

LED

Free

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(Last)

TownGuide

Public lighting

Product guide

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.

Delden, The Netherlands



66 Make every part of the city come alive"

Ringvaart Schiedam, The Netherlands

TownGuide Performer

Introduction

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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 easyto-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 (PCC) bowl. All shapes, except Tzero, are also available with either a translucent (PCTR) or frosted (PCF) bowl. Choosing between light colors neutral white or warm white is also possible.

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 an System 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 three 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.



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

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Public lighting

TownGuide Performer

Family range







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 are between 4 to 6 meters.



TownGuide Performer

Lighting performance ••••••

..... 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:

Area & Transportation Sports **City Center Residential area** • Parking area • Parking area Side street Residential street • Public transport area • Cycle path & footpath • Square, park & playground • Cycle path & footpath • Square, park & playground • Shopping & pedestrian area • Parking area • Parking area • Public transport area

TownGuide Performer

Applications

Application examples



Ringvaart Schiedam, The Netherlands

..... TownGuide Performer

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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, our TCO calculator is a valuable tool for getting a first impression of potential savings. This Total Cost of Ownership calculator tool allows you to easily compare the complete cost of alternative lighting solutions in comparison to your current

lighting installation. This enables you to make well-considered decisions on long term sustainability and cost impact. You can access the TCO tool via the dedicated website (www.philips.com/outdoor-tco) or consult your Signify representative to see what savings TownGuide Performer can offer you.

Cycle path

TownGuide Classic Cone – clear bowl Light distribution: DN

Class: P4 Source: LED25/740 Spacing: 34 m System power: 17.5 W



TownGuide Classic Cone – clear bowl Light distribution: DM

Class: C4 Source: LED70/740 Spacing: 31 m System power: 48 W



0.5 m 3 m

Residential wide street

TownGuide Classic Cone – clear bowl Light distribution: DW

Class: P5 Source: LED25/740 Spacing: 30 m System power: 17.5 W





6 m

Square

TownGuide Classic Cone - clear bowl Light distribution: DS

Class: C5 Source: LED40/740 Spacing: 22 m System power: 28 W



Features Standard LED configuration patterns

TownGuide Performer offers several LED configurations, delivering a wide range of lumen packages and offering a life expectancy of 100,000 hours at an impressive L value (between L82 and L98, depending on required flux). 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. In case of a complaint in regard to intrusive light (e.g. in the bedroom window), a shielding louver to limit back light may be added (not for DS optic).



Lumen packages	Number of LEDs*	Lumen packages	Number of LEDs*	
LED12	2	LED60	6	
LED15	2	LED70	6	
LED20	4	LED80	6	
LED25	4	LED90	6	
LED30	4	LED100	6	
LED35	4	LED110	8	
LED40	4	LED120	8	
LED50	4			

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

TownGuide Performer

Features

Spigot arrangements

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



Spigot size Ø 48, Ø 62 and Ø 76 mm



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.





Special adapter

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

Components



- 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 clear, translucent 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.
- The driver is secured directly to the canopy. Dimming equipment, will use the forks. Other intelligence control include Lumistep, Dynadimmer, Coded mains, StarSense Wireless RF or Interact City.
- 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.

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Components





Pole fixation by two bolts

Whistle connector



7 LED modules

2, 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.
- **11. A louver** (BL2) is available to shield light emitted to the back in case of obtrusive light complaints.

Designed for serviceability

Since LED luminaires require different competencies and processes for maintenance, fault finding and repair, TownGuide and its components are designed with serviceability in mind. Furthermore, to provide better support, 24/7 access to information and spare parts ordering, all TownGuide products and packages can be identified by the unique Philips Service tag QR code.

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The greatest value of the Philips Service tag is that it enables us to save precious time and avoid human errors"

ownGuide Performer

Serviceability

Why Philips Service tag?



Easy access to relevant information Improving installation process by providing easy access to product configuration information



More effective maintenance Enabling more effective maintenance operations by identifying spare parts



Digital maintenance

Enabling you to pre-program spare parts to factory settings

Instant access to procedures, spare part list and programming

This 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 Philips Service tag app, and the contents of the box plus installation information are described. The tag also activates the five-year warranty. To assist in diagnosing breakdowns, scanning the tag provides the troubleshooting guide applicable to that luminaire. Sourcing spare parts and 'one touch' programming of parts to original settings can also be done using the app. It's that simple.



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.



TownGuide Performer

Upgrade now or later

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Upgrade now or later

TownGuide is a System ready luminaire, coming with a universal socket on the top of 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 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.

Benefits of System ready



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.



Flexibility

The SR 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.



Thanks to Zhaga standardization and the SR 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.

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.

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.



Group controls

Coded Mains control

A dimming technology included in the drivers that allows to communicate dimming information over mains power wiring to a large set of luminaires. It uses existing cable infrastructure and poles to communicate dimming information in a safe and reliable way.



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%,



(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

TownGuide Performer

Dimensional drawings

Flat Cone BDP100





Bowl BDP101



Classic Cone BDP102





Classic T BDP103



T BDP104 / Tzero BDP105



Main specifications

Product features	Specifications			
Туре	BDP100 (Flat Cone version)			
	BDP101 (Bowl version)			
	BDP102 (Classic Cone version)			
	BDP103 (Classic T version)			
	BDP104 (T version)			
	BDP105 (Tzero version)			
ight source	Integrated LED module			
Power	10-102 W, depending on LED configuration and color temperature			
uminous flux	LED12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 110, 120 (x100 = lm)			
uminaire efficacy	4000K: 99 up to 115 lM/w (PCC bowl)			
-	3000K: 84 up to 101 lm/W (PCC bowl)			
Correlated color temperature	3000 K (warm white), 4000 K (neutral white)			
Color rendering Index	4000K: 70 min			
-	3000K: 80 min			
umen maintenance LXX	100,000 hours at 25 °C from L82 up to L98 (consult Lumen Power Table)			
Operating temperature range	-30 to +35 ℃			
Driver	Integrated programmable LED driver			
Power/data supply	Philips Xitanium Xi-FP or Xi-SR or XI-CM depending on configuration.			
Mains voltage	220-240 V / 50-60 Hz			
Control system input	DALI			
ntelligent control	LineSwitch, DynaDimmer, Coded Mains, LumiStep, StarSense RF Wireless, Interact City			
Options	Constant Light Output (CLO), also possible in combination with dimming			
	Mains dimming (AmpDim)			
	Class II version			
	Mini photocell or NEMA socket.			
	For smart connected lighting, SR socket on top (SRT) or 7-pin NEMA			
	10 kV surge protection (SRG 10)			
	Factory-fitted cable, 4, 5 or 6 meter exterior length			
Optics	Distribution Wide (DW)			
	Distribution Narrow (DN)			
	Distribution Medium (DM)			
	Distribution Symmetrical (DS)			
	Distribution Residential Wide (DRW)			
Optical cover	Polycarbonate cover Clear (PCC), Translucent (PCTR) or frosted (PCF)			
Material	Canopy and spigot: high-pressure die-cast aluminum			
	Cover: impact-resistant UV-stabilized polycarbonate			
Color	Silver grey (RAL 9006)			
	Grey aluminum (RAL 9007)			
	Black (RAL 9005)			
	Light grey (RAL 7035)			
	Other RAL or AKZO Futura colors available on request			
Connection	Bayonet whistle connector with integrated M20 gland			
Maintenance	Maintenance in (local) workshop only			
nstallation	Post-top mounting: axial entry Ø 48-76 mm (48P, 62P or 76P)			
	Recommended installation height: 4-6 m			
Effective Projective Area	Max SCx: BDP100 (Flat Cone): 0.051 m² / BDP10 1 (Bowl): 0.095 m² /			
-	BDP102 (Classic Cone): 0.088 m² / BDP103 (Classic T): 0.093 m² /			
	BDP104 (T) BDP105 (Tzero): 0.053 m ²			
Surge protection	6 kV standard, option to add 10 kV surge protection device (SRG 10)			
Cable gland	M20, cable \emptyset 6-12 mm, with integrated strain relief			
Accessories	Special adapter for post-top Ø 90 mm (in combination with Ø 62 mm spigot)			
Warranty	5 years, extended warranty can be applied for			
-	40W: 22A / 290μs, 100W: 45A / 285μs, 110W: 10A / 130μs			
Inrush current driver				
-	40w: 22A / 290µs, 100w: 45A / 285µs, 110w: 10A / 130µs 1P66 1K10			

Specification table

Luminaire version*	Product family code*	Lumen package	System power (W)	
TownGuide Performer Flat Cone TownGuide Performer Bowl TownGuide Performer Classic Cone TownGuide Performer Classic T TownGuide Performer T TownGuide Performer T	BDP100 BDP101 BDP102 BDP103 BDP104 BDP105	LED12 LED15 LED20 LED25 LED30 LED35 LED40 LED50 LED60 LED70 LED80 LED90 LED100 LED100 LED110 LED120	4000K 9,7 11,6 14,4 17,4 21 24,5 28 35,5 41 48 56 64 85 80 88	3000K 10,8 13 16 19,8 24 28 32 41 47 56 65 77 88 95 102

 $^{\ast}\,\text{Per}$ luminaire version/product family code all the lumen packages are available



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