



Road Lighting

Feel safe on the roads

PHILIPS

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.



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.

This brochure is interactive.

Click on the  icon for more information.

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.

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.

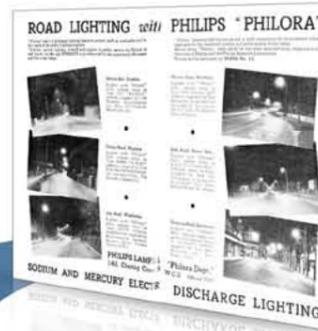
Philips continues to lead the way

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.

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 Philora DC bulbs



1925
Philips Lighting UK established



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

Some British landmarks lit by Philips



St Paul's Cathedral



London Eye



Gateshead Millennium Bridge



Brighton Pavilion



Bullring Birmingham



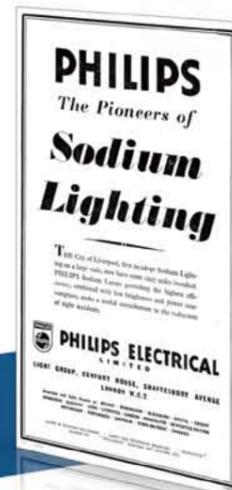
London Olympics

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

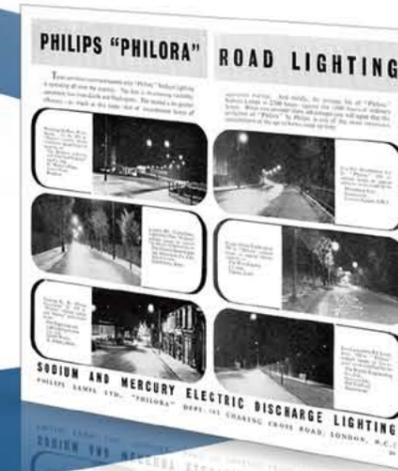
1967
Philips introduces the first ever public lighting competition open to all UK lighting authorities



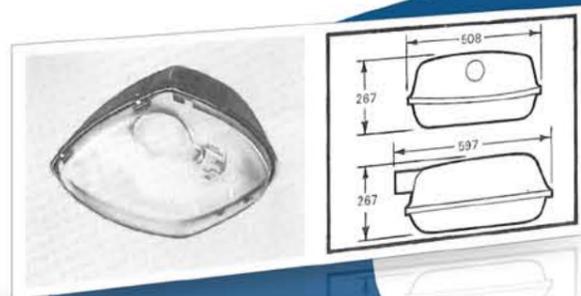
1960s
Invention of SON lamp



1953
Philips have installed over 60 miles of sodium lighting in the city of Liverpool



1938
Invention of the sodium street lamps



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

1990s
Electronic control gear introduced

1997
Philips selected to supply the first PFI projects in Portsmouth, Islington, Barnet and Enfield.

2004
Introduction of Cosmo

2010
Philips carries out the world's first installation of the groundbreaking road LED luminaire SpeedStar in St Helens, Merseyside

2011
Philips acquires Indal WRTL, further broadening its road lighting portfolio.



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

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.

A5 Tamworth >>

Product solution:
SpeedStar with LEDGINE

*At time of introduction. Now improved to 100,000 hours

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

Products

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 >>



SpeedStar



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

Luma 2 and 3



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 OPTIFLUX™ lens optics effectively meets current lighting standards
- Post Top or Side Entry mounting

Iridium²



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

ClearWay



Benefits

- Entry level LED luminaire with lowest initial capital investment
- Slim aesthetic design, perfectly suited to lower mounting heights

Features

- Dedicated design for LED technology
- Philips LEDGINE based technology
- Reduced energy consumption compared to conventional luminaires

MileWide²



Benefits

- Consistency and continuity of family design
- Up to 25% energy savings compared to SON without compromising on quality of light
- Easily serviceable and upgradeable – 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'

Mini Iridium LED



Benefits

- 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

Luma 1 and Mini Luma



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

- Improved glare control
- Constant flux and integral dimming options
- IP66 dual ingress protection

Stela



Benefits

- Highly aesthetic design and state-of-the-art functionality
- Up to 78% reduction in CO₂ emissions
- Can provide high energy savings without dimming or switching off during the night

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

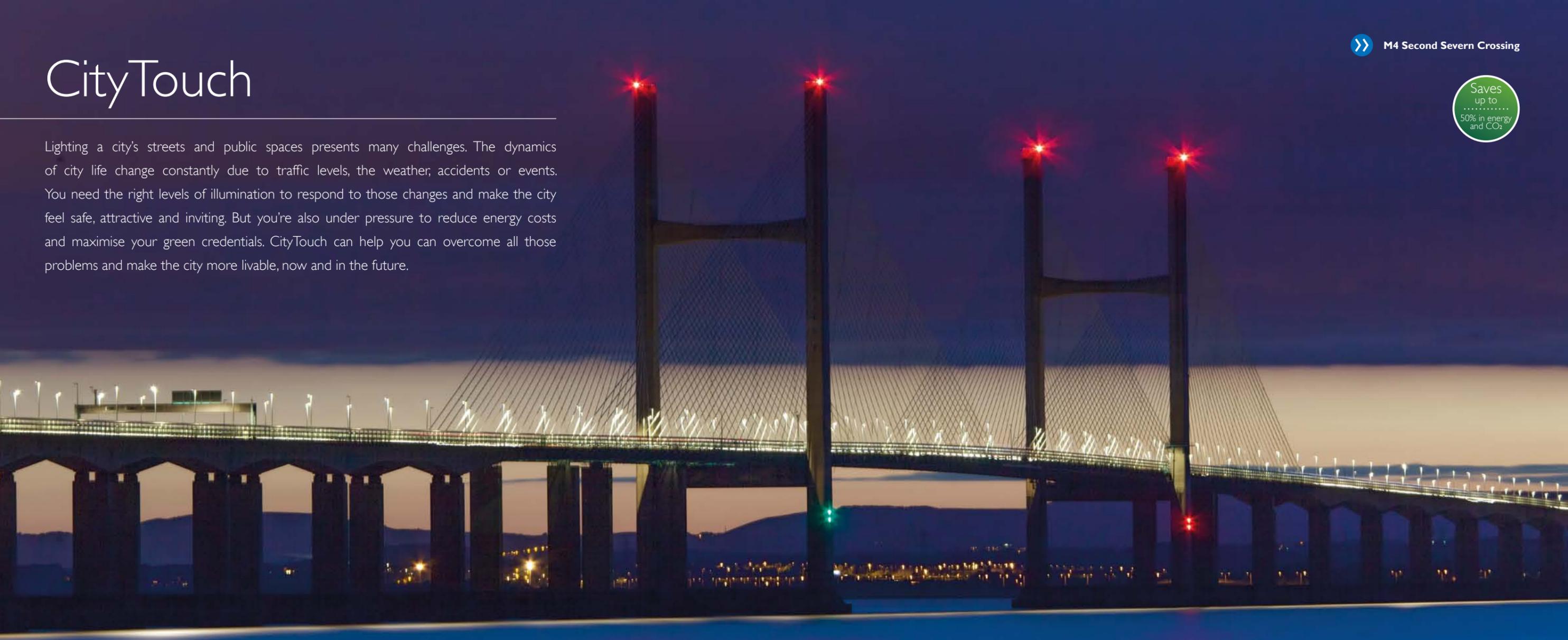
Product solution:

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.

Saves up to 50% in energy and CO₂



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.

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.



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

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.

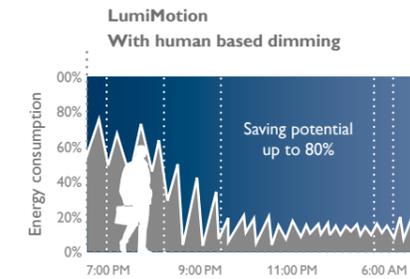
Light source optimisation

Lifetime lumen management

All light sources experience lumen depreciation – a reduction in light output over time. To ensure the minimum required light levels at lamp's end of life, most lighting designs 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 15% of energy on average during their lifetime. **Constant Light Output (CLO)** is a function 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 savings without any reduction in light level.

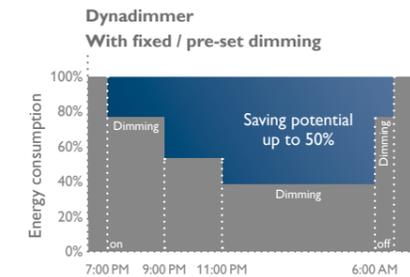
Fine-tuning light level

When the light level requirement for a particular solution falls in between the lumen packages delivered 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% – 66% of the specified power. Using the ALO feature prevents unnecessary light pollution, and can achieve a significant reduction in energy use.



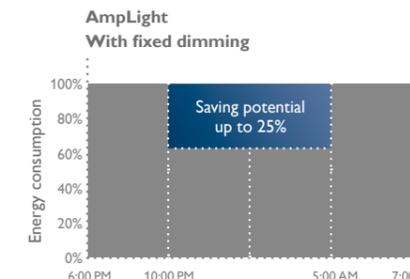
LumiMotion

LumiMotion is a unique solution that minimises light pollution by providing light on demand. Because the luminaires are only lit when needed, this solution maximises energy savings and reduces CO₂ emissions without compromising on street safety. With intelligent dimming LumiMotion also reclaims the night sky, reducing light pollution and preserving darkness for residents, night animals and migrating birds. This solution can generate up to 80% energy savings.



Dynadimmer

An integrated controller included in each light point – operated on electronic equipment and can be integrated into the lantern. It can apply 5 levels of power, (re)definable on the level and duration, per chosen light point. For example, an average energy saving of approximately 50% per year can be realised.



Amplight

Amplight is a cost-effective cabinet-based telemanagement system suitable for new and retrofit installations, that offers advanced remote monitoring of total "health" of cabinets with estimated maintenance savings of 10–15% and multiple energy saving dimming solutions with possible energy savings up to 25–30%.



Lumistep

An integrated controller which lowers the flux of the lamp and power consumed over a period of 6, 8 or 10 hours (3 pre-programmed versions). The potential energy savings (on power system) is up to 25%, depending on the luminaires and light source used.

Control system	User benefits	Control options	User benefits
Networked			
 RF Antenna Starsense	To fully control and monitor each individual light point	DALI 1-10V	<ul style="list-style-type: none"> • Global universal interface (compatibility) • On/Off switching • Stepless dimming • Provide detailed info on lamp system
 Amplight cabinet dimming	To provide Monitoring and control over groups of light points	Mains dimming *	<ul style="list-style-type: none"> • Simple stepless dimming • Simple dimming by lowering the mains
Stand-alone			
	To locally set the right amount of efficient light at the right place at the right time	Light level adjustment Dynadimmer Lumistep Lumimotion	<ul style="list-style-type: none"> • Adjust the light level to the application • Programmable auto dimming (5 steps) • Auto dimming (1 step)

* For suitable installations only

"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

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.

Hicks Gate Roundabout 
A4, Keynsham

Product solution:
SpeedStar with LEDGINE

Saves
up to
58% in energy
costs

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



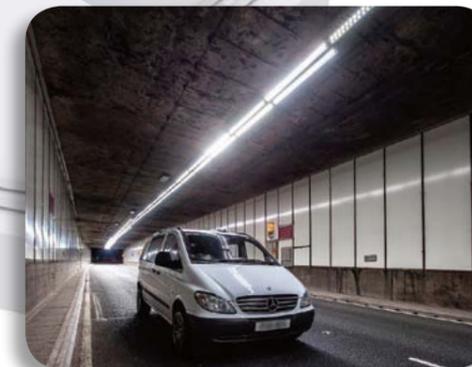
06. Sports lighting



07. Major road lighting



08. Transportation and areas



09. Tunnel lighting



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