
PHILIPS
UniStreet
Public lighting
LED
Product guide
The easy way
to upgrade
road lighting to LED

Introduction

Being a highly efficient light source, LED continues to transform the lighting market. It can reduce energy consumption of a lighting installation by 50%; compared to a conventional solution or even up to 70% when coupled with lighting controls. This advantage is particularly pertinent for town and city authorities concerned with budget constraints, as public street lighting can account for up to 40% of their electricity bill.

In parallel, LED lighting can also contribute to sustainability objectives, by reducing CO_2 emissions even up to 70%! Additionally, LED technology also brings an improvement in terms of the quality of light, by delivering more pleasant lighting and enabling better visibility , which can lead to improved safety and satisfied residents.

Contents

“UniStreet offers the perfect combination of **attractiveness, efficiency, and cost savings**.”

Challenges for public lighting

Drivers for change

Towns and cities are increasingly recognizing the need to switch to more efficient lighting resources. One driver for change is the swelling number of regulations that are forcing authorities to phase out their outdated public lighting installations. Another is the need to reduce energy consumption, cut emissions and meet sustainability objectives.

Budgetary restrictions

However, authorities have only a limited budget available and need to be conscious of their spending. Therefore, maintenance requirements and Total Cost of Ownership (TCO) are becoming important criteria when selecting new lighting.

Effective illumination

Next to increased efficiency and reduced maintenance cycles, it is essential to provide illumination that does what it is intended to do. This is where LED lighting stands out, with its good quality of light that enhances the safety and well-being of citizens.

UniStreet: the easy way to upgrade to LED lighting

UniStreet is a highly efficient LED-based solution, which offers significant cost savings and low maintenance. For town and city authorities considering upgrading their road lighting to LED to start enjoying the benefits of LED lighting right from the start, UniStreet is the ideal solution.

What does UniStreet offer?

1:1 replacement

UniStreet is perfect for replacing conventional technology such as SOX, PL-L, SON or HPL. It also enables add-on lighting control while retaining the same electrical installation and poles.

Fast payback

With its fast and full payback within a short period of time, UniStreet is an extremely attractive investment.

Low TCO

When it comes to Total Cost of Ownership, UniStreet stands out from the competition. It's extremely efficient, offering a performance up to 135 lm/W with a lifetime up to 100,000 hours. Installation and maintenance are easy thanks to the Philips Service tag. UniStreet is dimmable thanks to LumiStep or DynaDimmer to optimize energy consumption, and can be connected with the Philips CityTouch control system.

Wide application coverage

To meet the specific application requirements of different areas in and outside the city, UniStreet comes in different sizes, a wide selection of lumen packages (ranging from 1,000 up to 17,000 lumens) and a broad range of standard and premium optics. The optics are developed for 1:1 replacement of conventional luminaires.

Sustainable

UniStreet's compact luminaire design is made from durable, recyclable materials and incorporates technologies that reduce energy consumption and environmental impact. A reduced number of components and light-weighting of materials also combine to reduce emissions along the supply chain.

1:1 replacement | Fast payback | Attractive TCO | Wide application coverage | Sustainable

Family range

UniStreet is available in four different sizes and two light engines to meet your needs. Simply select the version that meets your specific requirements.

Large:
BGP204

Medium:
BGP243

Small:
BGP203

Mini:
BGP202

Light engines

Performer – using the optimized LEDGINE platform

Core

Application areas

Traffic route
- Boulevard & avenue
- Side street
- Parking area
- Main road
- Provincial road
- Minor road

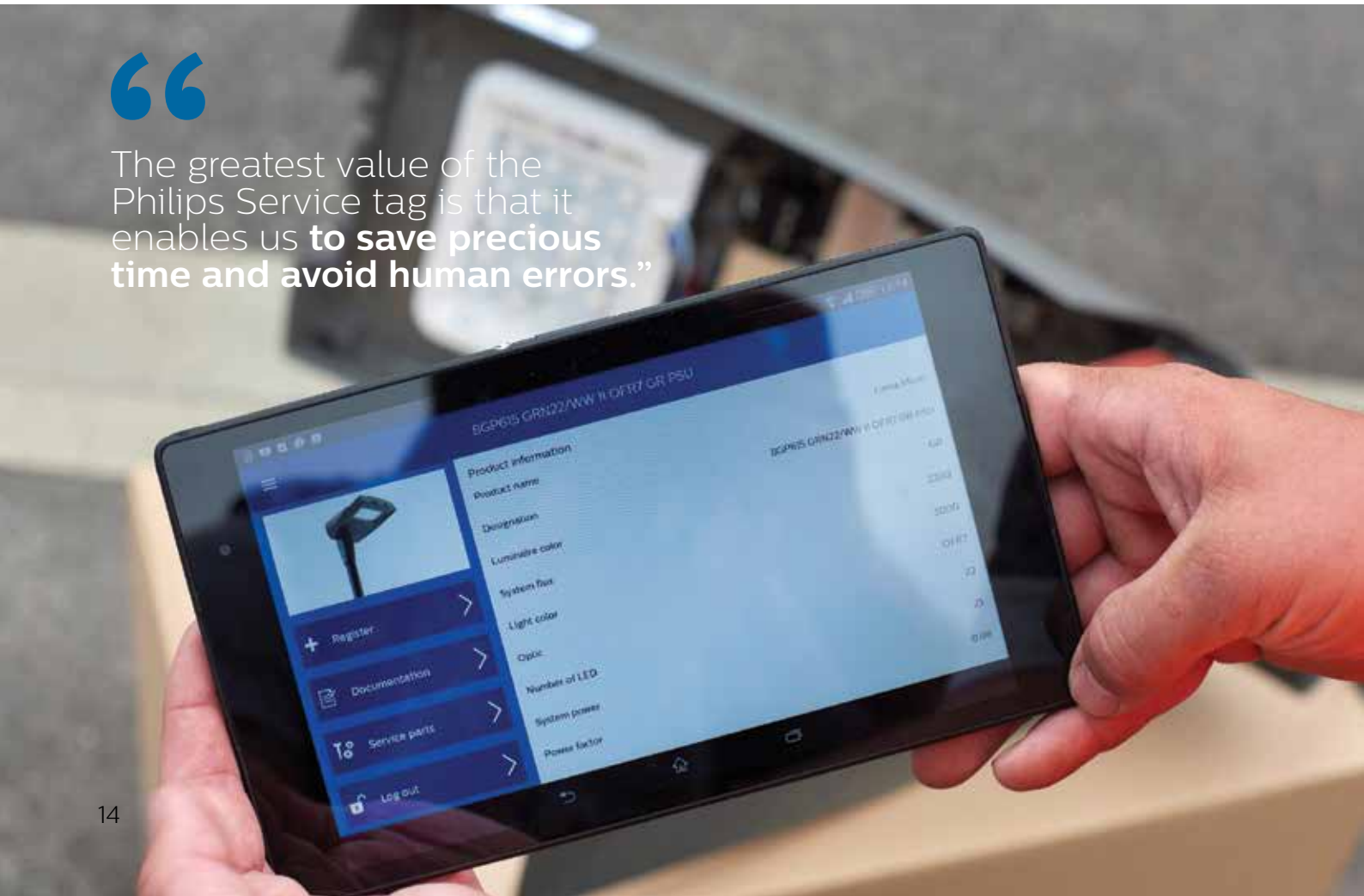
Residential area
- Walking/cycling path
- Minor road
- Parking area
- Residential street

Designed for **serviceability**

LEDification in outdoor lighting is a growing trend due to the high level of light quality and the outstanding energy efficiency of LED technology. However, maintenance of LED luminaires is more complex than for conventional luminaires, as it requires different competences and processes. Yet at the same time, there is growing pressure to speed up fault finding and repair processes and fulfil increasing safety and efficiency demands.

To meet these often conflicting requirements, Philips has developed the Philips Service tag. This unique QR-based identification system is placed on all next generation Philips luminaires, poles and boxes they are delivered in, to offer the following benefits:

- Easier installation and servicing thanks to 360° service proposition
- Digital maintenance possibilities
- 24/7 access to luminaire and spare part information
- Quicker access to spare parts
- Rapid on-the-spot re-programming of drivers



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

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.

Case study

Szczyrk, Poland

Szczyrk is a well-known Polish touristic village, and hosts one of the biggest ski resorts in Poland. The municipality wanted to change all the lighting fixtures in order to become more green and to increase energy savings. Tauron Dystrybucja, together with Szczyrk municipality realized that UniStreet was the optimal solution.

What was the customer looking for?

The Szczyrk municipality wanted to decrease energy consumption and improve sustainability.

The Philips solution

After a successful pilot, the municipality decided to replace all existing luminaires with UniStreet LED-based luminaires. The renovation involved over 1500 light points. Integral to the solution was the DynaDimmer controller, to enable lights to be dimmed during the day when there is sufficient daylight, thus saving energy.

Results

- More modern appearance
- More efficient and sustainable lighting
- Energy consumption fell by 52.9%
- Dimming via DynaDimmer contributed significantly to energy savings
- Increased investments attracted to municipality

Lighting **performance**

The UniStreet range comes in a variety of lighting distribution and luminous flux values, offering real flexibility in the field. An extensive optics portfolio addresses the needs of various applications. These include Luminance classes (M) and Illuminance classes (P, C). The optic geometrics include narrow, medium, wide and extra wide optics.

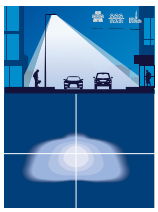
Optics for dedicated applications include light trespass prevention, comfort, wet roads, pedestrian crossings and facial recognition.

Portfolio of optics

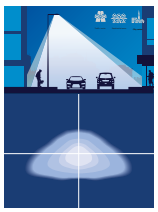
Luminance classes (M)
DN10/DM10/DM11/DM12/DW10

DN10

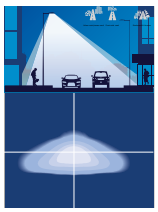
DM10



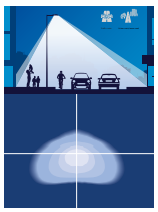
DM11



DM12

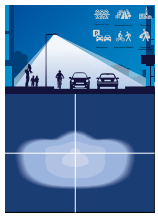


DW10



Luminance classes (P, C)
DW50

DW50



LEDGINE optimized

The new generation LEDGINE offers a unique combination of standardization and customization, so you can tune lighting solutions to suit your exact needs. There are three pillars that characterize LEDGINE:

Standard engine

Using a standard engine across the key portfolio means you can benefit from the latest LED upgrades to various products without changing light distributions. The flux packages are pre-defined across product ranges, including CLO options.

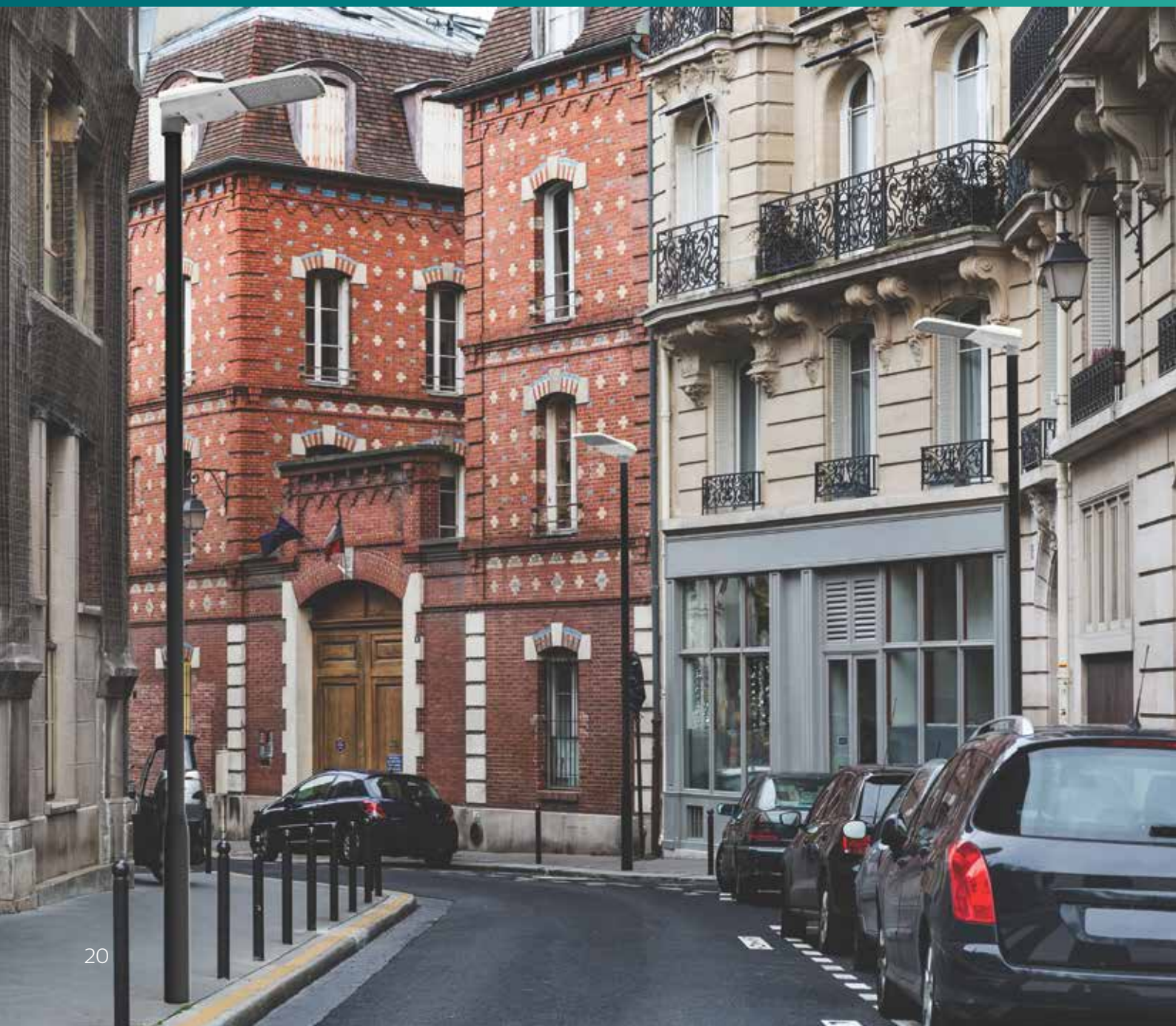
Standardized optics

A complete new optics range ensures a perfect fit for every application. The optics offer flexibility, enabling standardization over applications with outstanding performance across a wide range of geometries – as well as design parameters such as tilt and overhang.

Tailor-made solutions

For tuned project solutions, Philips can support you with the exclusive L-Tune tool. It enables you to build the required flux to ensure the best balance between operational life, maintained flux, energy costs and product type.

Components



1 Aluminum frame

2 Top surface without fins

3 Aluminum or plastic cover (RAL7004)

4 High efficiency LEDs

5 Adjustable spigot +10° to -90°
Spigot regulated without cover opening

6 Separate gear compartment

7 Philips drivers

8 Cover opening with 4 screws

9 Flat glass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Product **specifications**

Specifications

Type	Mini: BGP202 Small: BGP203 Medium: BGP243 Large: BGP204
Light source	Integral LED-module
Power	8 to 122 W (depending on the version)
Luminous flux	Nominal: CORE: 1000 to 7800 lm (mini version), 1000 to 9000 lm (small version), up to 17,000 lm (medium and large versions) System: 1200 to 6700 lm (mini version), 1200 to 8400 lm (small version), up to 15,000 lm (medium and large versions)
Luminaire efficacy	91-142 lm/W (depending on the version)
Correlated color temperature	4000 K (3000K upon request – PERFORMER)
Color rendering index	> 70 (4000 K) > 80 (3000 K) PERFORMER only
Useful life	100,000 hours minimum L80B10 (CORE), L86B10 (PERFORMER) at 25°C ambient temperature
Operating temperature range	-30 to +35°C
Driver	Built-in (self-ballasted LED-module)
Mains voltage	220-240 V / 50-60 Hz
Dimming	LightWave LumiStep DynaDimmer
Options	Constant light output (CLO) External cable: 4, 6, 8, 10, 12, 15, 22 meters Surge protection device (up to 10 kV) Backlight louver (BL1 and BL2) for PERFORMER mini and medium versions
Optic	CORE: Distribution Medium (DM) or Distribution Wide (DW); PERFORMER: Distribution Narrow (DN10), Distribution Medium (DM10, DM11, DM12, DM50), or Distribution Wide (DW10)
Optical cover	Flat cover, glass
Materials	Upper frame: die-cast aluminum, high pressure Electric cover: plastic or aluminum Cover: glass, thermally hardened, 4 mm
Color	Upper frame: light gray (RAL7035); other colors upon request Electric cover: Plastic: signal gray (RAL7004); aluminum: RAL7035
Connection	Screw connection block or as option an external IP connector

Date of release
August 2017
lighting.philips.com