Exterior and Public
LED Lighting Solutions
Exterior and Public LED Lighting Solutions
LED lighting is transforming the environment in which we live. It makes roads safer, public areas more welcoming and buildings more aesthetically appealing.

The fantastic energy efficiency of LED dramatically reduces the impact of lighting on our environment by cutting energy consumption and carbon emissions, while at the same time delivering a significantly longer working life.

In terms of options to tackle climate change while achieving numerous other benefits simultaneously, few if any technology investments are better than LED. Rarely has a new technology delivered such a range of benefits – better performance, reduced operating costs, and increased reliability.

The choice of LEDs in the market today is vast. To ensure you obtain the best value for your LED investment, GE offers much more than a constantly expanding range of LED and related technologies, as outlined in this brochure. GE offers the confidence that you are working with one of the most recognised and experienced names in lighting. We have been innovating and leading for over a century, and we are committed to the future of lighting.
GE Lighting’s LED solutions deliver a light closer to natural daylight than the yellow lamps of the past.

- Increased sense of comfort and security
- Streets and car parks are better illuminated
- Enhanced CCTV through better facial recognition
- Improved road safety – better peripheral vision = faster responses

Increased comfort, safety and security
The latest LED lighting solutions provide an ideal upgrade path for public bodies looking to reduce energy costs and environmental impact.

- Up to 70% greater energy efficiency
- Reduced CO₂ emissions vs. older technologies
- Longer life and reduced maintenance requirements
- Enhanced control/dimming capabilities for more cost savings

Energy efficiency for reduced environmental impact
LED can make striking aesthetic improvements to landscapes and cityscapes:

- Colours are more vivid and more real
- Public areas look open and attract pedestrians
- Buildings, bridges and monuments seem transformed
- Light spillage or ‘nuisance light’ is reduced, enabled by the precision of LED
1. **Discovery & Design**
Understanding your business initiatives, goals and objectives. Taking inventory of your infrastructure and technology followed by optimizing design to meet codes, legislation and business goals.

2. **Innovative Systems**
Selecting the best possible technology innovations from a broad portfolio of lighting solution platforms, in collaboration with trusted partners and suppliers.

3. **Seamless Distribution**
Ensuring products are available and on-time with local support networks.

4. **Integration Services**
Providing turn-key installation solutions with our network of partners, from retrofitting to new projects.

5. **ROI Optimization**
Helping you build the business case, reap financial benefits, and secure funds.

**GE Advantage**

Leverage the GE Advantage to optimising your lighting experience.

1. **Discovery & Design**
Understanding your business initiatives, goals and objectives. Taking inventory of your infrastructure and technology followed by optimizing design to meet codes, legislation and business goals.

2. **Innovative Systems**
Selecting the best possible technology innovations from a broad portfolio of lighting solution platforms, in collaboration with trusted partners and suppliers.

3. **Seamless Distribution**
Ensuring products are available and on-time with local support networks.

4. **Integration Services**
Providing turn-key installation solutions with our network of partners, from retrofitting to new projects.

5. **ROI Optimization**
Helping you build the business case, reap financial benefits, and secure funds.
Seventy five per cent of Europe’s streetlights are at least 25 years old, and this presents major opportunities for improvement in terms of both quality of light and environmental savings. Replacing legacy lighting technologies with the latest LED-based lamps and luminaires will deliver immediate white light benefits to drivers and pedestrians alike, improving safety and comfort through improved visibility. And in parallel with this, the inherent efficiency of LED technology offers the potential to reduce energy consumption and associated costs by as much as 70%.

The development of the SLBt fixture provides an easy and attractive upgrade path to all the major benefits of LED street lighting, and represents an outstanding combination of lighting technology, energy efficiency and value for money. Practical and reliable, this is the perfect entry level solution.

**Product recommendations**

**Spinella – single module**

This game-changing LED module can reduce the cost of lighting residential streets and highways by as much as 70%, while reducing glare and improving safety. Other benefits include compatibility with intelligent controls such as GE’s LightGrid™ technology, and outstanding reliability in all weather conditions.

**Odyssey**

The Odyssey LED luminaire is a high performance, controllable road lighting fitting ideal for street and roadway applications, walkways, parks & gardens. This efficient and reliable system offers more than 11 years of service life for an attractive return on investment.

**SLBt**

The development of the SLBt fixture provides an easy and attractive upgrade path to all the major benefits of LED street lighting, and represents an outstanding combination of lighting technology, energy efficiency and value for money. Practical and reliable, this is the perfect entry level solution.

**Street and roads**
Next generation LED solutions from GE Lighting offer levels of energy efficiency unimaginable just a few years ago, but this is only a first step. Creating integrated highway lighting systems fit for the 21st century means taking advantage of the opportunities presented by network-wide controls.

At GE lighting we can help you harness the potential of today’s – and tomorrow’s – intelligent lighting systems. This could mean being able to program each fixture, on every street, brightening areas when more light is needed and dimming them when it’s not.

It could also give you the power to monitor lighting systems in real time and collect the data necessary to optimise performance and even to facilitate analytics and software services for traffic management and beyond.

Product recommendations

<table>
<thead>
<tr>
<th>Spinella</th>
<th>ERS</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="Spinella" /></td>
<td><img src="image2.jpg" alt="ERS" /></td>
</tr>
</tbody>
</table>

This advanced roadway fixture combines the efficiency of LED – up to 70% energy savings vs traditional technologies – with a range of photometric options to meet precise requirements. Other benefits include compatibility with intelligent controls such as GE’s LightGrid™ technology and outstanding reliability in all weather conditions.

<table>
<thead>
<tr>
<th>TL8t &amp; TMBt</th>
<th>LightGrid</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.jpg" alt="TL8t &amp; TMBt" /></td>
<td><img src="image4.jpg" alt="LightGrid" /></td>
</tr>
</tbody>
</table>

These single and double module tunnel lighting fixtures deliver high levels of durability and reliability for a long lifetime, with easy installation and low maintenance costs. Both modules are available in a range of optical combinations for applications such as low and high speed tunnels, underpasses and industrial areas.

LightGrid™ is a ground-breaking outdoor wireless control system for street and roadway lights. This unique technology uses nodes on top of each fixture to enable remote monitoring and control, utility-grade energy metering per pole, and GPS mapping of streetlights. Standalone nodes are also available for dimming functionality.
Urban

A key to any successful lighting solution is to ensure that the light is delivered exactly where it’s needed.

At GE Lighting we have devoted ourselves to developing the most advanced reflective optics on the market, and this means that every outdoor LED fixture from GE delivers the optimum performance in terms of luminance, uniformity and glare.

In practical terms this means the light from our recessed LED arrays is aimed directly where it’s needed – whether that’s on the road, the footpath, or the car park – with less risk of glare and wasted light.

And with a whole range of different photometric options available, we can deliver the right solution whatever the lighting requirement.

Product recommendations

Navona

The Navona fixture combines timeless aesthetics – suitable for any environment – with an advanced LED optical system that ensures light is directly specifically where it’s needed. Add in energy efficiency, low maintenance and compatibility with outdoor controls and the result is a remarkably versatile urban lighting solution.

Okapi

Offering an outstanding combination of aesthetics and functionality, this is an ideal solution for the replacement of luminaries with low energy efficiency. Available in a range of different configurations, the Okapi LED luminaire can be tailored to virtually any outdoor lighting solution: road, street, pedestrian, parks and gardens.
Another key benefit of choosing LED technology from GE is the reassurance of knowing that our rigorous testing and quality control procedures result in maximum reliability for a long working life and low maintenance requirements. A good example of this is the sleek and robust heat sink design that helps remove damaging heat from the LEDs and ensures reliable performance over the long life of the luminaire.

Outdoor environments can be challenging too, with strong winds and wide fluctuations in temperature, so it’s important to invest in a name you can trust. With an expected working life of 50,000 or even 65,000 hours, LED outdoor fixtures from GE Lighting deliver not only an excellent return on investment and low lifetime cost, but also complete peace of mind.

Product recommendations

**AMIx**

The AMIx LED canopy fixture provides a flexible and rapid installation solution for petrol stations, high bays, parking garages, industrial areas and other area lighting application areas. It can be used to replace existing HID luminaires as well as for new installations.

**ALIx**

The ALIx LED outdoor luminaire delivers outstanding features, style and attractive form factor. This latest design offers excellent efficacy even at higher lumen outputs to meet a wide range of area lighting needs. Using reflective optic technology, GE offers superior horizontal and vertical illuminance with high uniformity, while minimizing glare as fixture lumens increase.
GE Lighting is constantly developing and improving its products. For this reason, all product descriptions in this brochure are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, GE Lighting cannot accept any liability arising from the reliance on such data to the extent permitted.