When it comes to lighting community and public applications we have an unrivalled wealth of experience and products.

Our luminaires are designed and manufactured to provide peace of mind. We all need the reassurance that the lighting will remain operational – whatever is thrown at it. To ensure our customers achieve peace of mind, three values are embedded in our DNA:

- Robust and durable
- Service excellence
- Total cost of ownership

Robust and durable
Our luminaires, made from steel or aluminium with specialist polycarbonate diffusers, can resist up to 12.5 times (250 joules) more impact than standard fittings (20 joules). High IP ratings help minimise maintenance requirements.

- High impact and ingress protection
- Robust construction
- Compliance
- Plug and play upgrades

Service excellence
Our team has a great deal of knowledge and experience in developing and delivering lighting solutions for community and public environments.

- Made in Britain
- Bespoke and standard solutions
- Project and design support
- Vast sector experience (Est. 1963)

Total cost of ownership
Our vandal resistant LED luminaires help reduce your total cost of ownership over a project’s lifetime.

- Low energy
- Long operational life
- Sustainable
- Easy to maintain, easy to upgrade
In this brochure, we will identify typical applications focusing on the principles of good lighting whilst also examining the benefits of robust construction and lighting controls to reduce cost of ownership whilst lowering your carbon footprint.

Good lighting can have a significant positive impact on our perception of safety, security, comfort and cleanliness which goes a long way towards guaranteeing equal access for all.

At Designplan, proven methods of ensuring weather and vandal resistance have embraced new technologies to increase performance and reduce energy use and operating costs.

Calling upon six decades of sector experience our robust, high performance LED luminaires are designed for a wide range of community and public applications. Crucially, our existing fluorescent luminaires can be retrofitted to become an energy saving luminaire further to our fundamental philosophy of incorporating removable gear trays which enables you to easily adapt technology upgrades.

Good lighting has the power to transform an environment, whilst at the same time making the best use of energy and our natural resources.

The 4Cs crucial for community and public lighting applications

- Cost of ownership
- Controls
- Construction
- Carbon footprint

All around the world communities are faced with the rapid increase in the urban population.

Energy use and management has become a key sustainable development issue as we collectively aim to reduce our carbon footprint whilst providing safe, secure places to live and enjoy our leisure time in. The way community and public applications are illuminated has changed accordingly.

CALLING UPON SIX DECADES OF SECTOR EXPERIENCE OUR ROBUST, HIGH PERFORMANCE LED LUMINAIRES ARE DESIGNED FOR A WIDE RANGE OF COMMUNITY AND PUBLIC APPLICATIONS.

In this brochure, we will identify typical applications focusing on the principles of good lighting whilst also examining the benefits of robust construction and lighting controls to reduce cost of ownership whilst lowering your carbon footprint.
External and perimeter areas of social housing applications are often seen as just a "means to an end". Yet their importance shouldn't be underestimated as they ensure a pleasant, welcoming and secure environment.

Good lighting inspires feelings of safety and security for residents and helps discourage criminal behaviour. It is important that lighting in external and perimeter applications is especially robust and requires little in the way of maintenance.

Installed lighting needs to withstand extreme weather conditions and incorporate emergency and control functions to ensure luminaires can cope with any situation.

Energy saving is vitally important as external lighting is often running for long periods.

LED luminaires use less energy than equivalent fluorescent fittings and require much less maintenance. This can result in a reduction of around 50-60% on electricity bills. Lighting controls can reduce energy and running costs still further.

Integrated presence detectors turn off luminaires, or reduce light output when a particular area is not occupied. Using lighting controls can also help to extend the life of a luminaire as it is not always operating at a high output level.

When it comes to lighting external and perimeter applications glare must be kept to a minimum. We recommend that the main beam angle is not more than 70°.

Higher mounting heights also enable lower main beam angles, which can not only reduce glare but limit light pollution into neighbouring areas. Lighting levels should conform to CIBSE LG9 and BS EN 12464-2:2014.

Integrated presence detectors turn off luminaires, or reduce light output when a particular area is not occupied. Using lighting controls can also help to extend the life of a luminaire as it is not always operating at a high output level.
For social housing providers, reducing the energy load is vitally important to lower electricity usage and reduce the building’s overall carbon footprint. The use of LED luminaires combined with lighting controls can offer substantial savings, particularly in communal areas where the occupancy levels are low.

Carefully designed lighting provides a positive first impression and goes a long way towards guaranteeing equal access for all, regardless of mobility, disability or sensory impairment. Lighting should provide enough illumination to ensure a safe and secure environment, allowing easy movement around the building, whilst being robust enough to withstand vandalism where necessary.

Social housing providers also have to adhere to very strict emergency lighting regulations. They not only require emergency lighting to be functional at all times, but also necessitate monthly and yearly functional and duration tests on all emergency luminaires.

Well-designed lighting in internal entrances, circulation spaces and the corridors leading to dwellings must be warm and welcoming and should have good uniformity to ensure a bright, attractive environment.

We can provide professional guidance on how you can meet your emergency lighting obligations. For example, we offer a DALI emergency lighting test system called DesignPath that automatically carries out routine testing, records results and reports faults.

For further lighting advice speak to our technical sales team on 020 8254 2022 or e-mail technicalsales@designplan.co.uk


BS EN 62034 and BS EN 50172 relate directly to your legal requirement to ensure your emergency lighting systems are routinely inspected, tested and the test results recorded.

We offer competitive initial purchase prices, low energy luminaires reducing ongoing costs, short lead times, removable gear trays making technology upgrades affordable, and comprehensive warranty.

Why choose Designplan?

Cost of ownership
- Competitive initial purchase price.
- Low energy luminaires reduce ongoing costs.
- Short lead times.
- Removable gear trays make technology upgrades affordable.
- Comprehensive warranty.

Controls
- Tailored to operational needs.
- Creates welcoming environment.
- Reduces energy consumption.
- Helps you meet your regulatory obligations.
- Provide reports as required.

Construction
- Vandal resistant metal bodies and specialist diffusers.
- Tamper proof fixings.
- Removable gear trays enable quick and easy maintenance.
- Proven design and “fit for purpose” application experience.

Carbon footprint
- Highly efficient luminaires, low energy consumption.
- Multiple mounting options to only put light where it is needed.
- Fully controllable luminaires.
Lighting leading up to, and mounted on, public buildings should be designed for amenity and safety. In addition, good illumination provides a welcoming ambiance with clear visual cues to external signage, the whereabouts of thoroughfares and community facilities.

To help maximise accessibility, light levels should be appropriate for the application and with due attention paid to the consistency of lighting in the transition between areas. Sudden changes in light level or illumination character can be disconcerting and disorientating, especially to those with visual impairments.

Lighting with a directional component can certainly bring an element of welcome definition to a lit scene. However extreme care must be taken to ensure that any highlighting or spotlighting is done peripherally and sensitively, to avoid causing difficulties for the visually impaired.

In many situations, lighting can be fully exposed to the elements, making high IP rated luminaires essential. It is therefore particularly important that lighting is especially robust and requires little in the way of maintenance. Moreover, for longevity and to minimise costs, the external finishes of luminaires should be highly resistant to degradation.

Different standards may be referenced dependant on the precise nature of the approach to a public building. This includes BS EN 12464-2:2014 for general outdoor areas including car park spaces and BS 5489-1 Code of Practice for the Design of Road Lighting Part 1. Lighting of Roads and Public Amenity Areas.

Codes of practice will generally specify values of horizontal illuminance. It should be noted that light on horizontal planes is a poor predictor of the impression of brightness perceived by users of the area. Careful and controlled lighting of the vertical façade can dramatically increase the perception that the space is brightly lit and welcoming, far beyond what horizontal illuminance alone can deliver.

It should also be noted that when lighting on a vertical surface, a luminaire mounted on that surface can give dramatically different results to lighting onto a surface from an “offset” position. This should be carefully considered when creating a lighting design as should ensuring upward light is kept to a minimum to control potential issues with light pollution.

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Car park lighting should provide basic levels of visibility. Illumination levels must promote confidence and feelings of safety and security. Ideally lighting should be positioned over and between parked cars to eliminate potential hiding places.

Wide column spacing in outdoor car parks may be counter-productive in terms of light distribution. A higher quantity of lower-output luminaires, more closely spaced, is often preferred.

Vertical illuminance must also be considered to ensure good facial recognition which instills a sense of personal security in spaces that may often be quite deserted. This form of illuminance also helps the effectiveness of CCTV recordings.

Specific areas such as ticket machines, barriers, pedestrian walkways, and signage benefit from highlighting to allow easy location and wayfinding.

Vandal resistance and high ingress protection are vital for luminaires specified in car park applications.

Car parks are often close to local residences, so light spill and general light pollution should be carefully considered and minimised.

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Reference should be made to BS EN 12464-1:2011 for indoor applications. BS EN 12464-2:2014 has guidance for outdoor car parking applications.

To light these areas a range of column, wall mounted luminaires and bollards may be appropriate with close attention paid to light spill.

Why choose Designplan?

**Cost of ownership**
- Robust, long life lighting.
- Competitive initial purchase costs.
- Maintenance costs minimised.
- No lamp changing required.
- Reduced costs for access equipment.
- Short lead times.

**Controls**
- Enables areas to be divided into zones for economy and security.
- Wireless control solutions will reduce installation costs.
- Presence and daylight sensors reduce energy use.
- Good illumination ensures safe, welcoming environment at all times.

**Construction**
- Metal bodies and specially designed diffusers provide vandal resistance.
- High ingress protection.
- Corrosion resistant paint.
- Weatherproof.
- Removable gear trays enables quick and easy maintenance.

**Carbon footprint**
- Reduced light output when not required.
- Highest efficiency luminaires for lowest energy consumption.
- Minimised stray, wasted light.
- Light trespass and pollution reduced to a minimum.

**Technical support**

Reference should be made to BS EN 12464-1:2011 for indoor applications. BS EN 12464-2:2014 has guidance for outdoor car parking applications.

Calculated uniformity should be 0.4 for covered / 0.25 open but care should be taken to avoid, as much as possible, areas of deep shadow between vehicles by careful selection and positioning of luminaires.

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Subways and underpasses can often be associated with "a fear of crime". Good lighting can help alleviate feelings of uncertainty when using such enclosed spaces.

It is particularly important that subways and underpasses are well lit and feel appropriately bright, with a managed transition of illuminance from adjacent areas. Where restricted lines of sight exist, the lighting should be designed to help eliminate any dark spaces.

Subway and underpass lighting may well be on 24 hour operation and could also be subject to unwelcome attention in the form of vandalism. Good lighting inspires confidence and helps discourage criminal behaviour.

It is therefore particularly important that lighting is especially robust and requires little in the way of maintenance.

BS 5489-1:2013 specifies 350 lux during the day, with controls to allow 100 lux at night. These lighting levels take account of the different transition requirements at day or night whilst providing the light levels required to ensure feelings of safety and security.

Vertical illuminance must also be considered to ensure good facial recognition and help the effectiveness of CCTV recordings.

Technical Support
Lighting vertically onto surfaces can also help spaces feel less oppressive and more welcoming.

For further lighting advice speak to our technical sales team on 020 8254 2022 or e-mail technicalsales@designplan.co.uk

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**Why choose Designplan?**

**Cost of ownership**
- Robust and durable luminaires are essential.
- Fully-sealed luminaires simplify cleaning.
- Reduced maintenance costs and energy consumption.
- Competitive initial purchase costs.

**Controls**
- Programmable lighting levels for differing times of day.
- Presence detection reduces energy use and enhances feeling of safety.
- Minimises stray, wasted light.
- RGBW colour changing options create dynamic lighting effects for surfaces.

**Construction**
- Specialist diffusers and metal bodies provide high vandal resistance.
- High ingress protection.
- External finishes of luminaires are highly resistant to degradation.
- Removable gear trays enables quick and easy maintenance.

**Carbon footprint**
- LED luminaires lower energy consumption.
- Lighting controls can further reduce energy use.
- Easy to clean luminaires help maintain light output.
We have enhanced our product range with the latest lighting controls technology that can help create welcoming and safe environments for the community and public spaces.

**Luminaires**

Our luminaires have a number of driver options available including standard switched, DALI and DMX. When connected to a lighting control system, areas can be controlled to provide the right amount of light when occupied, reduce the output and save energy when they are empty.

**DALI lighting systems**

DALI ensures compatibility between products on a lighting control system. The use of DALI presence detectors, photocells and timed control will reduce energy costs.

A DALI lighting control system can provide information on the current status and performance of your standard and emergency luminaires, for maintenance and reporting purposes. The vast majority of our fittings are available with DALI drivers.

**Emergency Lighting**

Compliance testing can be achieved by the use of our DesignPath DALI emergency lighting test system which is available in both wireless and wired versions.

DesignPath will automate the testing process by initiating the required function and duration tests. Compliance reports are automatically stored locally and also sent by email to key personnel.

**Wireless control**

It may not always be practical or cost effective to use hard wired lighting systems that require control cables. DesignMesh is our wireless lighting control system that communicates via radio frequency.

Our range of wireless mesh enabled luminaires and sensors will provide the benefits of a traditional lighting control system with remote monitoring via cloud based servers.

**Control strategy**

A control strategy is based upon the specification requirements specific to areas of a project, defined by the needs of the user, client and lighting consultants.

We can provide solutions using the following control methods:

- Presence activation
- Absence detection
- Timed control
- Daylight linking
- Manual control.

We are able to provide energy efficient solutions for any application by using PIR and microwave sensor technologies for presence detection to work in conjunction with photocells.

We can reduce lighting levels in order to provide the right amount of light when required and to minimise, or switch off luminaires when sufficient daylight is available.

**Emergency Lighting**

The implementation of lighting control strategies can help to ensure the well-being and safety of users, reduce energy requirements and meet compliance obligations.

**Regulatory testing**

The use of lighting control systems to undertake compliance testing provides the assurance that all emergency tests on a site are undertaken and compliance reports are readily accessible. It will also reduce the number of site visits required, saving you time and money.

**Reduce energy**

Designplan can provide control solutions from a single luminaire-based sensor control with daylight and presence detection through to a large scale remote cloud-based monitoring system with full maintenance and reporting features.

Our DesignMesh wireless lighting control system can provide details of the energy usage with real time data of a building filtered down to individual zones. The system can be fine-tuned so that energy can be further reduced for specific areas reducing your energy bills.

**Operational requirements**

A control strategy can be put in place for specific areas to meet the operational requirements of a building.

External circuits may be required to switch on/off at specific times at a specified light output. However, lighting in stairwells may be required to operate using presence detectors, reducing to a low level when there is no activity.

It is important that a lighting control system has the flexibility to meet a building’s needs so that multiple control strategies can be implemented on a single site.
EMERGENCY LIGHTING

System Types

Emergency operation can be via either self-contained integral emergency equipment or central battery systems.

Designplan has been supplying emergency versions of our luminaires for many years and these follow the same rigorous design, development and testing procedures as all our luminaires, and in all cases the entire luminaire is factory certified by us.

Standards


We can provide professional guidance on the requirements for your application.

Testing

We also have full ranges of Auto or Self Test emergency equipment to carry out mandatory testing and monitoring in real time, ensuring that the system is always at peak operational readiness. These systems allow the responsible party to comply with their legal obligations.

DesignPath, our emergency lighting test system, enables tests to be scheduled at any time and date without disrupting the building’s users. DesignPath can be connected to a building network with push e-mail reports sent via the network or 4G router connection.

UK Building regulations and associated Approved Documents stipulate that all escape routes, and many other areas, should be provided with emergency lighting in the event of failure of the normal lighting supply. Emergency lighting allows occupants to use escape routes by providing way finding and illumination.

In it for the long haul

Rest assured, you can rely on our luminaires to stand the test of time. We never “turn our back” on a Designplan luminaire.

Our precision engineered retrofit gear trays will upgrade your installed lighting, whether it is traditional fluorescent or early adoption LED.

Updated warranty

We are so confident in our replacement technology upgrades that we will renew the 5 year warranty of your complete luminaire following a site survey.* To provide further peace of mind, your newly retrofitted luminaire will retain its CE mark.

To discuss your retrofit requirements call 020 8254 2022 or e-mail technicalsales@designplan.co.uk

* Offer contingent to the recommendations from our site survey. This may include reusing or replacing some or all of specific components e.g. diffusers, depending on current condition.
COMMUNITY & PUBLIC LIGHTING | ILLUMINATING THE PUBLIC REALM

SECURITY OF SUPPLY & THE DESIGNPLAN WARRANTY

Our expert team can provide you with a no obligation lighting assessment. We will suggest easy ways to save energy and lower maintenance costs, whilst meeting all your regulatory requirements.

One of our technical sales team will visit your site to conduct a thorough survey of your current lighting arrangements, and assess your premises for potential energy savings.

Our expert team will send you a site survey pack which will include, as required, a lighting scheme, recommended luminaires and or LED gear tray replacements and a costed design proposal.

Our expert team has been designed and manufactured in the UK by Designplan Lighting since 1963. Our full product warranty* covers a minimum period of 5 years with no complicated sign up processes or clauses.

Security of supply
Designplan is a well-managed business that is financially sound, running good working capital and cash flow.

We are part of the Fagerhult family which is Europe’s second largest lighting group. Fagerhult encourages an entrepreneurial culture. This allows us to run the business to suit our sectors, with the support of the group to leverage economies of scale where needed. We stay an agile business that can focus on local customer needs with the support and benefits of being part of a larger group.

Full product warranty
Our full product warranty covers a period of 5 years*. As an original equipment manufacturer we are also able to offer extended warranties which are project specific.

Retrofit warranty
We never “turn our back” on a Designplan luminaire. Following a site survey we can upgrade your installed luminaire, whether it is traditional fluorescent or early adoption LED, as our fittings come with a removable gear tray.

We will renew the 5 year warranty of your complete luminaire following a site survey**.

Please refer to www.designplan.co.uk/terms-and-conditions for full details of our terms and conditions of sale.

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SITE SURVEYS

This no obligation service, provides you with factual information to allow you to make a fully informed decision about your lighting requirements. We never “turn our back” on a Designplan luminaire. Following a site survey we will renew the 5 year warranty of your complete luminaire*.

To arrange a site survey call 020 8254 2022 or e-mail technicalsales@designplan.co.uk

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Our technical sales team is a resource highly valued by our customers. With a wealth of experience, our technical sales team can model your applications virtually and recommend products to suit your needs.

Services include:
- Site surveys.
- Best practice recommendations.
- Bespoke products.
- Providing lighting designs from industry standard platforms such as Relux or DIALux.
- CIBSE accredited CPDs.
- Supplying technical and photometric performance details.
- Providing BIM models.
- General technical advice and support for Designplan products.

To speak to our team call 020 8254 2022 or e-mail technicalsales@designplan.co.uk

We’ve been making robust luminaires in the London Borough of Sutton since 1963. Product testing is a vital element in the design of our luminaires. Our fittings start as concept designs, utilising 3D CAD software, and are then fully tested in our in-house laboratory.

Manufacturing cycle
Our production processes utilise advanced robotic and automated machines together with highly skilled operators. After forming, luminaire bodies flow into our paint plant to apply the finishes which will protect them from the harsh environments they will operate in. The remaining stages of our manufacturing cycle are assembly, testing and despatch.

Our manufacturing workflow uses LEAN methodology to reduce waste in time and materials and help us continually improve our products.

Low carbon footprint
We are accredited to the ISO 9001 Quality Management and ISO 14001 Environmental Management systems. Our purpose built high quality manufacturing facility (designed by ourselves) has helped us reduce our carbon footprint.

Rain water harvesting, solar panels, material recycling and plastic reduction have resulted in our facility being awarded the BREEAM ‘Excellent’ accreditation.
Designed to last:
Our community and public lighting luminaires are robustly constructed, reliable, simple to install and easy to maintain.

FROM DESIGNPLAN

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