Road Lighting

Feel safe on the roads
Make roads safer
The UK has the densest traffic profile in Europe, and whilst turning off the lights may seem a tempting option to reduce energy bills, there are serious concerns that less road lighting lead to more accidents and more crime. Poor lighting or none at all can make it very difficult for motorists to see hazards or objects clearly at night. The Royal Society for the Prevention of Accidents statistics found twice as many crashes on motorways are fatal where there are no street lights. Road lighting not only reduces the risk of traffic accidents but also their severity.

Do more. Use less
Our innovative outdoor lighting solutions address your environmental concerns and the increasing cost pressures on your municipal budget. Practical and beautiful, efficient and sustainable, they balance impressive energy savings and CO₂ reduction with the high quality light you need to make your roads and streets feel safe and welcoming. So you can reduce the cost of your road lighting in every way possible, while still enhancing driving conditions and life in the city.

Reduced cost and safer roads with LED lighting
Our roads and streets are a vital part of the country’s infrastructure, essential to support economic activity and people’s movements. Local authorities are under increasing pressure to reduce their energy cost and environmental impact, without compromising the safety of road users. Philips LED lighting solutions can help answer this need.

The benefits of LED solutions
• Big energy savings – up to 85%
• Good colour rendering, making it easier for users to orientate themselves
• Long life – up to 100,000 hours, resulting in less maintenance
• Uniform, high quality white light
• Good opportunities to dim light when it is not needed
• A light source that can be used anywhere, from footpaths to motorways

A trusted partner for your investment
On the following pages you’ll discover how Philips can help to improve the safety on your roads and streets. We are at the forefront of lighting innovation, so in today’s rapidly changing world you can depend on us to provide you with the very latest and best product solutions combined with consistent quality and great service. With more than a hundred years of lighting experience, you can feel safe in the knowledge that your investment is in the hands of one of the most recognisable, trusted and admired names in lighting.
Philips continues to lead the way

From the very first filaments to the most advanced lighting systems of today, Philips is constantly seeking ways of improving lighting whilst reducing power consumption and enhancing our experience of light. Philips has always been leading the way in the evolution of lighting and has continuously placed R&D and innovation at the core of its activities. In 2012, we invested 420M€ in R&D for lighting alone.

Philips Lighting covers the globe with a network of national support teams, employing more than 50,000 in 60 countries.

Philips has been present in the UK since 1925 and has a long history of delivering innovative solutions, guaranteed performance and quality of service with a complete portfolio covering all outdoor applications.

1891
Philips & Co established in Eindhoven, starting mass production of incandescent lamp to create cost-effective, reliable light bulbs for everyone

1925
Philips Lighting UK established

1932
First road lead with SOX Philips demonstrates the sodium bulb in Purley Way, Croydon, London on the 8th December. The installation is comprised of 60x 100W Phlora DC bulbs

1933
Philips introduces the first ever public lighting competition open to all UK lighting authorities

1938
Invention of the son light bulbs

1960s
Invention of SON lamp

1967
Philips provides lighting equipment for the first major cattery lighting schemes on UK motorway and major trunk roads

1967
Philips installs its innovative CityTouch Control Management System on the M4 Second Severn Crossing

1972
Philips provides lighting equipment for the first major cattery lighting schemes on UK motorway and major trunk roads

1972
Philips provides high mast high pressure sodium lighting for the urban motorway into Leeds city centre

1973
Philips provides high mast high pressure sodium lighting for the urban motorway into Leeds city centre

1977
Philips selected to supply the first PFI projects in Portsmouth, Islington, Barnet and Enfield.

1987
Philips introduces the first ever public lighting competition open to all UK lighting authorities

1990s
Electronic control gear introduced

1992
Philips provide lighting equipment for the first major cattery lighting schemes on UK motorway and major trunk roads

1997
Philips acquires Indal WRTL, further broadening its road lighting portfolio.

2004
Introduction of Cosmo

2004
Philips carries out the world’s first installation of the groundbreaking road LED luminaire SpeedStar in St Helens, Merseyside

2010
Philips provides high mast high pressure sodium lighting for the urban motorway into Leeds city centre

2011
Philips provides high mast high pressure sodium lighting for the urban motorway into Leeds city centre

2012
Philips installs its innovative CityTouch Control Management System on the M4 Second Severn Crossing

2017
Philips acquires Indal WRTL, further broadening its road lighting portfolio.

Some British landmarks lit by Philips

- St Paul’s Cathedral
- London Eye
- Gateshead Millennium Bridge
- Brighton Pavilion
- Bullring Birmingham
- London Olympics
The UK Highways Agency and contractors Amey chose the highly energy-efficient SpeedStar LED solution for the A5 Tamworth Bypass, a busy highway in the West Midlands. This solution delivers white light of consistent high quality, brightness and intensity, whilst cutting energy costs by up to 70%. With a lifetime of 60,000* hours SpeedStar also reduces the maintenance and replacement required by traditional lighting. This will both lower operational costs and improve traffic planning to avoid disruption to road users.

Product solution:
SpeedStar with LEDGINE

*Saves up to 70% in energy costs

"The Philips SpeedStar installation on the A5 Tamworth Bypass ensures that all of the luminaire’s bright, white light is focused on the highway, reducing energy consumption, increasing road safety for motorists and helping to significantly minimise light pollution."

Amey
Philips has a complete range of road and street lighting solutions for every application or lighting requirement. From busy highways to urban streets, we have everything you could possibly need to make your streets more save and your lighting more efficient.

Find out more at: www.philips.co.uk/catalogue

**Benefits**
- Excellent energy-efficient performance
- Easy to maintain and future-proof, upgradeable/serviceable
- Innovative CO₂-neutral design

**Features**
- Incorporates Philips LEDGINE platform for leading-edge performance and lifetime reliability
- Flexible system – compatible with all lighting control solutions for even greater energy savings
- Dedicated LED design
- Long life with low maintenance
- Total solution with masts and brackets

**Benefits**
- Up to 60% energy savings
- Replaces all traditional light sources for road traffic routes
- 5,000 to 52,000 lumen packages to meet all lighting classes
- Replaces everything up to 400W SON

**Features**
- Optimum energy savings
- The OPTIFUX™ lens optics effectively meets current lighting standards
- Post Top or Side Entry mounting

**Benefits**
- Highly efficient lighting platform without compromising on quality of light
- Full flexibility to cover all applications

**Features**
- Incorporates Philips LEDGINE platform
- Integrated controls
- Wide optical flexibility

**Benefits**
- Up to 25% energy savings compared to SON without compromising on quality of light
- Easily serviceable and upgradable – capitalise on increasing LED efficiencies

**Features**
- Designed for LED – no compromise
- High performance with excellent glare control
- Different optics available – suitable for a wide range of applications
- 'Plug & play'

**Benefits**
- Consistency and continuity of family design
- Future-proof luminaire: easy to maintain, LED upgrade
- Excellent total cost of ownership

**Features**
- LED engine
- Choice of colour temperature
- Compact design
- Additional energy savings thanks to control options

**Benefits**
- Outstanding performance and energy savings
- Replaces up to 150W SON and 140W CPO (Luma 1), and up to 100W SON (Mini Luma)
- Perfect for standard, wider roads and small conflict areas
- Lower Total Cost of Ownership
- 100,000 hour service life

**Features**
- REVOLED technology
- Up to 52 LED from 14W to 62W system power
- Different colour temperatures; cool white, neutral white or warm white

**Please click on each product for more information.**
The council has built an excellent working relationship with Philips-WRTL and we have enjoyed enormous success with previous Stela installations. They were the obvious choice of partner to deliver a suitable lighting solution for this particular location and improve our road network.”

North Lincolnshire Council

North Lincolnshire Council selected Luma 2, an innovative, long-term LED solution for one of its major traffic route corridors, the A18 Queensway. Luma 2 replaces the existing SOX lanterns point for point along the high-profile dual carriageway, saving around 20% energy whilst improving the lighting levels to comply with ME3a standard.

The council also had a goal of reducing maintenance costs associated with traditional street lighting. Regular visits to replace lamps, carry out repairs and clean units result in extra cost and cause disruptive traffic movement and road closures. The Luma LED solution virtually eliminates maintenance costs and can be installed on a ‘fit and forget’ basis, achieving substantial savings on maintenance whilst reducing carbon emissions and improving lighting levels.

A18 Queensway, Lincolnshire

Product solution:
Luma 2
CityTouch

Lighting a city’s streets and public spaces presents many challenges. The dynamics of city life change constantly due to traffic levels, the weather, accidents or events. You need the right levels of illumination to respond to those changes and make the city feel safe, attractive and inviting. But you’re also under pressure to reduce energy costs and maximise your green credentials. CityTouch can help you can overcome all those problems and make the city more livable, now and in the future.

Flexible and future-proof
CityTouch offers you the ultimate flexibility. Fully scalable and highly reliable, it works with lamps, luminaires and controls from multiple brands, not just Philips. The extensible platform is also ready for future applications and features the highest levels of security, including completely encrypted user sessions and regular data backups. It’s an end-to-end service that also provides best-in-class payback times. Intelligent lighting management enables you to save on energy and maintenance costs with advanced lighting solutions that perform brilliantly for longer. So you can bring your city lighting to life and enhance your city’s green credentials.

Bring city lighting to life
CityTouch gives you the power to make the lighting in your city dynamic, intelligent and totally flexible. It’s a web-based ICT solution that connects light points, controls and cabinets with advanced lighting management applications. With CityTouch, planning, controlling and managing your lighting infrastructure is simplicity itself. The intuitive interface gives you real-time information on all the lighting assets in the city, allowing you to adjust light levels on demand to respond quickly to changing needs. So you can boost light levels to improve safety and visibility or dim levels to save energy and prevent light pollution.

CityTouch Solution
- Dynamic, intuitive user interface
- Fully scalable, fast and responsive
- Navigate around your city lighting
- Legally licensed maps

Remote Light Management
- The ultimate in lighting management
- Complete control over the daily operation of your lighting
- Issue tracking and fault reporting
- Create flexible dimming schedules

Light Asset Management
- Powerful search and flexible reporting
- Filter by category, street and power
- Detailed log and visualisation map
- Query storage and export

Saves up to 50% in energy and CO₂
Feel in control

In the current context of awareness of ecological issues and our footprint on the planet, it is important to emphasise the costs of public lighting on our energy bill. This latter represents approximately 40% and could be reduced by up to 70% with efficient (LED) lighting solutions and equipped with lighting controls, making sure you light the streets only when, where and in the exact amount needed.

Light source optimisation

Lifetime lumen management – with light sources depleting lumen depreciation – a reduction in light output over time. To ensure the minimum required light levels at lamp’s end of life, most lighting design are calculated based on the light level at end of the useful life. This means that the system consumes more power than necessary, wasting as much as 33% of energy on average during their lifetime. Constant Light Output (CLO) is a feature that is integrated into the driver and enabled on demand, thus making it possible for the lumen depreciation of the LED to be controlled throughout its life. This represents extra energy saving without any reduction in light level.

Fine-tuning light level

With the light level requirement for a particular solution varies in between the luminaire package defined by standard luminaire types, it is possible to customize the power level of the luminaire with Adjustable Light Output (ALO). The ALO feature can be programmed to the desired light level. Creating a virtual lamp with a wattage in the range of 100% – 40% of the specified power. Using the ALO feature prevents unnecessary light pollution, and can achieve a significant reduction in energy use.

Dynadimmer

With fixed / pre-set dimming

Lumistep

With fixed dimming

AmpLight

With fixed dimming

LumiMotion

With human based dimming

Control system | User benefit
---|---
Networked

To fully control and monitor each individual light point

D-ALI

- Global universal interface (compatibility)
- On/Off switching
- Strobe dimming
- Provide detailed info on a bar graph
- Synchronised dimming
- Synchronised dimming by lowering the voltage

Stand-alone

To locally set the right amount of efficient light at the right place in the right time

Light level adjustment

Dynadimmer

Lumistep

LumiMotion

- Adjust the light level in the application
- Programmable auto dimming (2 steps)
- Auto dimming (1 step)

* For suitable installations only.
Bath and North East Somerset Council chose an innovative, energy-efficient solution to improve road safety at the Hicks Gate roundabout. SpeedStar, incorporating LEDGINE, provides bright white light to maximise visibility for road users, increase reaction time and improve safety for drivers. With a lifetime of 60,000 hours, SpeedStar also reduces the maintenance and replacement required by traditional lighting, minimising costs and maximising savings.

“Philips’ specialist application of LED technology meant that Bath and North East Somerset Council were able to save energy and reduce maintenance costs without compromising on light quality or driver safety. SpeedStar was at the core of a Philips lighting scheme that improved the experience of road users at the Hicks Gate roundabout.”

Bath and North East Somerset Council

Hicks Gate Roundabout
A4, Keynsham

Product solution:
SpeedStar with LEDGINE

Saved up to 58% in energy costs.

Road lighting

Hicks Gate Roundabout
A4, Keynsham

Product solution:
SpeedStar with LEDGINE
A complete portfolio of LED solutions for all your outdoor lighting needs

Philips LED lighting solutions extend beyond road lighting to also encompass:
- architectural lighting solutions
- city centres solutions
- residential areas solutions
- urban street solutions
- transport and areas solutions

01. Architectural lighting
02. City centres
03. Car parks
04. Residential areas
05. Urban streets
06. Sports lighting
07. Major road lighting
08. Transportation and areas
09. Tunnel lighting