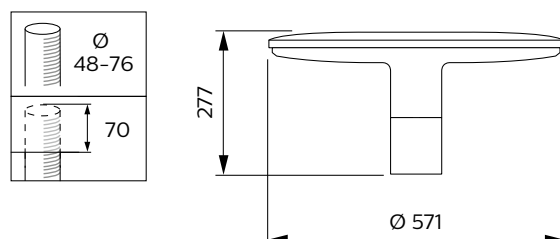
**Classic Cone BDP102**



**Classic T BDP103**



**T BDP104 / Tzero BDP105**



# Main specifications

Product features	Specifications
<b>Type</b>	BDP100 (Flat Cone version) BDP101 (Bowl version) BDP102 (Classic Cone version) BDP103 (Classic T version) BDP104 (T version) BDP105 (Tzero version)
<b>Light source</b>	Integrated LED module
<b>Power</b>	10–98 W, depending on LED configuration and color temperature
<b>Luminous flux</b>	GRN: 12, 15, 20, 25, 30, 35, 40, 50, 60 or 70 lm ECO: 40, 50, 60, 70, 80, 90, 100, 110 or 120 lm
<b>Luminaire efficacy</b>	GRN: 84–112 lm/W (for clear bowl; 4000 K version, depending on configuration) ECO: 93–108 lm/W (for clear bowl; 4000 K version, depending on configuration)
<b>Correlated color temperature</b>	3000 K (warm white), 4000 K (neutral white)
<b>Color rendering Index</b>	≥ 80
<b>Lumen maintenance L80B10</b>	GRN: 100,000 hours at 25 °C ECO: 80,000 hours at 25 °C
<b>Operating temperature range</b>	–20 to +35 °C
<b>Driver</b>	Integrated programmable LED driver
<b>Power/data supply</b>	Philips Xitanium Prog+
<b>Mains voltage</b>	120–277 V / 50–60 Hz
<b>Control system input</b>	1–10 V or DALI
<b>Intelligent control</b>	SDU-LineSwitch, DynaDimmer, LumiStep, StarSense RF Wireless, CityTouch Ready
<b>Options</b>	Constant Light Output (CLO), also possible in combination with dimming Mains dimming (AmpDim) Class II version Mini photocell or NEMA socket 10 kV surge protection (SRG 10) Factory-fitted cable (H07RN-F-1 mm), 4, 5 or 6 meter exterior length
<b>Optics</b>	Distribution Wide (DW) Distribution Narrow (DN) Distribution Medium (DM) Distribution Symmetrical (DS) Distribution Residential Wide (DRW)
<b>Optical cover</b>	Polycarbonate cover clear (PCC) or frosted (PCF)
<b>Material</b>	Canopy and spigot: high-pressure die-cast aluminum Cover: impact-resistant UV-stabilized polycarbonate
<b>Color</b>	Silver grey (RAL 9006) Grey aluminum (RAL 9007) Black (RAL 9005) Light grey (RAL 7035) Other RAL or AKZO Futura colors available on request
<b>Connection</b>	Bayonet whistle connector with integrated M20 gland
<b>Maintenance</b>	Maintenance in (local) workshop only
<b>Installation</b>	Post-top mounting: axial entry Ø 48–76 mm (48P, 62P or 76P) Recommended installation height: 4–6 m
<b>Effective Projective Area</b>	Max SCx: BDP100 (Flat Cone): 0.051 m² / BDP101 (Bowl): 0.095 m² / BDP102 (Classic Cone): 0.088 m² / BDP103 (Classic T): 0.093 m² / BDP104 (T) BDP105 (Tzero): 0.053 m²
<b>Surge protection</b>	4 kV standard, option to add 10 kV surge protection device (SRG 10)
<b>Cable gland</b>	M20, cable Ø 6–12 mm, with integrated strain relief
<b>Accessories</b>	Special adapter for post-top Ø 90 mm (in combination with Ø 62 mm spigot)
<b>Warranty</b>	Bronze 3 years, extended warranty can be applied for
<b>Inrush current driver</b>	40 W: 65 A/100 µs; 100 W: 80 A/150 µs; 150 W: 118 A/140 µs
<b>IP rating</b>	IP66
<b>IK rating</b>	IK10
<b>Weight</b>	From 6.1 to 8.4 kg, depending on version and chosen flux

## Specification table

Luminaire version *	Product family code *	Lumen package	System power (W)
<b>TownGuide Performer Flat Cone</b> <b>TownGuide Performer Bowl</b> <b>TownGuide Performer Classic Cone</b> <b>TownGuide Performer Classic T</b> <b>TownGuide Performer T</b> <b>TownGuide Performer Tzero</b>	BDP100 BDP101 BDP102 BDP103 BDP104 BDP105	GRN12	10.5
		GRN15	13
		GRN20	16.5
		GRN25	18
		GRN30	22
		GRN35	28
		GRN40	28.5
		GRN50	38
		GRN60	40
		GRN70	48.5
		ECO40	31.5
		ECO50	42
		ECO60	46.5
		ECO70	54.5
		ECO80	60.5
		ECO90	67
		ECO100	71.5
		ECO110	88
		ECO120	98

\* Per luminaire version/product family code all the lumen packages are available



