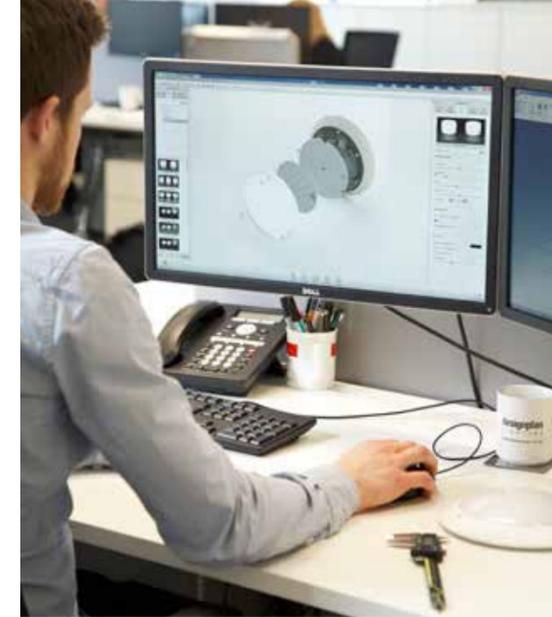


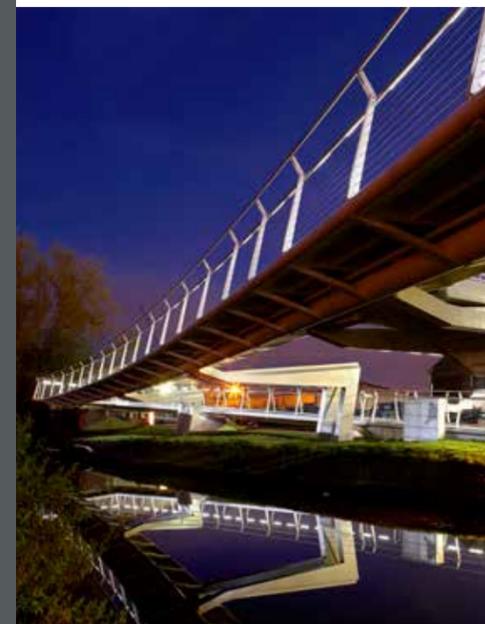
# designplan

L I G H T I N G

**Designplan Lighting's vision is to be our customer's first choice supplier of robust, highly efficient luminaires, specifically designed for applications in transport, social housing, custodial, secure healthcare and urban environments.**



**designplan**  
L I G H T I N G





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For full terms and conditions of sale please visit our website.

We practice a policy of continuous improvement and reserve the right to amend product specifications without prior notice.

All images are for illustrative purposes only.

E&OE.

King's Cross ↑  
Underground

## About us



1963-1983



1984-2013



2014 onwards

It all started in 1963 with an idea for a great product.

An extra strong light fitting engineered to withstand the most severe environmental conditions, perfect for transport, social housing and custodial settings.

Over time, with our team of expert engineers and product developers, we raised the bar in design and innovation. We've continually pushed forward with the latest techniques and materials to set the industry standard in robust, weather and vandal resistant products.

Over fifty years later, Designplan Lighting currently has more than 140 employees, and sales in more than twenty countries worldwide. Project applications range from rail and metro stations, social housing complexes, custodial environments, secure healthcare facilities and urban areas where robust lighting is demanded. Designplan products are consistently recommended by our loyal customer base of designers and installers on large infrastructure projects throughout the world.

Pioneers in LED lighting, our comprehensive portfolio includes an extensive range of energy-efficient solutions for clients requiring environmentally friendly or low maintenance fittings. To allow technology upgrades and extend product life, retrofitting LED elements into existing fittings can be a few minutes work.

Since 2011 we're proud to be part of the Fagerhult group, one of the fastest growing lighting groups in Europe. Our robust light fittings complement their existing ranges, providing world class products for the toughest environments.

In August 2014 we moved to a purpose-built factory, allowing us to leverage further investment and position us for continued future growth. We now operate in a high quality manufacturing facility with a low carbon footprint. This is achieved by a highly efficient building fabric, state of the art building services and on-site renewable energy generation, resulting in a BREEAM 'Excellent' accreditation for the facility.

In 2014 we moved to a BREEAM excellent accredited facility





## Manufacturing

We've been making our robust (weather and vandal resistant) luminaires in the London Borough of Sutton for over fifty years. During that time our design and manufacturing processes have been continually improved to ensure that we repeatedly produce superior products. That solid base of experience, coupled with the ability to leverage the resources of one of Europe's biggest lighting groups, allows us to continue towards our goal to be a UK based, world-class manufacturer.

Our products start as concept designs utilising 3D CAD software. Those are converted into working prototypes which are tested for performance using our in-house test equipment including a photometer. The prototypes are further developed by our engineers to ultimately result in manufacturing instructions for our skilled production teams.

Our production processes utilise a mixture of advanced CAD and robotic machines together with highly skilled operators. A variety of automated punching presses and fabrication machines ensure our production processes are both efficient and accurate. After forming has been completed, 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 stage of the cycle has products moving into our assembly areas for final finishing and testing, prior to despatch to our customers.

Our manufacturing workflow uses LEAN methodology to reduce waste in both materials and time, ensuring that lead times are minimized and prices remain competitive. Additionally we are accredited to the ISO 9001 Quality Management standards, and regularly invest in staff training and apprenticeships to ensure our workforce skill-sets are of the highest standards. The factory has VDE "approved place of manufacture" accreditation.





## Extreme fittings for extreme environments



### Section 12 and 1-085 compliance.

Luminaires supplied to subsurface rail stations must follow a strict set of safety standards. Designplan has been fulfilling these requirements for more than twenty-five years. These fittings must be as robust and durable as our standard products, with extra specifications for fire safety and flammability.

Several of our products are compliant with the Fire Precautions for Subsurface Railway Stations Regulations' 1989 (UK) and 2009 (England only), commonly known as Section 12. They also meet the London Underground subsurface standard 1-085 and feature glass (rather than plastic) diffusers, low smoke cables and a compliant paint finish.

These specifications and standards are often referenced in projects throughout the UK and across the world.

### Anti-ligature and burns test

Anti-ligature is a key requirement of specifiers in the custodial sector. We've developed many luminaires specifically for custodial applications. Many of our custodial fittings are HMPPS (Her Majesty's Prisons and Probation Service) 'safer cells' compliant and are specifically designed to help prevent harm to cell occupants and staff.

Designplan fittings are already well-suited to custodial environments with tough bodies, vandal resistant diffusers and tamperproof screws. However, our custodial fittings go several steps further. Their bodies are fitted flush to the mounting surface, ensuring there is no gap for anything to be inserted. Ligatures will naturally slide off surfaces rather than stay attached. Diffusers are sealed in tightly to prevent insertions.

Prison cell fittings are also tested for flame resistance. Specially designed diffusers will resist extended periods of naked flame attack, preventing any risk of holes being created which could be used to attach ligatures.

For more information, please visit [www.designplan.co.uk](http://www.designplan.co.uk)

### Lifetime guarantee

A unique offering from Designplan.

We will repair or supply a replacement for any standard, non-modified vandal resistant luminaire rendered inoperable due to physical abuse, for the lifetime of the installation.

For full details of this offer and details of which products this may be applied to, (generally to IK16/150 Joule rated products) please contact customer services on +44 (0)20 8254 2020.

Your statutory rights remain unaffected by this offer.

### Bespoke design

Despite Designplan's broad range of products for sector specific and general applications, there are still some projects where our standard luminaires do not quite provide the desired solution. For many years now we have recognised this need, and have worked closely with customers to alter our existing fittings to exactly match their requirements.

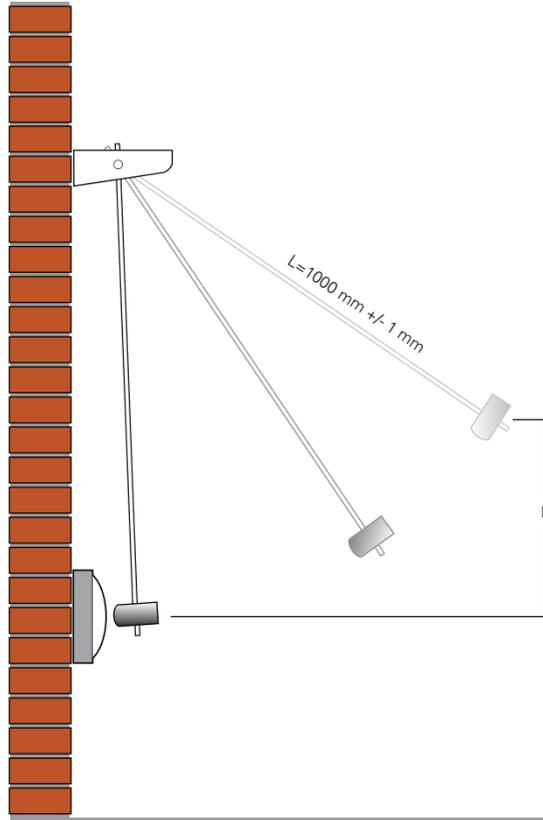
Whether it's a modification to a standard product in our range or a completely new design, we have the capabilities to create the perfect fitting for your project.

If you require a specially made fitting or amendments to an existing one, please contact technical sales on +44 (0)20 8254 2022.

For more information, please visit [www.designplan.co.uk](http://www.designplan.co.uk)



# From a position of strength



## IP and IK ratings

IP and IK ratings are international standards describing a products' resistance to the environment in which it is used. IP ratings (International Standard IEC 60529-1:2003) refer to a how resistant to ingress of water and particulates a product is, and IK ratings (International Standard IEC 62262:2002 and IEC 60068-2-75:2014) note how much mechanical impact a product can resist.

The IP rating is divided into two numbers – the first number defines a product's resistance to the ingress of particulates or foreign objects, whereas the second refers to water resistance, varying from a few falling drops to complete immersion under pressure.

Almost all Designplan products have high IP and IK ratings, but our experience has taught us that IK10 is inadequate against the sort of vandalism our products face on a regular basis. By testing to the EN60068-2-75 standard using a pendulum hammer, we have extrapolated the ratings from the 20 joules (IK10) rating all the way up to 150 joules of impact (IK16).

HAMMER WEIGHT	HAMMER HEIGHT	IMPACT ENERGY	IK RATING
1.7kg	300mm	5 joules	IK8
5kg	200mm	10 joules	IK9
5kg	400mm	20 joules	IK10
10kg	350mm	35 joules	IK11
10kg	500mm	50 joules	IK12
10kg	750mm	75 joules	IK13
10kg	1000mm	100 joules	IK14
10kg	1250mm	125 joules	IK15
10kg	1500mm	150 joules	IK16

If you have any questions about the weather and vandal resistant features of our products, please contact us on +44 (0)20 8254 2020.

## Corrosion resistance

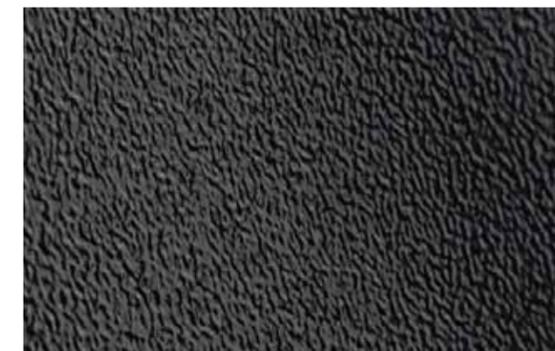
Not only are the bodies and diffusers of our products built to resist considerable impact, the paint we coat them with is as well.

First we clean our unpainted product bodies thoroughly using an etching low foam heavy duty cleaner and a two-stage demineralised water rinse. This removes any trace of dirt or residue from the bare metal and provides a key for the subsequent finishing.

Next comes the polyester powder coat, a free-flowing dry powder that is electrostatically applied to the metal. This is dried and sealed in our drying ovens to provide a tough skin. This finish is incredibly hard to remove, needing a sand blaster or 1500°C oven to make a mark.

We also use an accelerated corrosion test on our paint finishes. The surface is cross scribed and placed in a salt spray test cabinet before being sprayed with an atomised saline solution. This rapidly simulates extended exposure to corrosion over the life of the product. Our finishes last for over one thousand hours in these extreme simulation conditions, with no significant delamination or rust creep.

If you have any questions about the corrosion resistant coatings on our products, please contact us on +44 (0)20 8254 2020.



## Lighting that lasts



### Giving the green light

As a manufacturer of long lasting luminaires our outlook is always towards the future, which is why we take our environmental responsibilities very seriously.

Starting with our factory, we've been carrying out a programme of energy reductions since 2010. By working smarter and making best use of our resources during the assembly process, we've significantly reduced annual electricity and gas consumption. We're also certified to the ISO 14001 environmental quality standard, meaning our manufacturing and assembly methods are in accordance with EU regulation and best practice.

Since 2010 we've reduced the annual fuel consumption of our fleet of commercial vehicles by over 40%. Much of this has been achieved through instigating our 'round trip' programme, ensuring our vehicles follow a direct delivery route to site and minimise any wasted time or fuel. As well as reducing our emissions, safety is also a key concern and we're now members of the Fleet Operator Recognition Scheme (FORS) at the silver level, ensuring we operate safe and efficient deliveries in London.

### Fit and forget

We design light fittings to last. A longer working life results in our customers minimising their material and commodity usage. Even in the most demanding environments, such as prisons and police cells, after decades of use our fittings can still be relied on.

Sparta fittings were supplied to Tyne and Wear's Nexus Public Transport system close to thirty years ago, and as a result of technology upgrades they're still going strong!

### Reduce, reuse, relamp

Our luminaires have always been designed for many decades of regular service, but that doesn't mean we don't give consideration to when they do eventually need to be retired and recycled.

A typical Designplan fitting will be made of aluminium or folded steel, coated with polyester powder coat, and fitted with a polycarbonate or glass diffuser.

All of these materials are easily recycled, both during the manufacturing processes and after the useful life of the fitting. Any excess steel punched and cut during manufacture is collected and recycled, and polyester paint is recycled on site, as any powder coat overspray can be collected and reused on future applications. Polycarbonate and glass components can be recycled for melting and remoulding and with many of our recycled components we are often able to reuse the same packaging materials they were delivered in.

The longevity that LED lamps offer is remarkable compared to older lamping options, and the technology is improving every day. 50,000 hours of use compared to 8,000 hours for a fluorescent fitting significantly reduces maintenance requirements and provides a greener, more cost-effective result.

All our non-LED products can be retrofitted with an LED gear tray, adding many years of useful life to a fitting and reducing its energy use instantly.

For more information on LED retrofitting, go to page 270.



# Extreme weather and high temperatures



## Designed for the conditions

The robust construction of our luminaires ensures they can cope with all types of weather. High ingress protection, corrosion resistant paint, robust steel bodies or LM6 aluminium castings and extrusions are key components of our "fit and forget" ethos.

For the Port of Dover, on the South East tip of England, we designed bespoke luminaires to warn ferries that smaller vessels were in their vicinity.

Our oven-baked paint finish is proven to resist salt corrosion, ideally suited to this specialised coastal application. For more information on corrosion resistance and salt spray testing, please go to page 21.



## Keeping cool in the heat

Our luminaires regularly operate in ambient temperatures ranging from -25°C to 25°C. In some cases our fittings are required to operate in ambient temperatures as high as 50°C.

We offer several luminaires tested and proven to withstand regular temperatures of 40° or 50°C. These luminaires are subjected to a thorough assessment process in our in-house testing laboratory.

**HT** Look out for this icon shown throughout our catalogue. The lamp options table will detail what temperature level a luminaire has been tested to.

For a full list of the iconography used in our catalogue, please go to page 79. To find out more about our other testing facilities, please go to page 266.

# Lighting controls

Using a lighting control system can improve the quality of illumination as well as reduce energy consumption.

Control systems allow the use of light in the required place, at the right time and in the optimum quantity.

Flexibility is important when planning new lighting. In many healthcare buildings for example, the lighting requirement changes several times during the course of a day.

An intelligent and easy to manage installation with pre-programmed lighting levels, preset scenarios or occupancy detection is very beneficial. It allows the lighting system to respond to the uses of the space and the needs of the user. This enables illumination in these types of premises to be utilised to the full.

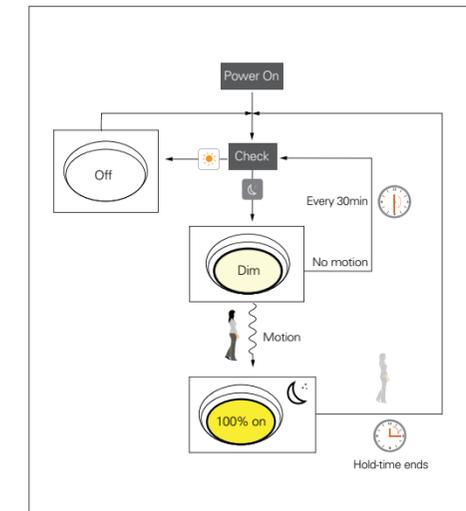
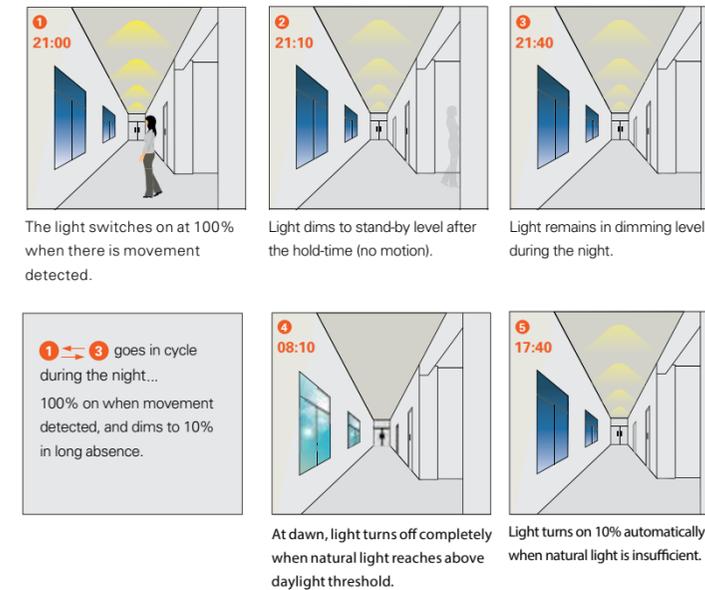
A daylight linked control system can enable artificial light to complement daylight. On a dull day artificial light can illuminate a space that predominantly uses daylight, or add to daylight when it does not penetrate.

The daylight monitoring example below shows the benefits of using a built-in daylight and movement sensor.

Designplan can supply an energy efficient solution for any application; including dimming, presence-detection switches and daylight sensors. These additions can reduce costs by as much as 70% and avoid unnecessary energy being used.

For details of the light controls listed in our catalogue, as well our emergency control gear, please go to page 269.

## Daylight monitoring



### Demo settings

Hold-time: 10 min

Daylight threshold: 50 lux

Stand-by dimming: 10%

# Anatomy of a linear Tuscan



### Tamperproof screws

The screws on our fittings are equipped with specially designed screw heads making them very difficult to remove or tamper with. They require a matching screw driver which is supplied with the product.

### Folded steel

Heavy gauge Zintec coated steel enters our factory in sheets and is subsequently folded, cut and punched by our machines. It's then welded into a tough, solid box for the gear tray, lamps and diffuser to be mounted into. Our steel frames will resist the highest levels of vandalism and weather ingress.

### Choice of lamps

Our fittings have a variety of lamping options with the majority now based around long lasting LED.

### Diffuser

We offer various diffusers and lenses for different optical characteristics. Injection-moulded polycarbonate diffusers ensure reduced glare. Opal, prismatic, frosted and glass options are also available for some fittings.

### Corrosion resistant coat

Polyester powder paint is applied electrostatically and then cured under heat to allow it to flow and form a 'skin'. It gives a hard finish that is much tougher than conventional paint.

### Removable gear tray

Virtually all of our fittings incorporate a plug and socket, allowing easier maintenance and retrofitting of new boards into older luminaires. A popular feature for upgrading to our LED replacement gear trays!



# Anatomy of an LED CE Spotlight

## Advanced LED technology

We use premium LEDs that give excellent luminous efficacy and colour rendering results, as well as high quality circuit boards.

## Integral LED driver

Our LED fittings come with an integral driver, which is thermally separated from the LED array to ensure long life.

## Corrosion resistant coat

Polyester powder paint is applied electrostatically and then cured under heat to allow it to flow and form a 'skin'. It gives a hard finish that is much tougher than conventional paint.

## Toughened glass diffusers

As well as polycarbonate diffusers we offer glass options for many of our fittings. Toughened glass is suitable for walk and drive over in many of our uplighters.

## Built to last

Die cast aluminium castings are strong, durable and impact-resistant. They are also an excellent thermal conductor which aids cooling and extends the product's life. We use marine-grade aluminium as standard.

## Optimum thermal management

All LED luminaires are manufactured with thermal management in mind. Where required a high grade aluminium heat sink is employed to dissipate the heat created.

## 5 year guarantee

All Designplan LED fittings come with a standard 5 year guarantee which covers both the LED array and the driver. Full product guarantees are available on some LED products.



CEB150

## Anatomy of an anti-ligature Basilica

### Anti-pick mastic

This can be applied directly between the wall or ceiling and the luminaire body during installation.

### Anti-ligature body

The Basilica has been designed to stop the diffuser being compromised or prised loose, and the sloped design of the body ensures no sharp edges that ligatures could grip onto.

### Vandal resistant diffusers

Our diffusers will resist extended periods of physical attack, reducing the risk of self-harm occurring. They also have high IP and IK ratings.

### BASILICA

### Integral removable gear tray

This enables future technology upgrades.

### Tamper proof screws



### Anti-ligature design



## Anatomy of a subsurface rail section 12 and 1-085 compliant Mission

### Low smoke/zero halogen cables

All London Underground subsurface standard 1-085 compliant fittings have to use low smoke and zero halogen emitting cabling, to prevent air becoming toxic in the case of a fire.

Designed in accordance with fire precautions for subsurface rail stations (Section 12).

### MISSION S12

### High IP65 rating

They also have to have a high IP rating to prevent ingress of particulates commonly found in the subsurface rail environment (brake dust particulates for example).

### Glass diffuser

Diffusers must be toughened and laminated glass to prevent harm to passengers and staff during a fire.

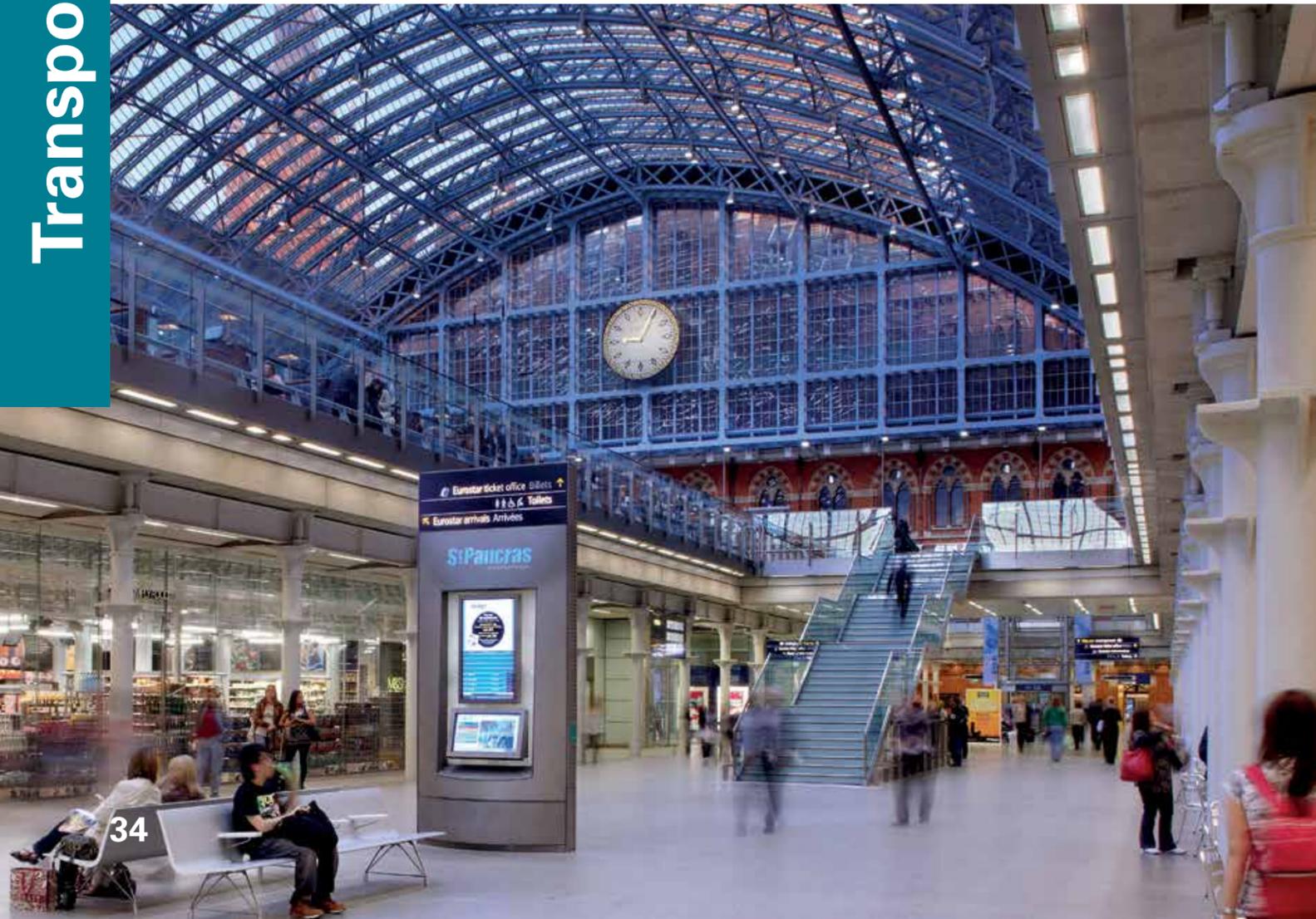


# Transport

When it comes to lighting transport applications, and in particular surface and underground railways, Designplan has an unrivalled wealth of experience and products to offer.

Over the last 50 years Designplan has worked on some of the most prestigious transport projects in the UK and beyond.

Designplan's products are specifically designed for the demands of the rail sector, and have an enviable reputation for robustness, vandal resistance and low maintenance. They are built for longevity of operation in harsh environments, but we also appreciate the importance of ensuring that high product efficiency contributes to safer environments.



Since then, we have supplied thousands of light fittings to railway infrastructure contractors around the world, including numerous station projects throughout the UK.

Most recently our focus has been on extensive supply to many of the London Crossrail projects, plus the London Bridge Thameslink upgrade, where we have provided the majority of the lighting.

Outside of London, recent major projects include Birmingham New Street and multiple major upgrades on the East Coast route. For that, we provided a single point of supply and offered solutions based on a combination of both standard and bespoke products.

However, our experience of lighting stations is by no means limited to the UK alone.

We have completed many overseas surface rail projects; including Grand Central Station in New York City, Dan Helder Terminal in Holland, Poznan in Poland, the Kolsaasbanen in Norway and SNCF workshops for RFF - the French national rail contractors.

A recent success was obtaining products approved for use by Deutsche Bahn, in Germany.



Designplan have provided lighting solutions to a vast number of underground and metro systems.

During our 30 years of collaboration with London Underground a great number of project objectives have been met by our products. We have supplied lighting to projects across the whole of the network including the major recent upgrades to Victoria and Tottenham Court Road stations.

Our robust, low maintenance light fittings have consistently complied with London Underground's subsurface standard 1-085 (Section 12). This includes stringent IP and IK ratings as well as low smoke cable requirements and glass diffusers.

As a result, many of our products are in the London Underground Products Register, including our latest LED fittings.

In addition we have worked extensively with underground rail systems elsewhere, including the multi-million pound renovation of Strathclyde Public Transport, Liverpool's Merseyrail and the Newcastle Metro.

International projects include St. Denis, Stade de France Station in Paris, Metro North in New York City, Heyzel, Demey, Lemonnier, Porte de Hal in Brussels and Guangzhou in Guangdong, China.

Currently we are in the process of supplying the majority of the lighting for the 17 station CityLink project circling Copenhagen in Denmark.

Rail specific products include the popular Mission, Terminus and Tuscan – which has been supplied for over 25 years and is still going strong as a result of being upgraded to the latest LED technology.

We not only offer individual luminaires, but also complete systems, such as Mission CMS (Cable Management System). Furthermore, many of our products can also be supplied and retrofitted with LEDs, significantly reducing running costs.

In addition to our product expertise we understand the unique requirements involved in lighting railways and transport terminals. Our staff have an in-depth technical knowledge of the challenges and compliance issues surrounding such projects, meaning we can recommend lighting solutions with confidence.



## Case Study

### Crossrail: Illuminating the platforms

#### Crossrail is one of the largest infrastructure projects of its kind currently being undertaken in Europe.

It is building 42km of tunnels, 10 new stations and improving 30 more. The finished railway, which will be named the Elizabeth line when it opens in central London in 2018, will be an accessible route of 40 stations from Reading and Heathrow in the west to Shenfield and Abbey Wood in the east.

Designplan have supplied lighting solutions to several Elizabeth line stations including Canary Wharf, Bond Street, Liverpool Street, Tottenham Court Road, Whitechapel and Farringdon.



The platform at Canary Wharf

"Many considerations had to be taken into account by Designplan for a project of this scale" says Lee McCarthy, Technical Applications Director at Designplan Lighting. "This includes accessibility and the requirement for architecturally pleasing lighting".

Designplan were asked to look at the platform lighting in 2013. "The architect had a specific vision of how the platforms should be lit" says Lee. "To achieve this we designed a light box to illuminate the platform edges".

Each light box is 1.5 metre wide by 1 metre high, weighing about 90 kilos with a design life of 30 years. They produce an output of over 6,000 lumens, whilst consuming the energy of a 60 watt household lamp!

Approximately 150 light boxes are required for a platform, so a key consideration was to make maintenance quick and hassle free.

"For easy maintenance we designed a hinged LED array system to provide access from below" explains Lee. "Using LEDs also provides significant energy savings, as they last up to five times longer than traditional fluorescent lamps, reducing the overall cost of ownership".



#### Meeting high standards

"The regulations affecting all luminaires specified by Crossrail, are contained in a document practically an inch thick" explains James Coma, Project Manager at Designplan Lighting.

"Accordingly all our light boxes are designed in accordance with the Fire Precautions (Subsurface Railway Stations - England) Regulations 2009, commonly known as section 12, and comply with London Underground's subsurface standard 1-085. The light boxes were rigorously blast and fire tested, assessed for electro-magnetic field interference and impact, ingress and safety tested".



#### Adapting to the needs of the project

"Having our manufacturing facility and design team on site enabled us to adapt to the needs of the Crossrail project" explains Lee.

"For example, we collaboratively developed the brackets for the light boxes as well as a method for mounting them. This was tested at our factory to ensure ease of installation prior to being installed on site."

In addition, a new production line was created and a reusable metal packaging system was designed for securely delivering the light boxes and minimising waste".

Standard and bespoke luminaires have been installed throughout the Crossrail project including (from left to right) PES light boxes, Flair, Terminus and Terminus Wall.

# Recommended luminaires

Transport



Transport

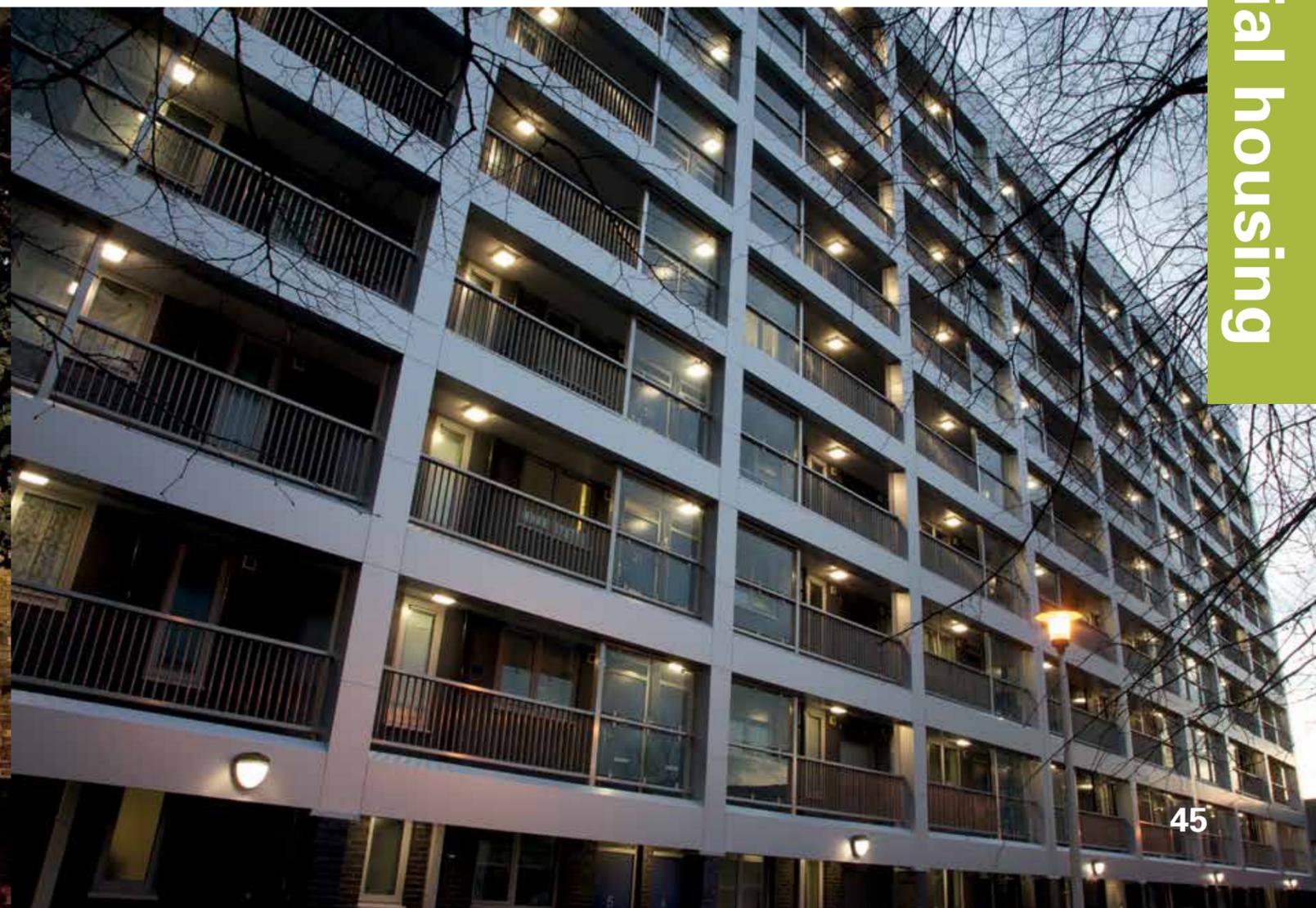
# Social housing

Designplan has been at the forefront of providing purpose built lighting to meet the needs of the social housing sector for over 40 years.

From warden assisted homes for the elderly to the most challenging high rise blocks, we have the experience and high quality products to suit various social housing applications.

The global population is growing at an ever increasing pace and the need for housing has never been higher. In the UK, we're working with many local authorities and housing associations to provide lighting solutions for the upgrade of the nation's housing stock.

With this expansion of assets, total cost of ownership is a key consideration for property owners, and Designplan's range of energy efficient, robust fittings are a great fit.





"Best overall"  
Lux Magazine, June 2013.



QUADRANT

We understand the need in social housing for well-lit, communal areas to ensure the safety and well-being of the residents, and our Quadrant family of products is a popular choice.

First introduced in 1982, and after three decades of improvements and upgrades, it remains one of our most popular ranges due to its broad range of housing applications.

We are very experienced at supplying the Quadrant to projects of differing scale, including 8,000 fittings on one project alone where a constant supply to site on an 'as needed' basis was required.

With high IP and IK ratings and equally suited to wall or ceiling mounting, the Quad family is often specified for exterior and interior walkways and perimeter lighting.

We extended our Quad range by introducing **QuadEvo** a contemporary, robust bulkhead fitting with uniform light distribution of 104 luminaire lumens per circuit watt.

LED only, **QuadEvo** uses significantly less electricity than traditional fluorescent fittings potentially reducing your annual energy costs by up to 60%.

Existing fluorescent Quadrant installations can also benefit from the energy savings achieved by LED thanks to our core design philosophy of using removable gear trays.

Our **QuadRetro** service pack enables you to upgrade your existing Quadrant 2D luminaire to an LED version in less than 90 seconds. For more information go to pages 190 and 191.



"The toughest of the lot"  
Lux Magazine, May 2015.



QUADEVO



QUADRETRO



QUADRANGLE



QUADRING



QUADRIGA



QUADRATO





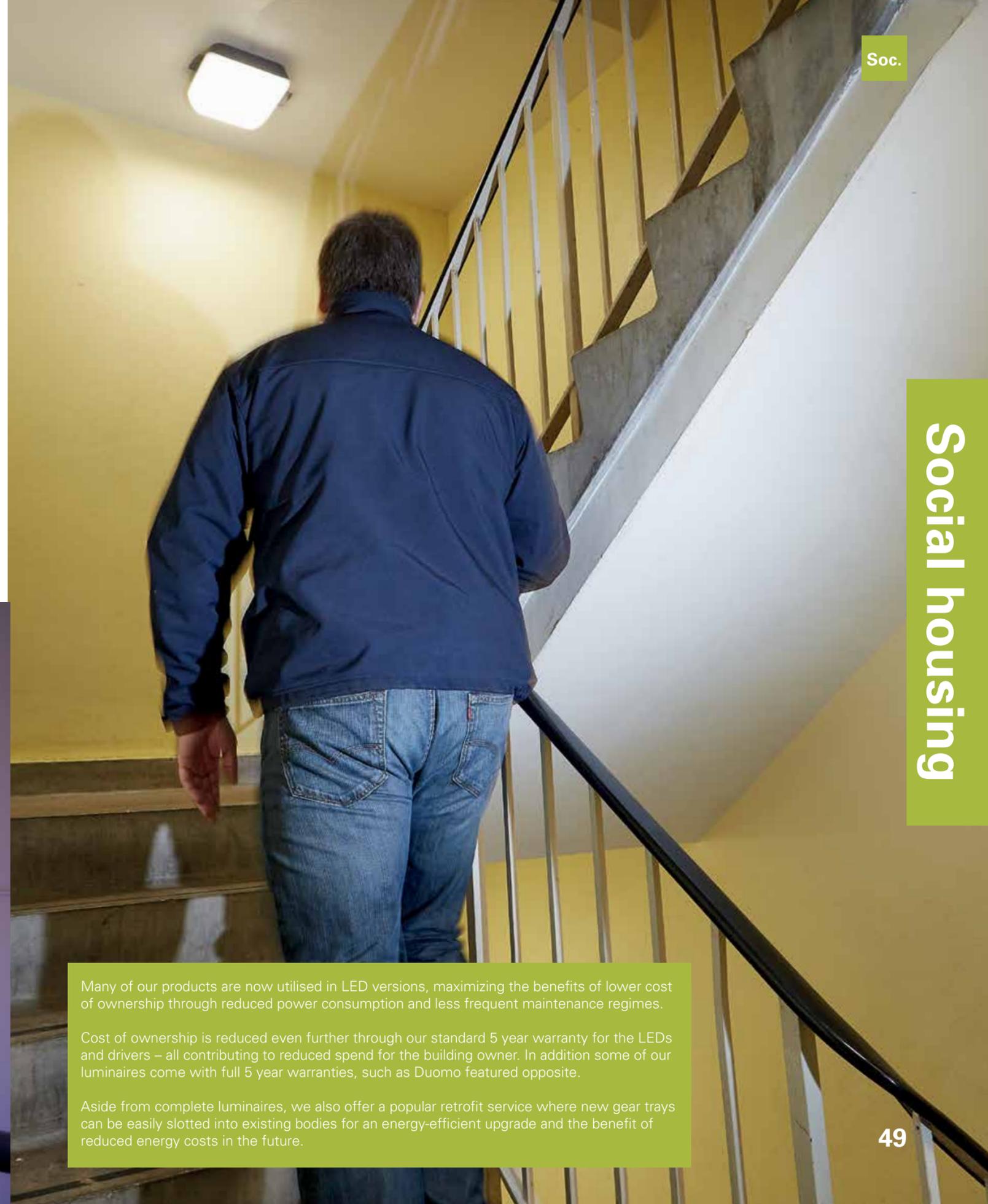
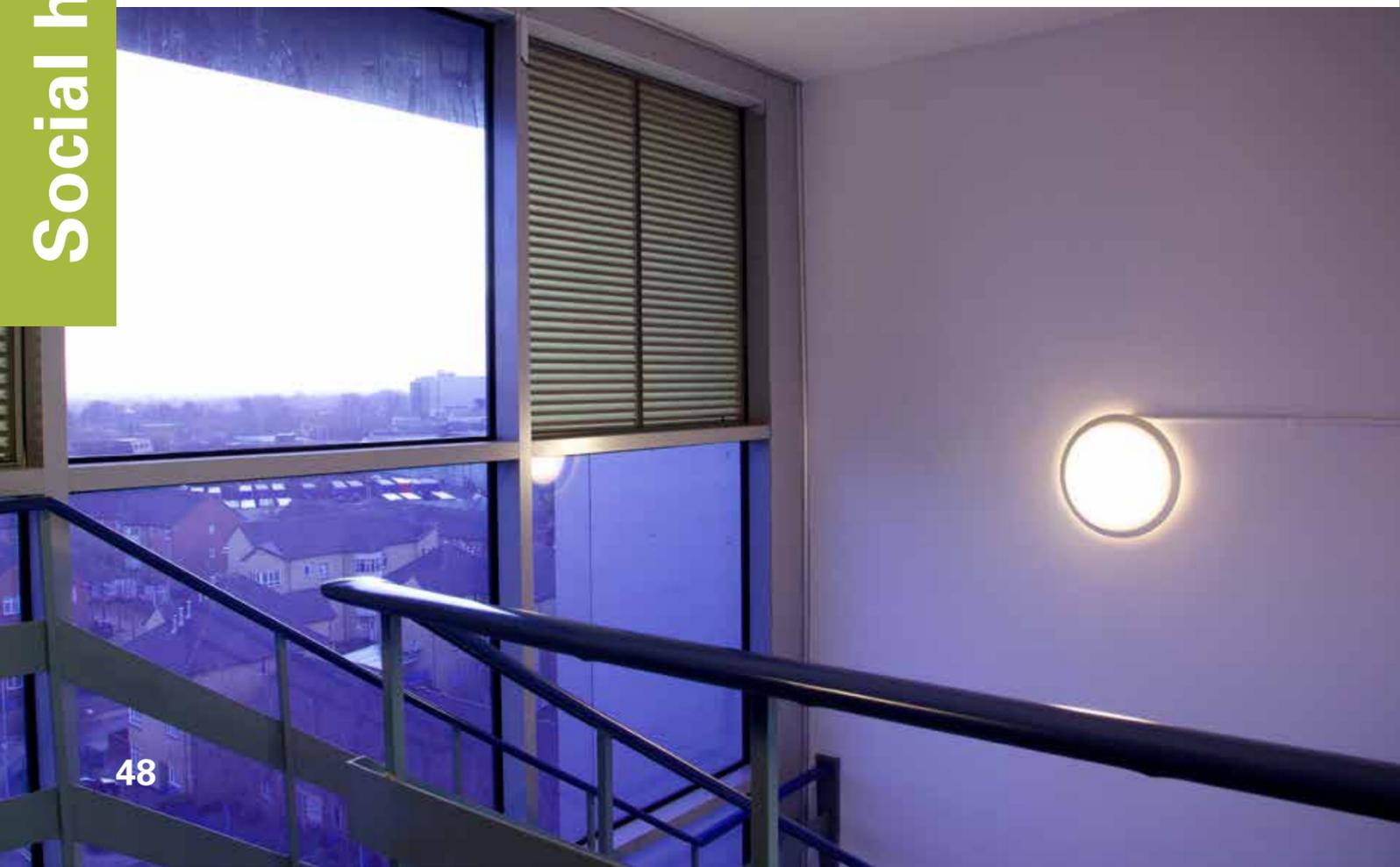
DUOMO

Having established our luminaires as the standard for communal lighting, changes in technology and new materials have enabled us to continue to raise performance standards.

We introduced Duomo - a stylish, robust and durable LED luminaire offering market leading light output which will reduce your energy use when compared to equivalent 2D fittings.

Duomo's impressive light output of 113 luminaire lumens per circuit watt ensures that you need fewer luminaires for a range of social housing applications.

For example, to achieve 100 lux on horizontal stair treads, the number of fittings needed is reduced by 50%, compared to traditional 2D luminaires.



Many of our products are now utilised in LED versions, maximizing the benefits of lower cost of ownership through reduced power consumption and less frequent maintenance regimes.

Cost of ownership is reduced even further through our standard 5 year warranty for the LEDs and drivers – all contributing to reduced spend for the building owner. In addition some of our luminaires come with full 5 year warranties, such as Duomo featured opposite.

Aside from complete luminaires, we also offer a popular retrofit service where new gear trays can be easily slotted into existing bodies for an energy-efficient upgrade and the benefit of reduced energy costs in the future.

## Case Study

### Haynes Park Court, Romford

London and Quadrant (L&Q) was set up in 1963 the same year as Designplan. The collaboration of these companies at Haynes Park Court is a testament to each company's ethos of quality and sustainability.

L&Q's brief to Designplan was to improve safety, upgrade the environment and reduce the amount of electricity consumed to ensure the residents received the best level of service, at a cost they could afford.

#### The way things were

L&Q are involved in regeneration projects to create places where people want to live and maximising resident satisfaction. Haynes Park Court consists of two tower blocks which were desperately in need of modernisation. The existing poor lighting created a safety concern for the residents with dark stairwells and bleak corridors.



#### What's changed

We created a solution which incorporated microwave presence detectors with Radio Frequency (RF) Wireless Transmission controls into our QuadEvo luminaire.

Installing QuadEvo has helped reduce electricity consumption by circa 60%, as they use less than half the power (11.5 circuit watts) than the fittings they replaced (32 circuit watts). The LED light engine can also last 50,000 hours, up to 5 times longer than a traditional fluorescent lamp.

QuadEvo's 104 lm/W light output has ensured a brighter, more inviting environment for residents. Its IK15 rating means it can withstand up to 125 joules of impact, 6 times more than a standard IK10 fitting, limiting the threat of vandalism and enhancing durability.

#### Using technology to provide peace of mind

We incorporated RF wireless lighting controls, into our QuadEvo luminaires to automate the lighting.

When no one is present the lighting level drops down to 10% output, remaining at this level to reassure residents. When someone enters the stairwell from any level, the luminaire sensor is triggered raising the light output to 100%, ensuring safe navigation.

Integrated lighting controls help reduce energy and running costs still further, whilst extending the overall life of the luminaire.

For additional peace of mind, QuadEvo comes with a 5 year warranty covering the full product.



#### Ease of installation and maintenance

The specification was to replace light fittings on a point for point basis for two housing blocks. L&Q were keen to ensure that the disruption to the residents was kept to a minimum. They requested that the new installation used the existing wiring whilst also incorporating inter-connectivity between the fittings.

Maintenance is quick and hassle free as the QuadEvo luminaire incorporates a removable diffuser and gear tray which can be replaced in less than 60 seconds.

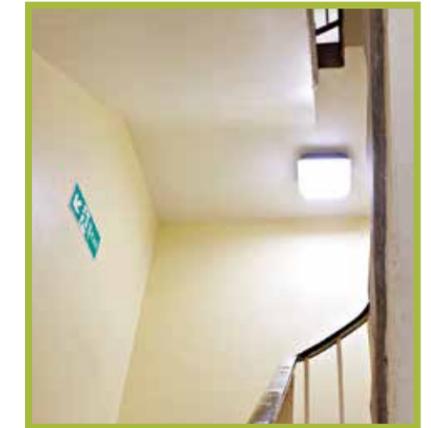
The RF wireless controls are programmed and commissioned using a hand held remote control. Each luminaire parameter can be configured at any time and without having to access the fittings.

#### Values and our people

L&Q in partnership with Designplan succeeded in fulfilling their social mission to improve the lives of the residents at Haynes Park.

Designplan installed a durable, energy efficient lighting solution utilising modern technology, together with the improved aesthetics of a contemporary die cast aluminium luminaire.

This collaboration created safe and pleasurable communal walkways which have increased efficiency and reduced operating costs.



#### Going the extra mile

Designplan are committed to providing excellent after sales service. To aid installation our technical team attended site with Ian Hill of Hill Electrical Services.

Designplan assisted in commissioning one floor of the housing block, allowing the contractors to complete the remaining installation with ease and confidence.

The refit at Haynes Park was part of L&Q's planned maintenance programme. The specification was achieved with efficiency and within the economics of L&Q's mission to their residents to create homes they can be proud of.



# Recommended luminaires



**CirCore**  
p.120

**Cove Mini**  
p.128

**Curve VR**  
p.132

**Duomo**  
p.137

**Pantheon**  
p.178

**Parkalux**  
p.180



**Parkalux Angled**  
p.182

**QuadEvo**  
p.186

**Quadrant**  
p.188

**QuadRetro**  
p.191

**Wall Mount Quad**  
p.192

**Quadrangle**  
p.195



**Quadrato**  
p.199

**Quadriga**  
p.200

**Quadring**  
p.201

**Quantum**  
p.203

**SquareCore**  
p.217

**Torino**  
p.224



**Tuscan 89**  
p.232

**Tuscan 89 Angled**  
p.234

**Tuscan 88**  
p.236

**Tuscan 88 Angled**  
p.240

**Tuscan II**  
p.246

**Zelos Wall Max**  
p.263



**Zelos Wall**  
p.262

Social housing

Social housing

# Custodial

Designplan has been the primary provider of lighting to UK police stations, prisons and courts, both privately and Ministry of Justice (MoJ) run for over twenty years.

We have the widest range of approved standard and bespoke products available with a continual development programme to ensure all relevant standards and needs are met.

The many thousands of light fittings we have supplied for cell use have been carefully selected to protect both prisoner and staff from harm. Our cell specific fittings are anti-ligature as standard, tamperproof and resistant to the highest levels of vandalism.

Many of our in-cell fittings feature variable lighting levels through HMPPS (Her Majesty's Prisons and Probation Service) approved rocker switches.

However our offer is broader than just the cell areas. HMP Featherstone, HMP Addiewell and HMP Berwyn (see case study), all utilized a broad suite of products from our custodial range.

Using the experience gained from working closely with installers, we have given significant attention to luminaire weight, simplicity of wiring and the ease of fixing.

Removeable and replaceable gear trays ensure our custodial luminaires are easy to install, maintain and upgrade to the latest technology.



The Abrams AL fitting builds on our unrivalled experience of producing strong, vandal-resistant units for interior applications. Ideal for use in prisons, police cells and areas with vaulted ceilings, these IP65 and IK16 fittings are robustly engineered to resist attack or accidental damage.

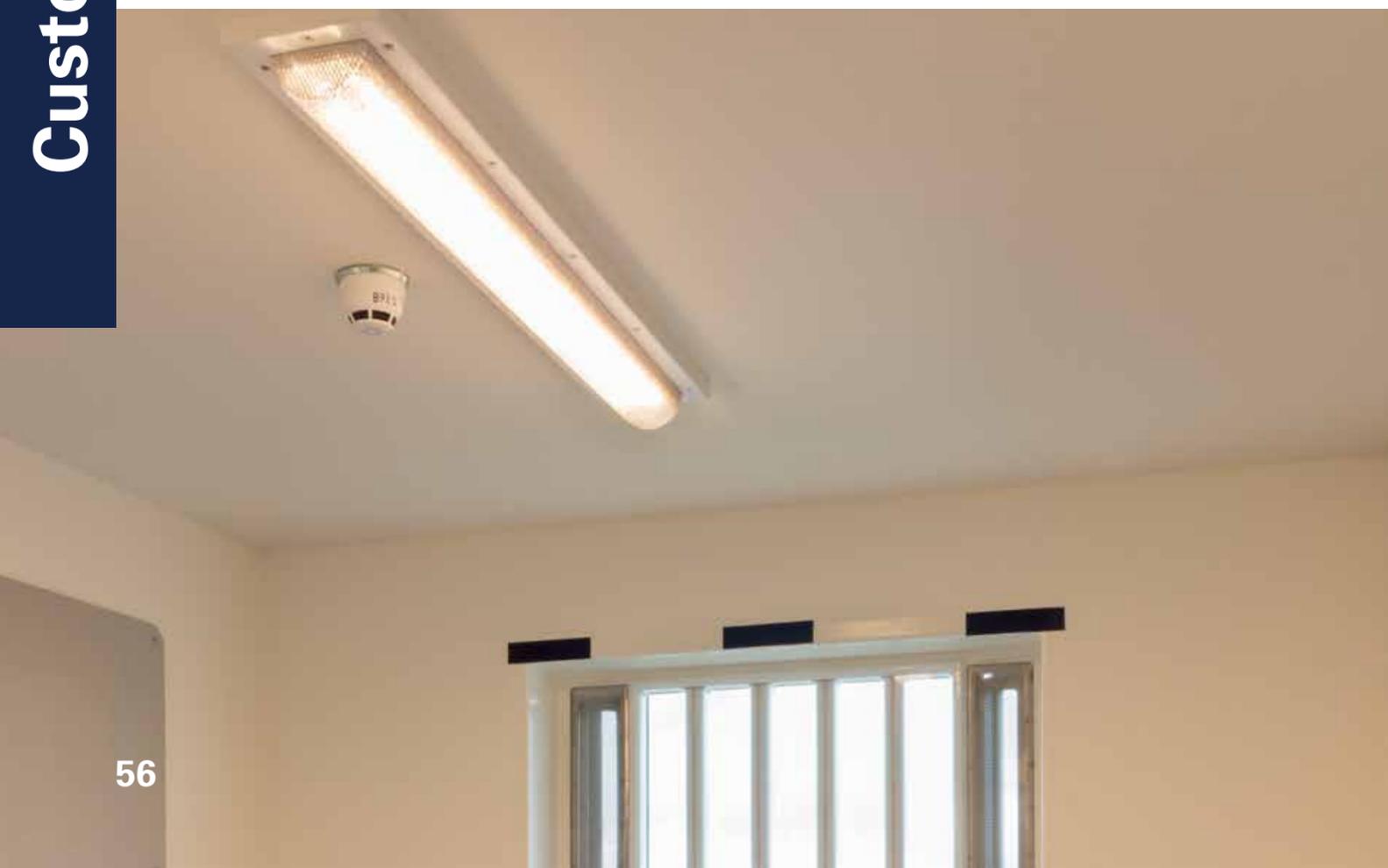
Featuring a zinc-coated steel body, the Abrams AL design includes a rounded opal diffuser with a patented design of 'sandwiched' layers to resist flames and heat sources, preventing prisoners or vandals access to the fitting interior.

Abrams AL has been accepted by the UK's MoJ in an LED version and was used as the main cell lighting product for HMP Berwyn (see case study).

Based upon the classic Tuscan fitting, Uni-Cell is designed for use in police station cells, and is our most robust fitting for this sector. It was developed in close cooperation with the Metropolitan Police and the MoJ and is often utilized in a version which is engineered specifically for the project.

The body has an up-stand to provide an anti-ligature element and offers a number of options for specific requirements, such as LED/infra red cameras, sprinkler outlets, smoke detectors and speakers.

In the event of the standard Uni-Cell not being suitable for a particular project, our design department will be happy to work with you to create the correct solution for your custodial lighting needs.



# Case Study

## HMP Berwyn, North Wales

HMP Berwyn is a landmark prison in the UK. It accommodates 2,106 men and is a Category "C" prison which means it takes men who are low risk, quite often in the last stage of their sentence and identified as prisoners who want to change their lives. The focus at HMP Berwyn is rehabilitation rather than incarceration.

The design of HMP Berwyn, the first prison lit 100% by LED, moves away from dark dehumanising Victorian prisons towards a 21st century rehabilitative establishment. Hoare Lea specified Designplan together with our sister company Whitecroft who supplied the non-custodial luminaires. With the reassurance of being part of the Fagerhult group, this collaboration was capable of providing a broad range of luminaires to all areas of the prison.



### Time for change

In line with HMP Berwyn's values, respect to all is shown in a number of ways. For example, the men are addressed by their preferred names as well as knocking on a door before entering a room. This respect leads to trust and together these two principles result in less violence.

Theoretical ideals are at times challenged when rumblings occur and it is because of these eruptions, the lighting needs to be robust. On the association and landing areas, the contemporary style of our Tuscan luminaires improves on the institutional installations in older prisons but are still capable of resisting extreme attack. Additionally, the gradient top design of the Tuscan ski slope prevents it being used as a place to conceal restricted items.

### Education and reform

Just under 50% of all prisoners in the UK are functionally illiterate. It is considered that this lack of educational development is fundamental to the path in life they have followed.

Every man, except those who are retired, either works or is involved in vocational training during the day. Our Curve VR is installed in all of the 34 classrooms and the library. These reinforced surface ceiling mounting fittings provide a safe yet non-institutional feel to the development areas.

The workshops develop skills and self-confidence allowing each man to think beyond their past to create a changed future. The sustainable workshop promotes care for others by acknowledging that all live together and in one society.



### Daylight linking

With a limited amount of time spent outside, natural light inside supports human health and promotes the mental and visual stimulation necessary to regulate the human circadian rhythms. This factor contributes towards a calmer environment within HMP Berwyn.

The education block is naturally light so the lighting installation needed to reflect this by controlling the amount of artificial lighting through daylight sensors. When light levels are adequate, integrated sensors ensure the Curve VR remains unlit, reducing energy and running costs.

As part of our after sales service, we assisted the contractor in commissioning the lighting controls, ensuring a smooth installation.

### Safe steps towards independence

Despite the progressive approach to rehabilitation, HMP Berwyn is still a prison and the men are locked in their rooms for 12 hours a day. Our lighting meets the highest levels of impact resistance and MoJ standards.

The IK16 rated Abrams AL can withstand 150 joules of force, over 7 times more than the standard (20 joules). The anti-ligature design is 'safer cell' approved to prevent self-harming and is installed in all 1,350 rooms and en-suites. A patented flame and puncture resistant diffuser secured with tamperproof screws prevents the fitting being breached and then used as a weapon during times of volatility.

Each room has its own control panel which allows Abrams AL's light levels to be adjusted to low, medium, high and night-light.



### Project Management smooths the way

Designplan needed to deliver a lighting solution to illuminate all aspects of HMP Berwyn and create an environment which upholds the principles of this pioneering prison. We supplied over 6000 luminaires, with nearly half the fittings in the rooms.

The success of our dedicated project management team overseeing this installation was crucial to ensure we provided both product and service to a level which we knew we could sustain and promote. This standard was achieved by assisting with design and product selection, managing deliveries on time and in full and providing a full after sales service.

Our industry accredited robust products and a commitment to service excellence affirms our position as market leaders in the custodial sector.



# Recommended luminaires



Abrams  
p.84



Abrams AL  
p.86



Basilica  
p.90



Bastion (anti-lig  
option) p.94



Bedhead AL  
p.93



Miniquad AL  
p.197



Monitor II  
p.176



Monitor II Retro  
p.177



Parkalux  
p.180



Parkalux Angled  
p.182



Torino AL  
p.227



Tuscan AL  
p.242



Tuscan Trunking  
p.249



Uni-Cell  
p.250

# Secure healthcare

At Designplan we recognise that for the secure healthcare sector, safety and patient comfort are primary drivers in the selection of lighting.

Many of our products contain features specifically designed to meet these objectives. Our Basilica luminaire is designed to be impact resistant up to IK16 and to help prevent the attachment of ligatures and avoid the dangers associated with them.

With a variety of sizes, switching, and lamp options, they can cater for many applications, ranging from bed head units with local control, to corridors, stairways and circulation areas.



We believe that visually comfortable lighting is critical to aiding rest and recovery whilst considering the varying needs of patient, clinician and visitor.

To help reduce stress levels, a non-institutional feel to fixtures and fittings is important. Our Basilica luminaire has been designed with this in mind. Stylish curves provide a contemporary aesthetic without any ligature points; helping to prevent self-harming.

Lighting controls can also be incorporated to provide illumination suited to the setting and/or for daylight dimming.

Reducing the build up of dust and germs aids the infection control measures of the building and its users.

Luminaires like Basilica help maintain bright, hygienic environments as its smooth surfaces are easy to clean and has an ingress protection rating of IP65.

Our removable gear trays and other components allow speedy maintenance and an opportunity to upgrade technologies, without compromising the robust, tamperproof design required for secure health settings.

Lighting can be a large source of energy consumption in secure hospitals and care homes, often accounting for as much as 35-40% of total electrical consumption.

Much of this energy is used in circulation and waiting room areas where lights are often in use throughout the whole day, despite being actually needed at full brightness for only a fraction of that time.

Designplan's energy efficient LED fittings can be fitted with a variety of dimming and sensor options to ensure that luminaires are only at full output when actually required, keeping both energy bills and the total cost of ownership low.

## Case Study

### Broadmoor Hospital, Crowthorne, Berkshire

Broadmoor Hospital is the best known of the three high-security psychiatric hospitals in England. It provides a specialist service assessing and treating men from the south of England who have serious mental health or personality disorders. The highly structured environment requires lighting which reduces risk and promotes safety.

The hospital opened in 1863 and was first named the Broadmoor Criminal Lunatic Asylum. However, mental health care has advanced tremendously and the Victorian architecture no longer offers fit for purpose accommodation and care appropriate for the high secure services required in the present day. In 2014, as part of the redevelopment of Broadmoor Hospital (BHR), Designplan were selected by the projects main contractor, Kier to provide lighting in areas such as corridors, lobby, kitchen and day rooms.



#### Moving forward

The redevelopment of Broadmoor Hospital is like a phoenix rising out of the ashes of the old building. The old brick building is synonymous with the Victorian era, which although impressive to look at, is costly to maintain. Staff often spend time observing corridors and blind spots in the existing ward areas. However, the purpose built new design contains bright and wide passage ways, means this time will instead be spent carrying out therapeutic activities.

The new build will modernise living conditions with upgraded facilities for patients, as well as an improved working environment for all employees. The installation of 1500 Basilica luminaires in the corridor and control areas, with their non-institutional contemporary appearance, enhance the features of the modern interior.

#### Why choose the Basilica?

The core purpose of our lighting is to protect and promote the wellbeing of both patients and staff. With safety as a prime consideration, the Basilica with no ligature points, helps to prevent self harming.

The Basilica has an IK16 rating meaning it can withstand up to 150 joules of impact; ensuring that in the event of any disruptions, the lighting will remain intact. The die cast aluminium body is strong, and its durability is increased with a tough protective skin of oven baked polyester paint.

The Basilica is an LED fitting providing a uniformity of light distribution with an impressive light output of 116 lumens per circuit watt; whilst reducing energy consumption by up to 65% when compared to older fluorescent lighting.



#### Modern environment

BHR will be in line with the high secure mental health standards with the added benefit of reduced costs in maintenance. This advancement will allow the West London Health NHS Trust the opportunity to invest more money into patient care.

Therapy and educational services will need to portray this progression in care by creating a fresh bright environment. The Parkalux Angled luminaire with its sleek design, discreetly masks its IK14 robust construction and tamperproof screws.

The Parkalux Angled is representative of Designplan's timeless design as it is nearly twenty years old and, yet it has evolved into the perfect contemporary luminaire for this modern environment.

#### Exterior safety

Safety at Broadmoor Hospital is vital and one of the trust's top priorities. Our installation was both internal and external and adhered to all required levels of security.

The Zelos Wall is an elegant and versatile bulkhead and a perfect choice for wall mounted perimeter applications. The robust IK16 die cast aluminium body, with an IP65 rating, ensures it can be relied upon to function in challenging environments and withstand extreme weather conditions.

The attractive LED Zelos Wall allows a good distribution of light over doorways to guide anyone entering or exiting.



#### Change means hope

The new Broadmoor Hospital has been specifically designed to promote recovery, dignity and comfort.

On average patients stay at Broadmoor Hospital for five years. The improvements in the new development will help staff provide the best possible treatments in surroundings which support therapy and encourages recovery to achieve the desired outcomes.

Because of its high walls and other visible security features, the hospital is often wrongly assumed to be a prison. The contemporary lighting in BHR incorporates the necessity of addressing mental illness in an environment which retains hope for change.



# Recommended luminaires



Abrams  
p.84



Abrams AL  
p.86



Basilica  
p.90



Bastion (anti-lig  
option) p.94



Bedhead AL  
p.93



Cove Mini  
p.128



Curso  
p.129



Miniquad AL  
p.197



Monitor  
p.174



Pantheon  
p.178



RDL AL  
p.210



SDL AL  
p.211



Torino AL  
p.227



Tuscan AL  
p.242

# Urban

Effective lighting in public spaces increases personal safety and can significantly lower the risk of anti-social crime in areas such as car parks, pedestrian areas and underpasses.

Designplan's range of urban luminaires combine elegant choices for urban developments with resistance to extreme vandalism and weather. Additionally, our 'designed to last' philosophy results in a low cost of ownership. For the Derry Walls project, upgrades to new LED technologies allowed an enhancement of a still operational solution we had delivered over twenty years earlier.

From subtle building accent spotlights to tough drive-over luminaires and robust bollards, Designplan has decades of experience in long-lasting, cost effective lighting applications.

By improving optics, we are able to help aid personal safety and security in urban exterior applications whilst decreasing your total cost of ownership.

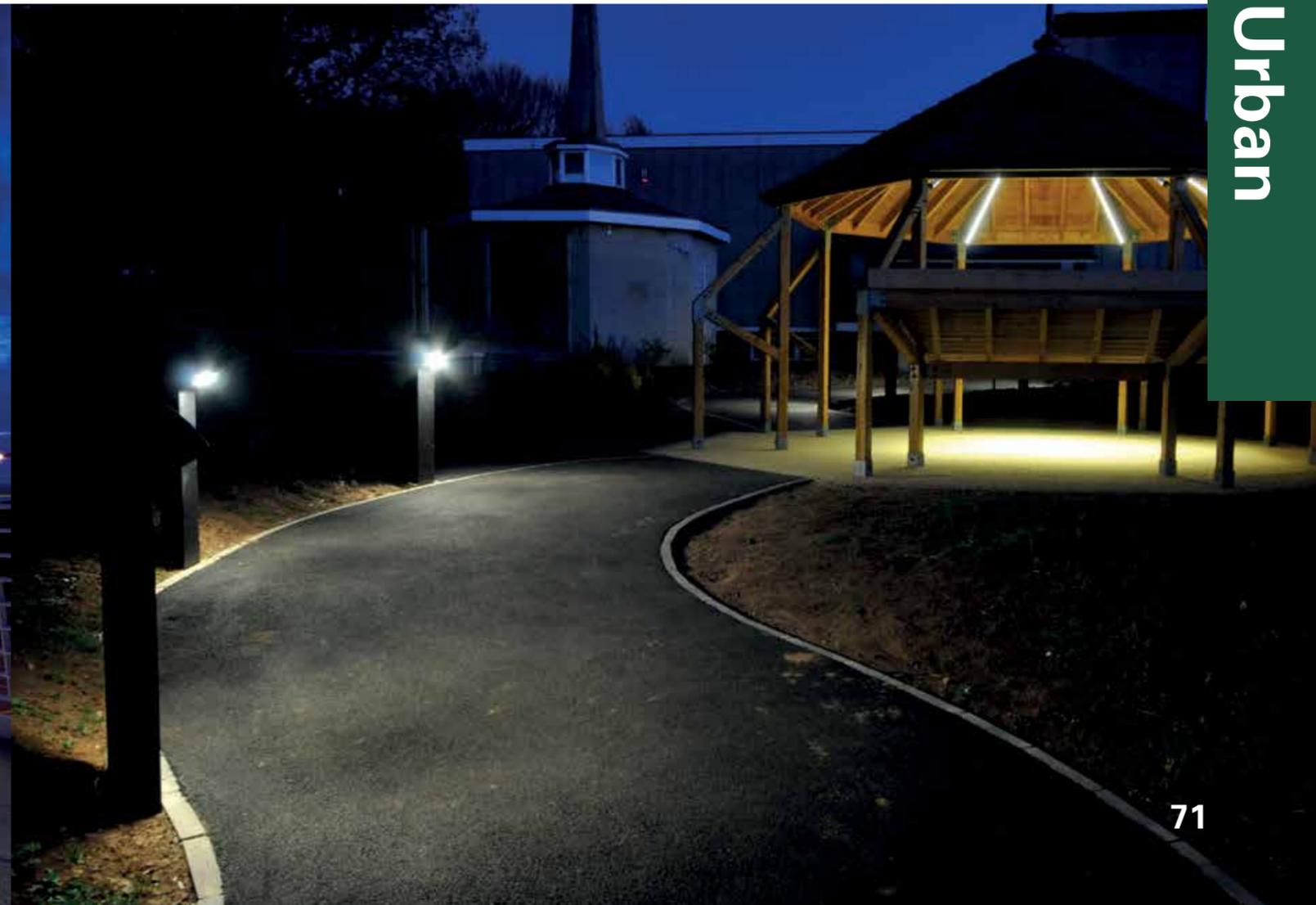
For example, the optics used in our Zelos Bollard, provide up to 8 metre spacings on typical pathway applications (15 lux average / 0.25 uniformity) from just 6 watts of power.



## ZELOS BOLLARD



"Good value and great performance"  
Lux Magazine, October 2015.



Post top and perimeter lighting is another speciality, with fittings designed for exterior car parks and building walls to provide safety and reassurance.

Multi-storey car parks and transport hubs can require exceptionally robust fittings to withstand vandal attack.

Parkalux is ideal for low-ceiling areas such as car parks whilst offering reliable vandal resistance.



Not all urban lighting needs to be utilitarian. Our luminaires can be used as accent lighting to highlight artworks or sculptures just as easily as they can light up buildings.

The Sea Change Project in Boscombe used our in ground CE luminaires to dramatic effect, capturing the raw nature of Andrew Kirby's sculptures and bringing out their beauty once the sun has set.



## Case Study

Burnley Lane Subway, Chadderton, Lancashire



Designplan Lighting worked in partnership with Highways England and Balfour Beatty Mott MacDonald to overhaul the lighting of the Burnley Lane Underpass in Chadderton, Lancashire following safety concerns raised by residents.

Balfour Beatty Mott MacDonald chose the Tuscan 88 Angled cornice mounted luminaire as it provides better vertical illumination, for facial recognition, than the existing ceiling mounted fittings.

The longer linear fittings, LED light engine and an increase in the number of lighting points, have improved light output and uniformity ensuring residents feel safer and more comfortable using the underpass.



The new lighting levels achieved now meet British Standard BS5489-1-2013, the requirement for lighting subway applications.

The LED light engine provides increased light output whilst using up to 50% less energy helping to reduce the total cost of ownership of the installation. Most significantly for residents, LEDs last up to 5 times longer (50,000 hours) than the previous fluorescent lamps helping ensure safe wayfinding day or night.

The design of the Tuscan 88 incorporates a removable diffuser and gear tray. This allows maintenance to be quick and hassle free, reducing "down time". The removable gear tray also provides a sustainable way for technology to be upgraded helping to future proof the quality and performance of the subway's lighting.

The Tuscan 88 luminaire is robustly constructed and can withstand an impact of 150 joules of force (IK16), seven and a half times more than a standard IK10 fitting (20 joules), to improve vandal resistance and provide added peace of mind to residents.

## Case Study

Gravesend Cycle Hub, Gravesend, Kent



The Cycle Hub at Gravesend Station, operated by Southeastern Railway, upholds the government initiative to encourage the use of public transport, allowing passengers to store bikes safely and easily.

Building a state of the art Cycle Hub encourages Southeastern commuters to cycle to the station, and promotes good health, whilst reducing congestion on the roads. The Hub has a secure covered compound with swipe fob entry system to enclose 244 bikes.

WSS Construction Consultants' main specification was to ensure durability in the construction of the Cycle Hub. Designplan Lighting, synonymous with robust weather resistant products for rail was considered and proposed the Parkalux linear luminaire.

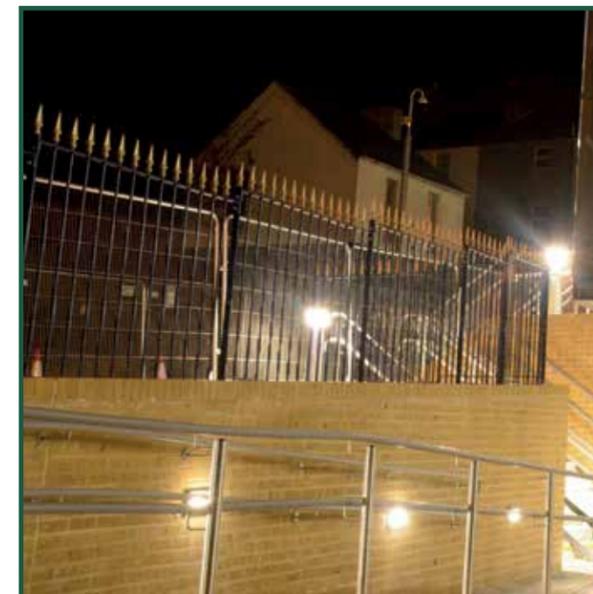
Parkalux was chosen as it can be fitted both internally and externally. The design of the Parkalux incorporates a polycarbonate diffuser and tamper proof screws, fortifying its strength and vandal resistance.

Parkalux incorporates LED technology which reduces cost of ownership, as the luminaire uses up to 50% less energy than traditional fluorescent options. LEDs run up to 2.5 times longer than fluorescent lamps, reducing the number of maintenance call outs.

The dimmable Parkalux, in conjunction with the sensor, supports daylight harvesting. When not in use the Cycle Hub's lighting level drops to 10%, thereby saving energy still further and extending the life of the luminaire.

Parkalux has been independently tested by Lux Magazine, the leading trade publication in the lighting sector, who awarded the product five stars.

To ensure the safety of Southeastern's passengers Designplan designed a bespoke external bricklight recessed fitting to illuminate the walkways outside of the hub. The welfare of the cyclist is prioritised by creating a safe low level illuminated pathway to exit the Cycle Hub.



# Recommended luminaires

Urban



Urban

# Typical product page layout

## Sector icons

Products will be suitable for a number of market sectors. These colour coded icons match the sector section, see pages 34 to 75.

## Product image

This image will typically show the standard version of the product typically with the default paint finish with the standard diffuser. Please note: photos are for illustrative purposes only and may not match the product specification.

## Finishes

Products can be coated in a variety of colours and textures. Options are listed here, and examples of paint options can be found on page 264.

## Lamp options

Most products come with a range of lamp options. Where applicable they are separated here into different lamp types, as well as by length for linear products. Please note: linear fluorescent lamps are not provided as standard.

## Fitting options

Products have a range of options including different finishes, diffusers, emergency options and more. The prefixes and suffixes are listed here to help assemble a product code for your order. See page 269 for an explanation of emergency options. See page 25 for an example of how lighting controls can be utilised.

Tra.
Soc.
Cus.
Sec.
Urb.

IP65
IK16  
150J

## Zelos Post Top



**FINISHES**

TITANIUM  
C49

MATT SILVER  
C48

**LAMP OPTIONS**

CLEAR DIFFUSER

LED	Rating	Temp	Load	Lum/hrs	Efficacy	Weight
TLSP/3000NW/C49	3000lm	4000K	28W	2430lm	87lm/W	7.5kg
TLSP/4000NW/C49	4000lm	4000K	39W	3240lm	83lm/W	7.5kg
TLSP/5000NW/C49	5000lm	4000K	55W	4050lm	76lm/W	7.5kg
TLSP/6500NW/C49	6500lm	4000K	88W	5265lm	60lm/W	7.5kg

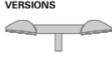
**FITTING OPTIONS**

Matt silver finish	replace C49 with C48
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Photocell	add suffix /PEC
Wall mount bracket	add W after TLSP
Double post top bracket	add D after TLSP
Optic bracket and optic versions	please contact technical sales

**Vandal and weather resistant post top fitting with zero upward light**

- High energy efficiency fitting with zero upward light.
- Die cast aluminium body and front panel finished in titanium polyester powder coat.
- Clear diffuser held against gasket by tamper proof screws.
- Easy maintenance fitting with hinged front panel.
- Matching 60mm and 76mm posts available.
- Electronic control gear on removable tray with fused plug & socket connector block.

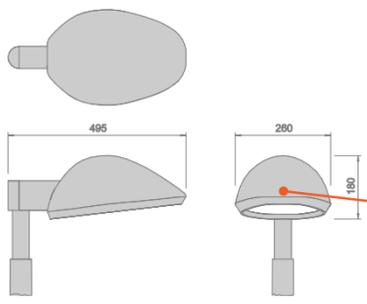
**VERSIONS**

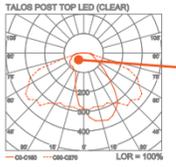


DOUBLE POST TOP



WALL MOUNT





TALOS POST TOP LED (CLEAR)

LOR = 100%

## Icons

Most products have a variety of lamp options which are depicted here. See page 79 for more information.

IK and IP ratings are also shown here - see page 20 for more information.

## Description

This section is a summary of the key features of the product. These typically cover application, materials involved and any popular options or extras.

## Versions

Some products have minor variations beyond lamp or internal control gear changes, but will not be listed as a wholly different fitting. Any variant versions are shown here and options to order them will be listed in the 'fitting options' sections (see opposite page).

## Sectional drawing

The sectional drawing shows a diagram of the product with dimensions. In linear products, the 'LENGTH' refers to the various 'XXXXmm LONG' values listed in the 'LAMP OPTIONS' section of the product page.

## Polar curves

Polar curves are a diagrammatic representation of how light is emitted from a fitting. Each product page includes the typical lamp option. Further information and EULUMDAT files are available on our website.

# Iconography

## Sector

**Transport sector**  
- see page 34 for more information



**Social housing sector**  
- see page 46 for more information



**Custodial sector**  
- see page 56 for more information



**Secure healthcare sector**  
- see page 64 for more information



**Urban sector**  
- see page 70 for more information



## Product

**LED lamp**  
- see luminaire description for more information



**2D fluorescent lamp**  
- see luminaire description for more information



**Linear fluorescent lamp**  
- see luminaire description for more information



**Compact fluorescent lamp**  
- see luminaire description for more information



**IP rating**  
- see page 20 for more information



**IK rating**  
- see page 20 for more information



**Anti-ligature design**  
- see page 30 for more information



**High temperature tested luminaire**  
- see page 24 for more information



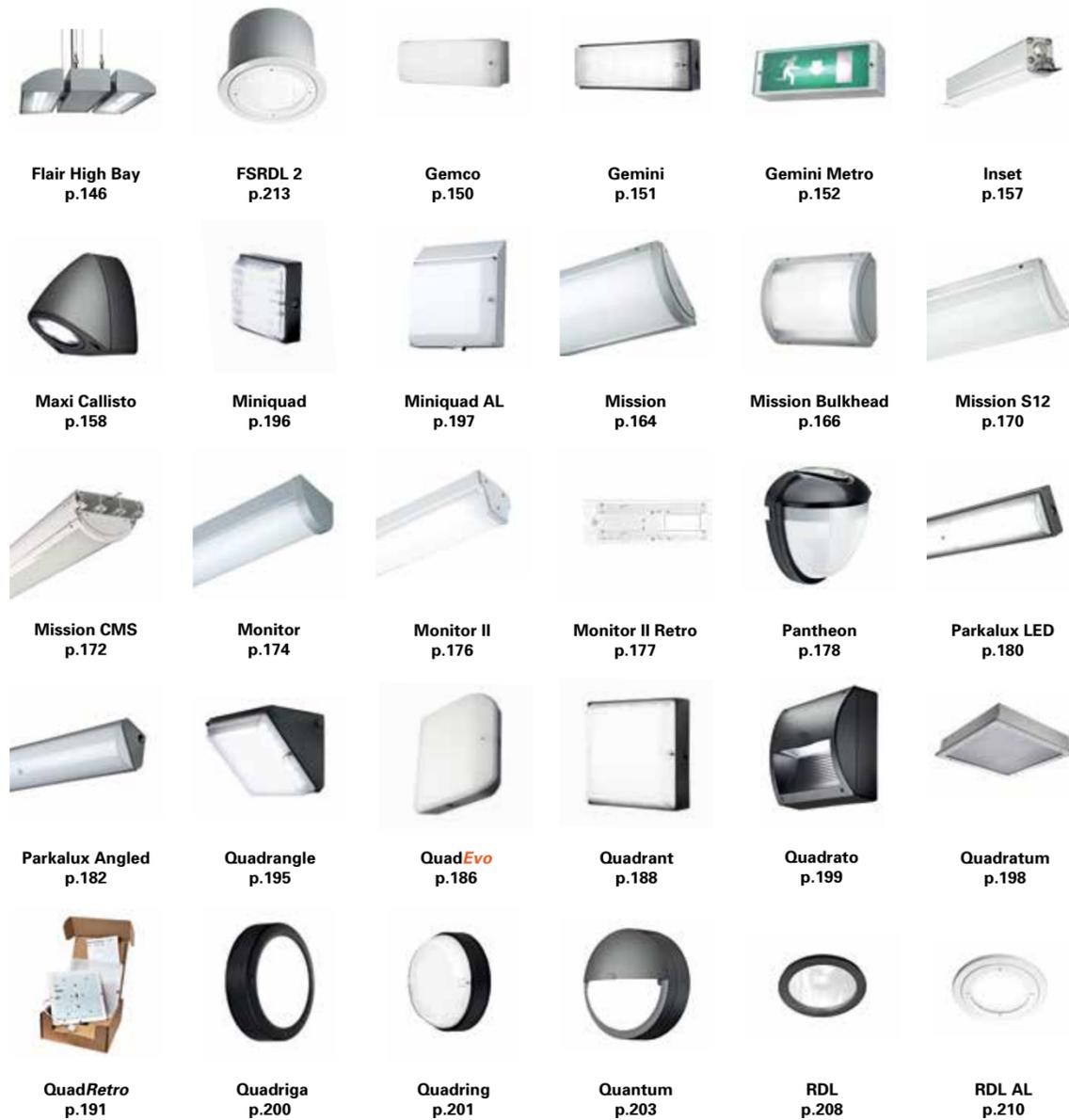
**S12 compliant luminaire**  
- see page 31 for more information



# Product thumbnails A-Z



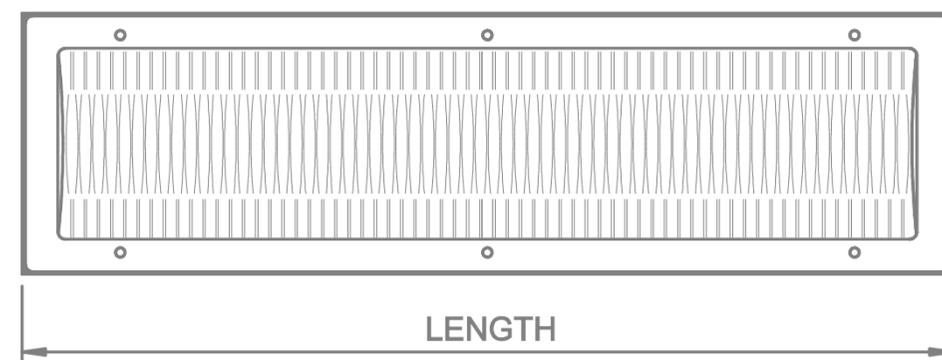
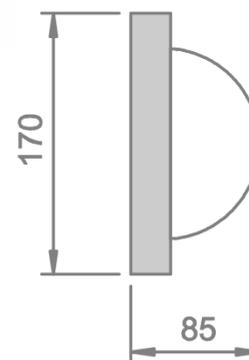
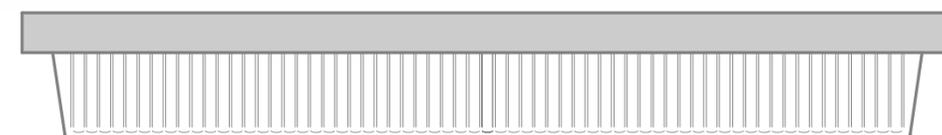
# Product thumbnails A-Z



# Abrams

Robust vandal and weather resistant fitting for non-cell prison applications.

- Suitable for wall or ceiling mounting.
- Slim profile zinc coated steel body finished in white polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block and night light.
- Provision for conduit entry in back, gaskets provided.



**FINISHES**

**TEXTURED WHITE W**

**LAMP OPTIONS**

OPAL DIFFUSER

**1295mm LONG**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D223/4/2000NW/XW	2000lm	4000K	21W	2167lm	104lm/W	7kg
D223/4/3000NW/XW	3000lm	4000K	28W	2866lm	103lm/W	7kg
D223/4/4000NW/XW	4000lm	4000K	35W	3478lm	99lm/W	7kg
D223/4/5000NW/XW	5000lm	4000K	43W	4217lm	99lm/W	7kg
D223/4/6000NW/XW	6000lm	4000K	51W	4725lm	94lm/W	7kg

LINEAR FLUORESCENT

D223/228T5/XW	5250lm	N/A	62W	3150lm	51lm/W	7kg
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**1595mm LONG**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D223/5/2500NW/XW	2500lm	4000K	26W	2709lm	106lm/W	8kg
D223/5/3750NW/XW	3750lm	4000K	34W	3583lm	104lm/W	8kg
D223/5/5000NW/XW	5000lm	4000K	43W	4348lm	100lm/W	8kg
D223/5/6250NW/XW	6250lm	4000K	53W	5271lm	100lm/W	8kg
D223/5/7500NW/XW	7500lm	4000K	62W	5906lm	95lm/W	8kg

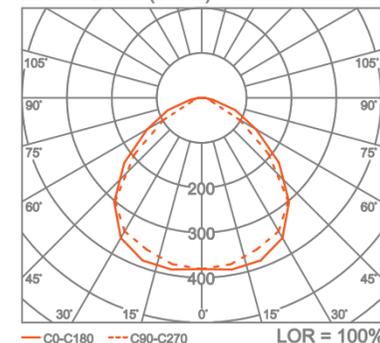
LINEAR FLUORESCENT

D223/235T5/XW	6650lm	N/A	74W	3990lm	54lm/W	8kg
D223/249T5/XW	8750lm	N/A	106W	5250lm	50lm/W	8kg

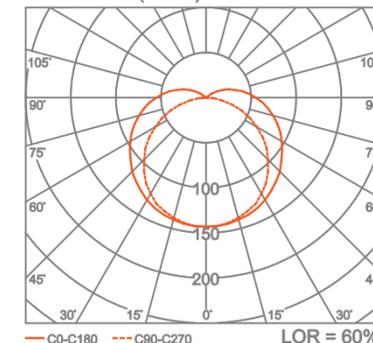
**FITTING OPTIONS**

Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Warm white LEDs (3000K)	replace NW with WW

ABRAMS LED (OPAL)



ABRAMS T5 (OPAL)

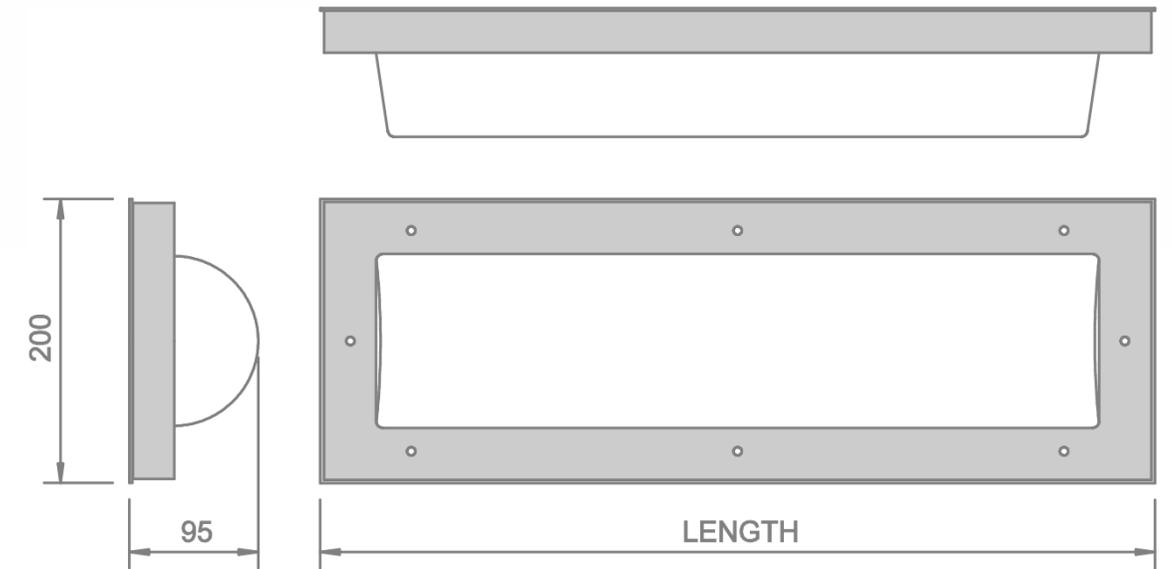


# Abrams AL



'Safer cells' certified ceiling mounted vandal and weather resistant fitting.

- UK Justice Department HMPPS approved fitting with patented diffuser design.
- Zinc coated steel body finished in white polyester powder coat.
- Uniquely constructed patented 'sandwiched' burns test resistant diffuser.
- Diffuser held against gasket with tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block including 3 level switching & night light.
- Provision for conduit entry in back, gaskets provided.



**FINISHES**

TEXTURED WHITE W

**LAMP OPTIONS**

SANDWICHED DIFFUSER

**430mm LONG**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D224/1/2500WW/PW	2500lm	3000K	26W	2000lm	77lm/W	5kg

LINEAR FLUORESCENT

D224/2/12T5/PW	800lm	N/A	17W	408lm	24lm/W	5kg
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**730mm LONG**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D224/2/4000WW/PW	4000lm	3000K	35W	3000lm	86lm/W	8kg

LINEAR FLUORESCENT

D224/2/14T5/PW	2700lm	N/A	29W	1377lm	47lm/W	8kg
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**1325mm LONG**

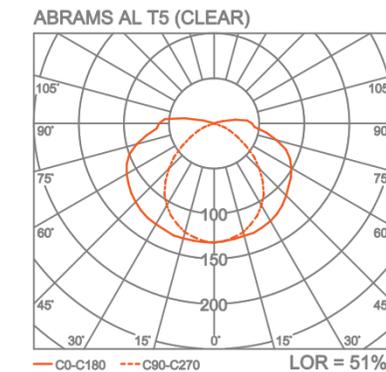
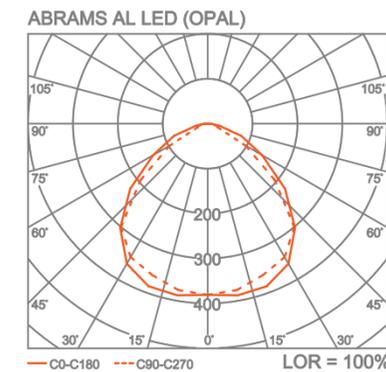
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D224/4/6000WW/PW/SC/NL	6000lm	3000K	56W	4800lm	86lm/W	15kg

LINEAR FLUORESCENT

D224/154128T5/PW/SC/NL	8300lm	N/A	88W	4233lm	48lm/W	16kg
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**FITTING OPTIONS**

Natural white LEDs (4000K) replace WW with NW



We offer various accredited CPDs which can be presented at your premises or at our offices.



IK14  
100J

IP54

Tra. Soc. Urb.

# Aztec

Slim vandal & weather resistant bulkhead fitting.

- Control lens and diffuser provides a square distribution of light.
- Suitable for wall or ceiling mounting.
- Zinc coated steel body finished in black polyester powder coat.
- Clear prismatic polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and sides, gaskets provided.



#### FINISHES

TEXTURED BLACK  
B

TEXTURED WHITE  
W

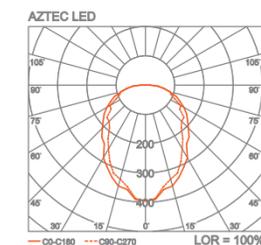
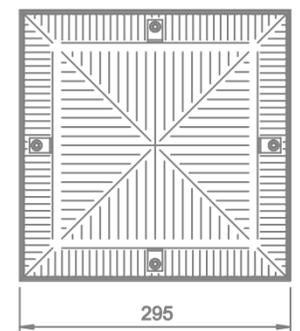
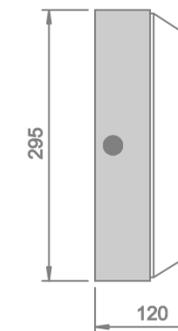
#### LAMP OPTIONS

##### PRISMATIC DIFFUSER

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D35/1400NW/PB	1400lm	4000K	15W	1350lm	89lm/W	4kg
D35/1900NW/PB	1900lm	4000K	22W	1800lm	83lm/W	4kg

#### FITTING OPTIONS

Textured white finish	replace B with W
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Photocell	add suffix /PEC
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix /MWSB
Semi-recessed	add suffix /SR
IP65 upgrade	add suffix /IP65



For the most up to date product information and additional resources, please visit [www.designplan.co.uk/products](http://www.designplan.co.uk/products)

# Basilica



**FINISHES**



**LAMP OPTIONS**

OPAL DIFFUSER

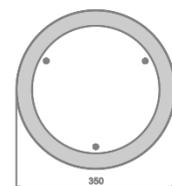
**350mm**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight	HT
BA35/1000WW/XC31	1000lm	3000K	8W	848lm	106lm/W	3.5kg	HT50°
BA35/1400WW/XC31	1400lm	3000K	11W	1140lm	103lm/W	3.5kg	HT50°
BA35/1900WW/XC31	1900lm	3000K	16W	1557lm	98lm/W	3.5kg	HT50°
BA35/2400WW/XC31	2400lm	3000K	23W	2063lm	91lm/W	3.5kg	HT40°

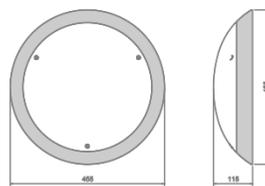
**450mm**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight	HT
BA45/2200WW/XC31	2200lm	3000K	15W	1769lm	116lm/W	4.5kg	HT40°
BA45/2800WW/XC31	2800lm	3000K	22W	2442lm	112lm/W	4.5kg	HT40°
BA45/3400WW/XC31	3400lm	3000K	29W	3108lm	106lm/W	4.5kg	HT40°
BA45/4000WW/XC31	4000lm	3000K	34W	3444lm	103lm/W	4.5kg	HT40°

**350mm**



**450mm**



Contemporary and robust anti-ligature bulkhead with light output of 116 lm/W.

- Contemporary design with no ligature points to help prevent self harming.
- Attractive LED only fitting, providing uniform light distribution and impressive light output of up to 116 luminaire lumens per circuit watt.
- Suitable for wall or ceiling mounting.
- Smooth surfaces make cleaning easy to help maintain a bright welcoming environment.
- Aluminium die-cast body finished in smooth white polyester powder coat.
- Opal polycarbonate diffuser held in place with Resistorx tamper resistant screws.
- Electronic control gear on removable tray with fused plug and socket connector block.
- Provision for conduit entry in back, gaskets provided.
- 5 year warranty (full product).

**FITTING OPTIONS**

Natural white LEDs (4000K)	replace WW with NW
Smooth silver finish	replace C31 with C45
Smooth cream finish	replace C31 with C44
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Night light	add suffix /NL
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix/MWSB
Corridor function	add suffix /CF10

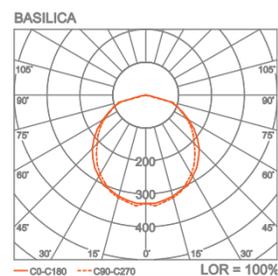
CF10 will only work if combined with /MWSB or /MWSA, or an external presence detection sensor supplied by others.

MWSA not available on 450mm.

If you require more than one fitting option for the 350mm fitting, please contact technical sales on +44 (0)20 8254 2022 or e-mail technical@designplan.co.uk

EM3D option not available on the 350mm Basilica.

**HT** Applies to standard version. For any options (e.g. EM3) and to check additional 50° applications please contact technical sales.



Our luminaires generally incorporate a removable gear tray, ensuring upgrades in technology are sustainable.



Our extensive cleaning and pre-painting processes are combined with an oven baked finish to provide a protective skin of tough polyester paint.



IK10  
20J

IP20

AL

Cus.

Sec.

Discrete anti-ligature fitting for secure healthcare applications.

- Adjustable 30° rotation in either direction and on/off switch for user convenience.
- Suitable for wall mounting.
- Aluminium body finished in matt white polyester powder coat.
- Clear diffuser held in place by frame.
- Integral electronic control gear with terminal block.

# Bedhead AL



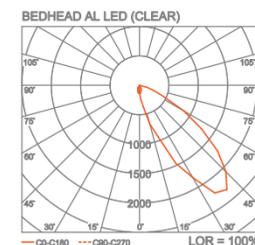
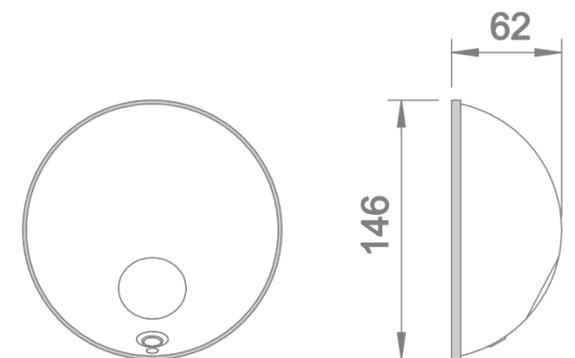
## FINISHES

MATT WHITE  
C46

## LAMP OPTIONS

CLEAR

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
BHAL/300WW/PC46	300lm	2700K	5W	190lm	40lm/W	0.6kg



# Bastion



Slim, strong bulkhead for both interior and exterior applications.

- Designed for use within subways, underpasses and tough urban environments.
- Suitable for wall or ceiling mounting.
- Zinc coated steel body finished in black polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.

## FINISHES



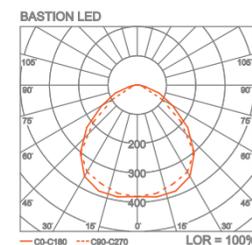
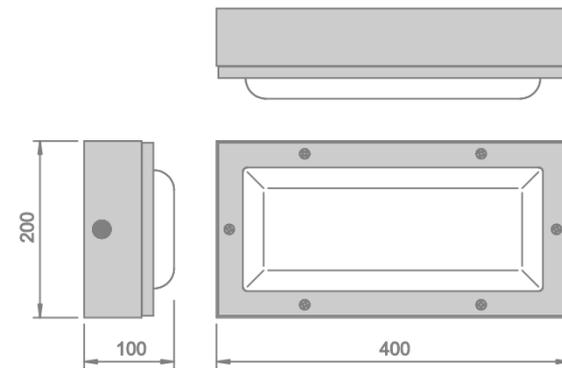
## LAMP OPTIONS

### OPAL DIFFUSER

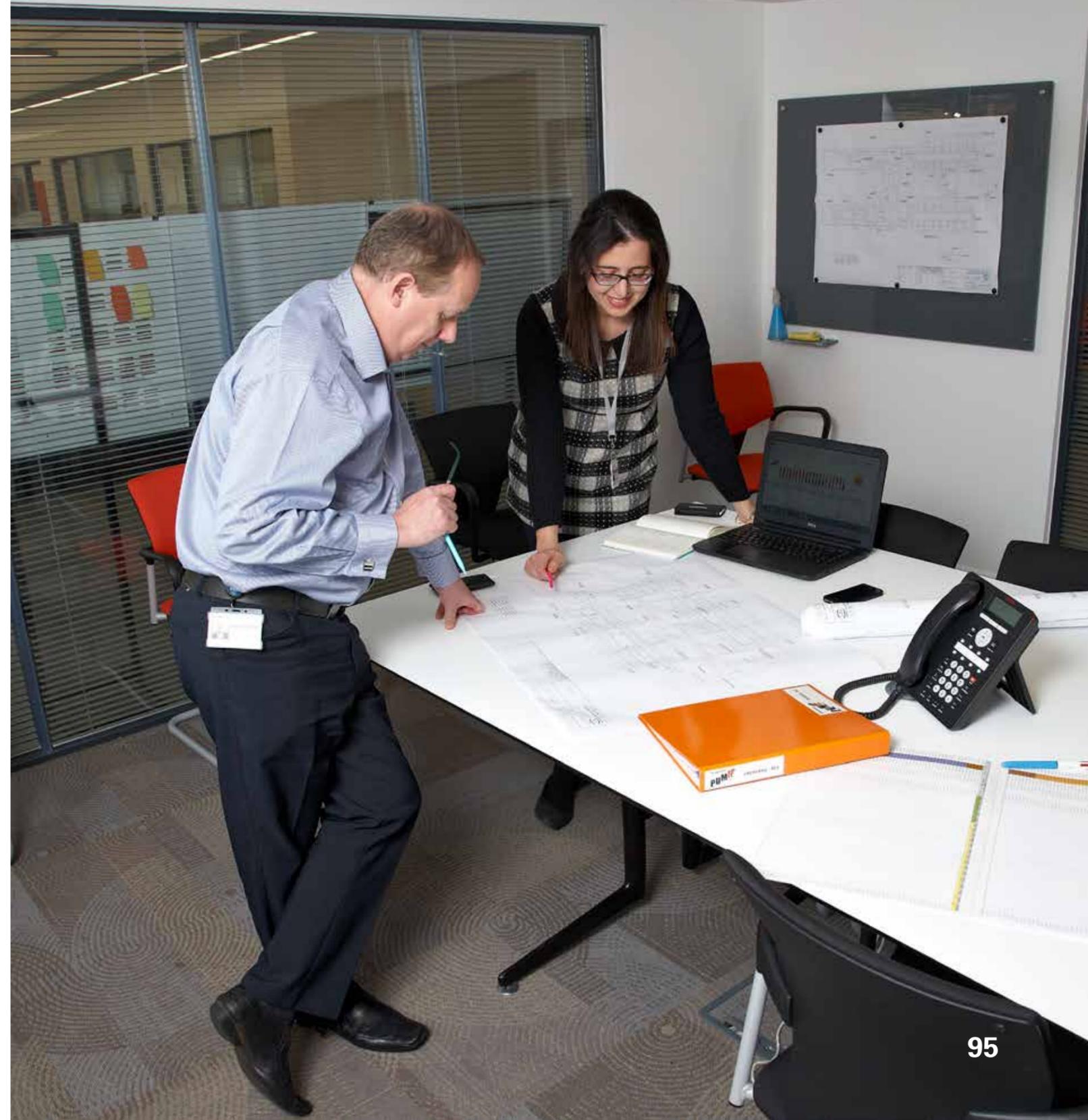
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D557/1200NW/XB	1200lm	4000K	14W	1200lm	86lm/W	3.5kg
D557/1800NW/XB	1800lm	4000K	21W	1800lm	86lm/W	3.5kg

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
Photocell	add suffix /PEC
Blank ends	add suffix /BE
Recessed	add suffix /R
Anti-ligature version	replace D557 with D558



We liaise with all stakeholders to ensure the successful delivery of your project, from initial concept through to completion.





# Visually enhance your architecture

Our robust spotlights, in ground and escalator luminaires create luminous paths for safe navigation. They also help enhance the visual impact of your architecture to help bring your buildings and urban spaces to life.

These fittings have high ingress protection (IP ratings) dependant on their application.

Most of our range (except CE Escalator) have two IP ratings. These fittings can be immersed in up to one metre of water. They can also withstand water, projected by a 12.5mm nozzle to ensure the areas around these luminaires can be cleaned using high pressure washers.

The in ground fittings are suitable for walk and drive over to BS EN 60598-2-13, equivalent to a 2.0 tonne static load!

Cool running LEDs result in very low heat on the glass, nsuring our luminaires are ideal for internal or external installation.

Our spotlights, in ground and escalator luminaires don't need to be opened for installation, reducing the risk of moisture ingress. They are factory sealed and include an integral driver, IP67 gland and a length of mains cable.

## Spotlights



CEB100



CEB150



CEB200



CESB100



CESB200



CERB2010

## Escalator and in ground luminaires



CE Escalator



CE100



CE150



CE200



CES100



CES200



CER2010

# CE100



Robust in ground LED units suitable for walk and drive over.

- Die cast aluminium body finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include sleeves, coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**

**MATT BLACK  
C04**

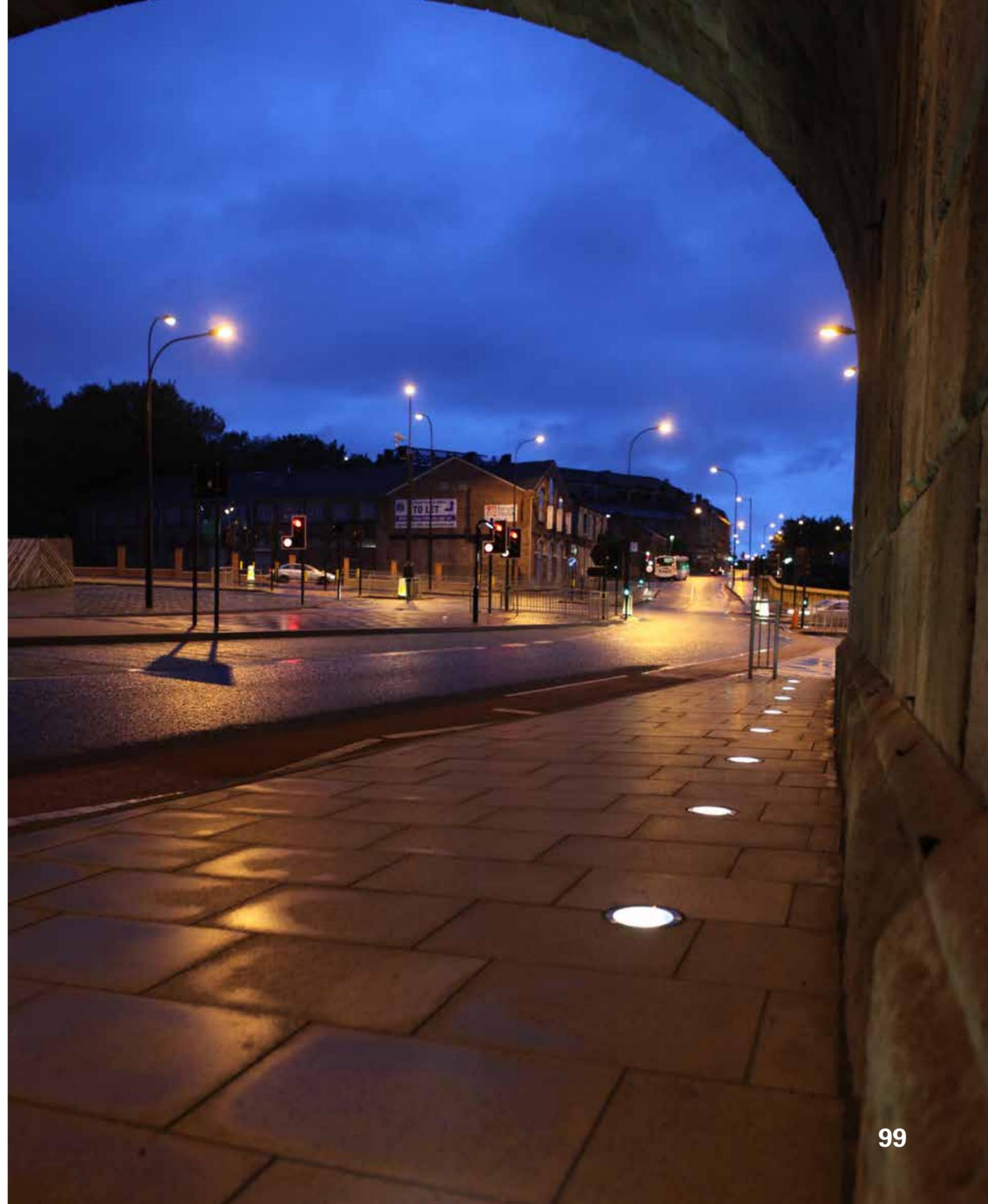
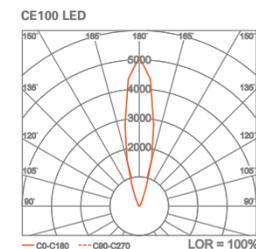
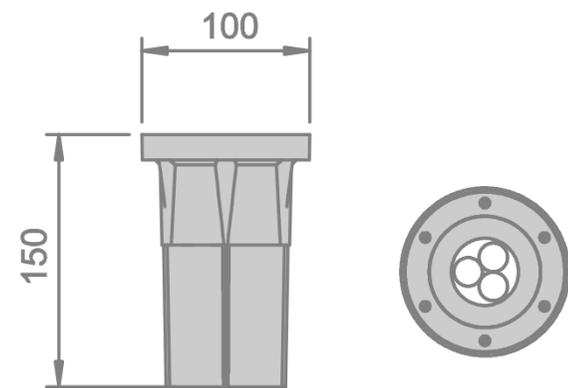
**LAMP OPTIONS**

CLEAR GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CE100/3X1MNW/C04	300lm	4000K	4W	273lm	70lm/W	3kg
CE100/3X2MNW/C04	400lm	4000K	5W	364lm	67lm/W	3kg

**FITTING OPTIONS**

Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W
Installation sleeve	add suffix /SLV





IP66 IP67

Tra. Urb.

# CEB100

Adjustable spotlight for flexible illumination and projection.

- Die cast aluminium body and stainless steel mounting bracket finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.



**FINISHES**

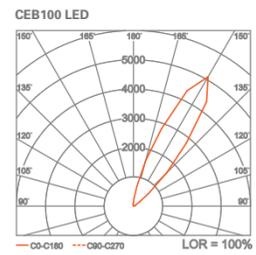
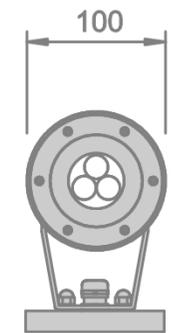
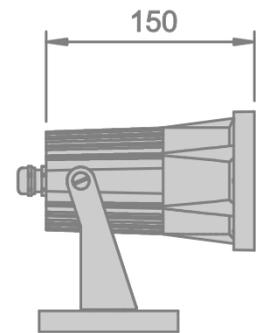
<b>MATT BLACK</b> C04	<b>MATT WHITE</b> C46	<b>MATT SILVER</b> C48
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**LAMP OPTIONS**

CLEAR GLASS	LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
	CEB100/3X1MNW/C04	300lm	4000K	4W	273lm	70lm/W	3.5kg
	CEB100/3X2MNW/C04	400lm	4000K	5W	364lm	67lm/W	3.5kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W



# CE150



Robust in ground LED units suitable for walk and drive over.

- Die cast aluminium body finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include sleeves, coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**

**MATT BLACK  
C04**

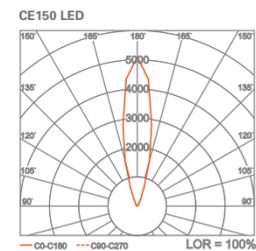
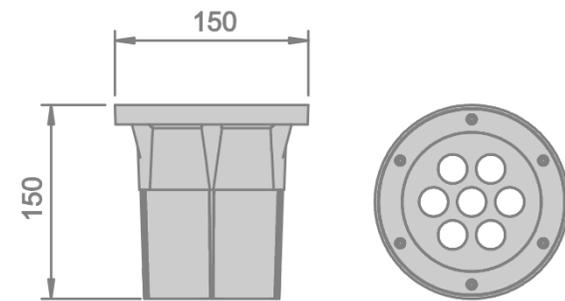
**LAMP OPTIONS**

CLEAR GLASS

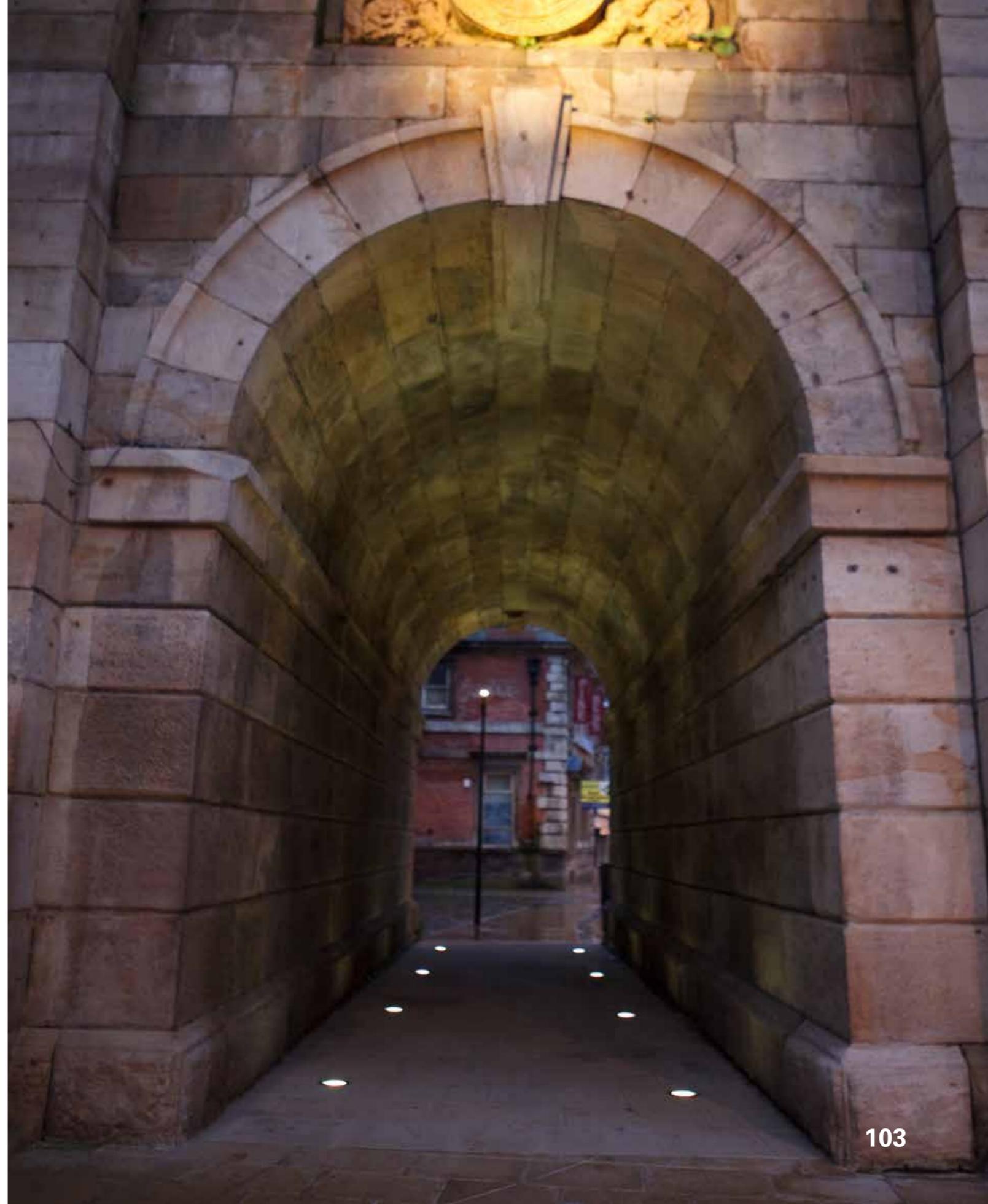
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CE150/7X1MNW/C04	700lm	4000K	9W	637lm	70lm/W	4kg
CE150/12X1MNW/C04	1200lm	4000K	16W	1092lm	70lm/W	4kg

**FITTING OPTIONS**

Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W
Warm white LEDs (3000K)	replace NW with WW
Optional colour LEDs	please contact technical sales
Installation sleeve	add suffix /SLV



*"deservedly popular"*  
Lux Review, June 2016





# CEB150

Adjustable spotlight for flexible illumination and projection.

- Die cast aluminium body and stainless steel mounting bracket finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.



**FINISHES**

<b>MATT BLACK</b> C04	<b>MATT WHITE</b> C46	<b>MATT SILVER</b> C48
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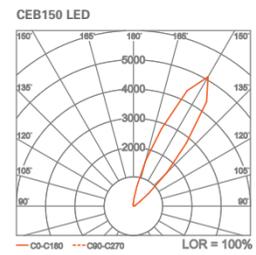
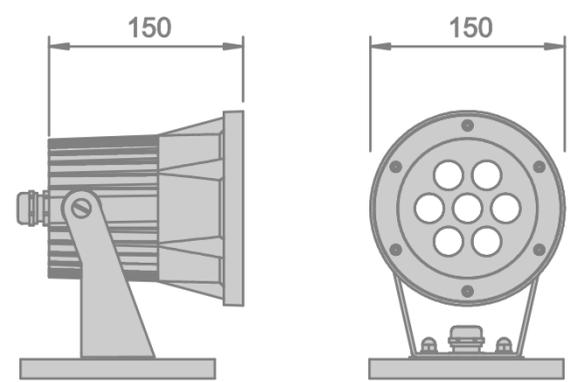
**LAMP OPTIONS**

CLEAR GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CEB150/7X1MNW/C04	700lm	4000K	9W	637lm	70lm/W	4.5kg
CEB150/12X1MNW/C04	1200lm	4000K	16W	1092lm	70lm/W	4.5kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W
Warm white LEDs (3000K)	replace NW with WW
Optional colour LEDs	please contact technical sales



# CE200



Robust in ground LED units suitable for walk and drive over.

- Die cast aluminium body finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include sleeves, coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**

**MATT BLACK  
C04**

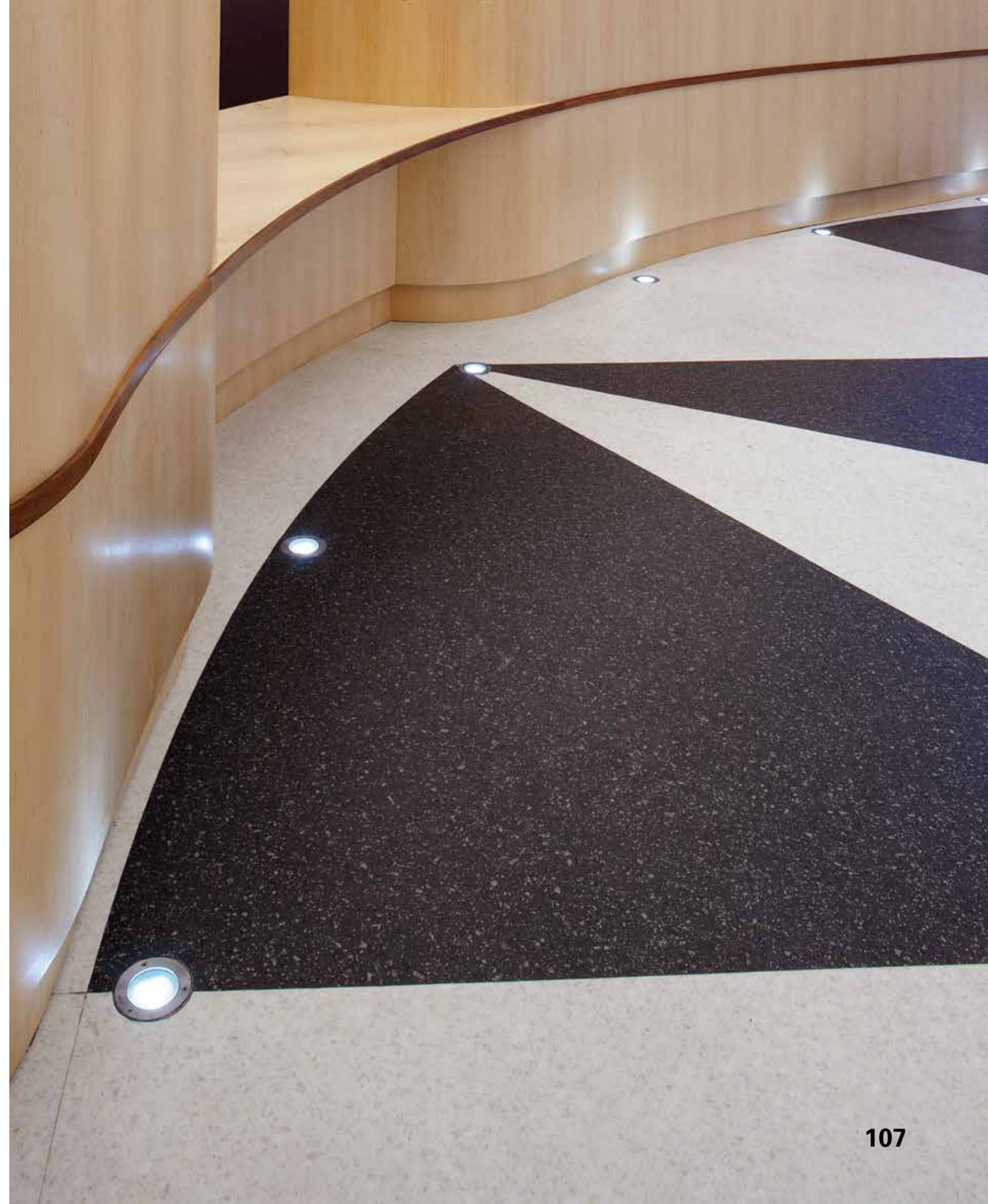
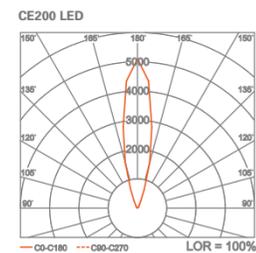
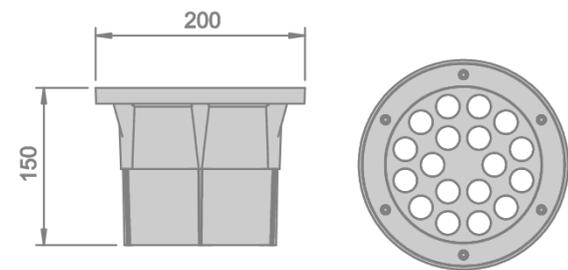
**LAMP OPTIONS**

CLEAR GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CE200/12X2MNW/C04	1675lm	4000K	22W	1524lm	71lm/W	5kg
CE200/18X1MNW/C04	1800lm	4000K	23W	1638lm	70lm/W	5kg

**FITTING OPTIONS**

Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W
Installation sleeve	add suffix /SLV











# CEB200

Adjustable spotlight for flexible illumination and projection.

- Die cast aluminium body and stainless steel mounting bracket finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.



**FINISHES**

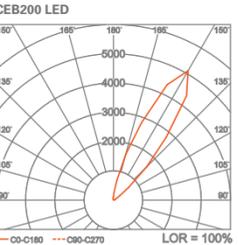
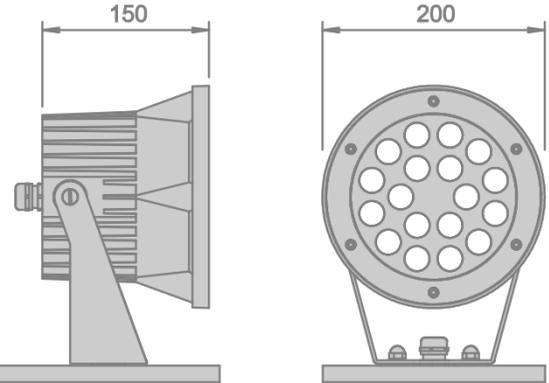
<b>MATT BLACK</b> C04	<b>MATT WHITE</b> C46	<b>MATT SILVER</b> C48
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**LAMP OPTIONS**

CLEAR GLASS	LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
	CEB200/12X2MNV/C04	1675lm	4000K	22W	1524lm	71lm/W	5.5kg
	CEB200/18X1MNV/C04	1800lm	4000K	23W	1638lm	70lm/W	5.5kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W



# CES100

Robust in ground LED units suitable for walk and drive over.



- Die cast aluminium body finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include sleeves, coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**

MATT BLACK  
C04

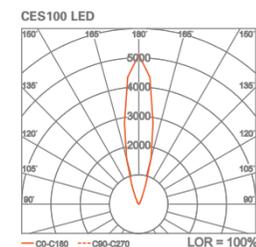
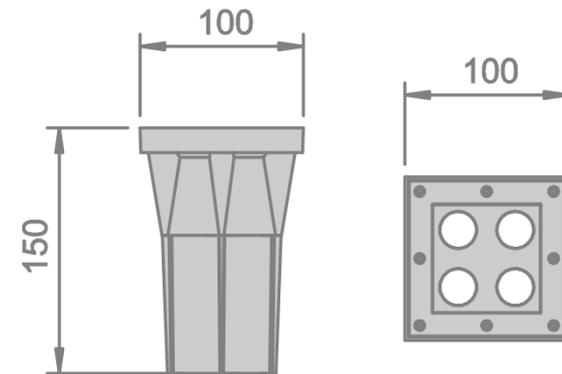
**LAMP OPTIONS**

CLEAR GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CES100/4X1MNV/C04	400lm	4000K	5W	364lm	70lm/W	3.5kg
CES100/4X2MNV/C04	550lm	4000K	7W	501lm	70lm/W	3.5kg

**FITTING OPTIONS**

Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Installation sleeve	add suffix /SLV



# CESB100

Adjustable spotlight for flexible illumination and projection.



- Die cast aluminium body and stainless steel mounting bracket finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**

MATT BLACK C04    MATT WHITE C46    MATT SILVER C48

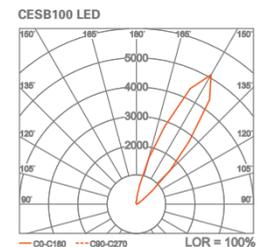
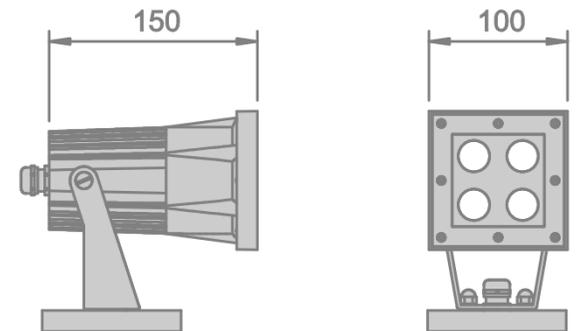
**LAMP OPTIONS**

CLEAR GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CESB100/4X1MNV/C04	400lm	4000K	5W	364lm	70lm/W	4kg
CESB100/4X2MNV/C04	550lm	4000K	7W	501lm	70lm/W	4kg

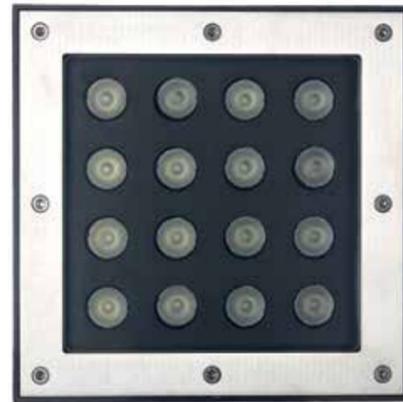
**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P



# CES200

Robust in ground LED units suitable for walk and drive over.



- Die cast aluminium body finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include sleeves, coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**



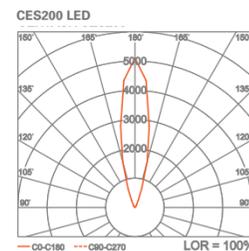
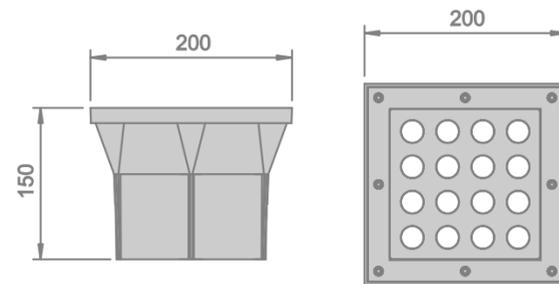
**LAMP OPTIONS**

CLEAR GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CES200/16X1MNV/C04	1600lm	4000K	21W	1456lm	70lm/W	5.5kg
CES200/16X2MNV/C04	2200lm	4000K	29W	2002lm	70lm/W	5.5kg

**FITTING OPTIONS**

Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W
Installation sleeve	add suffix /SLV



# CESB200

Adjustable spotlight for flexible illumination and projection.



- Die cast aluminium body and stainless steel mounting bracket finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**



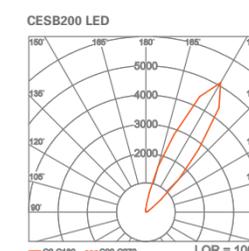
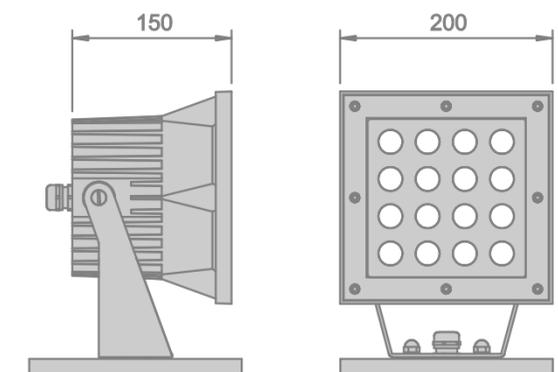
**LAMP OPTIONS**

CLEAR GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CESB200/16X1MNV/C04	1600lm	4000K	21W	1456lm	70lm/W	6kg
CESB200/16X2MNV/C04	2200lm	4000K	29W	2002lm	70lm/W	6kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W



# CER2010

Robust in ground LED units suitable for walk and drive over.



- Die cast aluminium body finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include sleeves, coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**

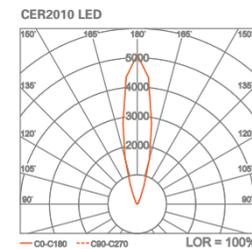
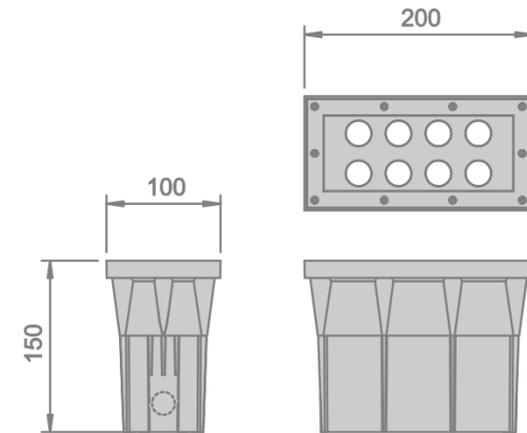


**LAMP OPTIONS**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CER2010/8X1MNW/C04	800lm	4000K	10W	728lm	70lm/W	4.5kg
CER2010/8X2MNW/C04	1100lm	4000K	14W	1001lm	70lm/W	4.5kg

**FITTING OPTIONS**

Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Wide optic	replace M with W
Installation sleeve	add suffix /SLV



# CERB2010

Adjustable spotlight for flexible illumination and projection.



- Die cast aluminium body and stainless steel mounting bracket finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into stainless steel frame.
- Flexible options include coloured lamps & clear polycarbonate diffusers.
- Integral electronic control gear.
- Sealed and supplied with a 3 metre mains lead as standard.

**FINISHES**

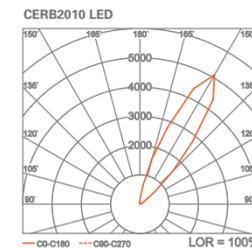
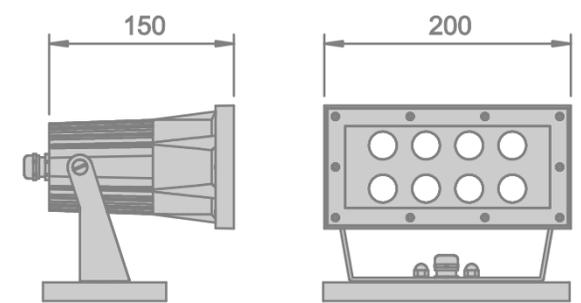


**LAMP OPTIONS**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CERB2010/8X1MNW/C04	800lm	4000K	10W	728lm	70lm/W	5kg
CERB2010/8X2MNW/C04	1100lm	4000K	14W	1001lm	70lm/W	5kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Frosted glass	add suffix /F
Polycarbonate 10mm panel	add suffix /P
Narrow optic	replace M with N
Optional colour LEDs	please contact technical sales



# CE Escalator



**FINISHES**



**LAMP OPTIONS**

CLEAR GLASS

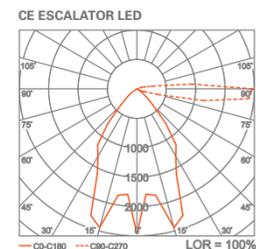
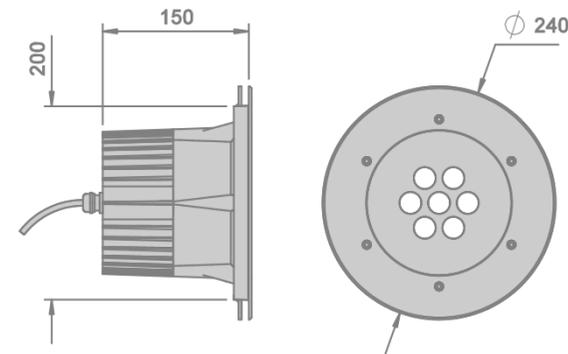
LED	Rating	Temp	Load	Lum/Im	Efficacy	Weight
CESC200/7X3NW/C04	1200 lm	4000K	18W	1092 lm	62 lm/W	4.5kg

**FITTING OPTIONS**

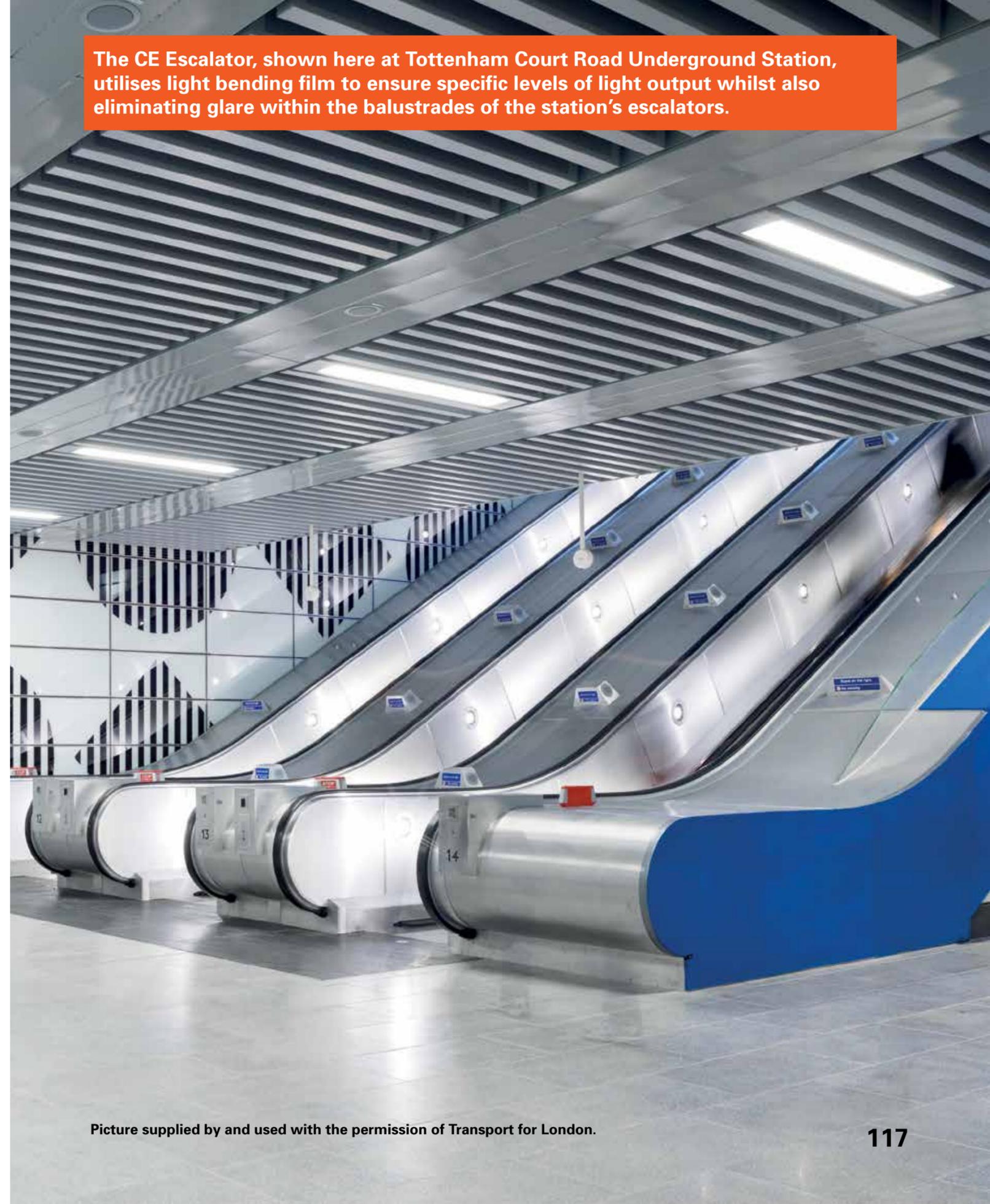
Matt silver finish	replace C04 with C48
Matt white finish	replace C04 with C46

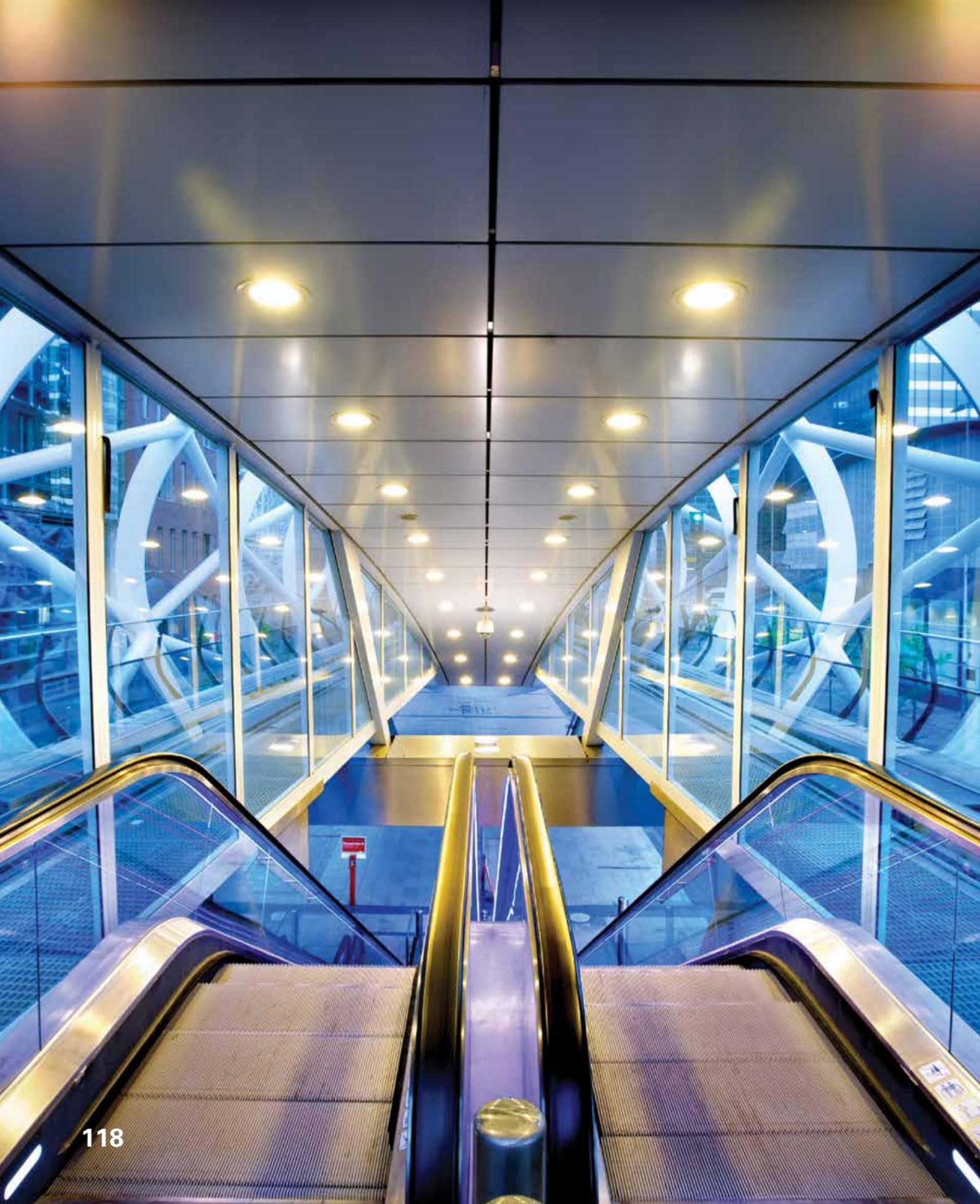
Robust and stylish recessed LED unit suitable for lighting escalators.

- Designed in accordance with fire precautions for subsurface rail stations (Section 12).
- Complies with London Underground subsurface standard 1-085 utilising low smoke, zero halogen cables and control gear.
- Angled LEDs, optics and light bending film to give specific output to light escalator treads with reduced glare.
- Die cast aluminium body finished in matt black polyester powder coat.
- Toughened clear glass diffuser set into silver anodised aluminium bezel.
- Integral electronic control gear with fused terminal block.
- Sealed and supplied with a 3 metre mains lead as standard.



The CE Escalator, shown here at Tottenham Court Road Underground Station, utilises light bending film to ensure specific levels of light output whilst also eliminating glare within the balustrades of the station's escalators.





Recessed ceiling mounted LED fitting for interior or exterior applications.

# Clarion 1

- Designed in accordance with fire precautions for subsurface rail stations (Section 12).
- Complies with London Underground subsurface standard 1-085 utilising low smoke, zero halogen cables and control gear.
- Die cast aluminium body and bezel finished in smooth white polyester powder coat.
- Printed glass diffuser and aluminium heat sink.
- Remote electronic control gear.
- Please note: stated IP rating applies from below only.



**FINISHES**

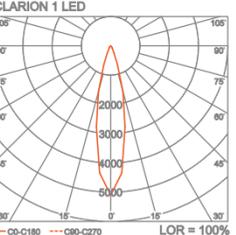
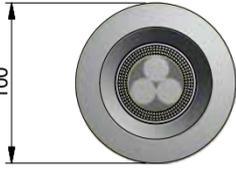
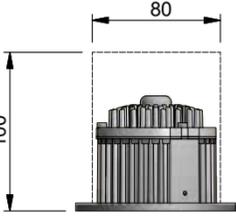
<b>SMOOTH WHITE</b> C31	<b>MATT SILVER</b> C48
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**LAMP OPTIONS**

GLASS DIFFUSER	Rating	Temp	Load	Lum/lm	Efficacy	Weight
LED						
CL1/3X1MNW/C31	300lm	4000K	4W	273lm	70lm/W	1kg
CL1/3X2MNW/C31	400lm	4000K	5W	364lm	67lm/W	1kg
CL1/3X3MNW/C31	500lm	4000K	8W	455lm	61lm/W	1kg

**FITTING OPTIONS**

Matt silver finish	replace C31 with C48
DALI dimming/monitoring	add suffix /DALI
Remote box 3 hour duration emergency	add suffix /EM3B





# CirCore



Slim circular bulkhead fitting for interior or exterior applications.

- Die cast aluminium body finished in black polyester powder coat.
- Suitable for wall or ceiling mounting.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

### FINISHES

TEXTURED BLACK  
B

TEXTURED WHITE  
W

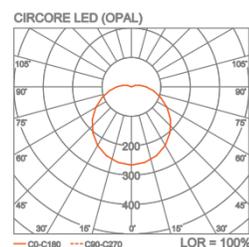
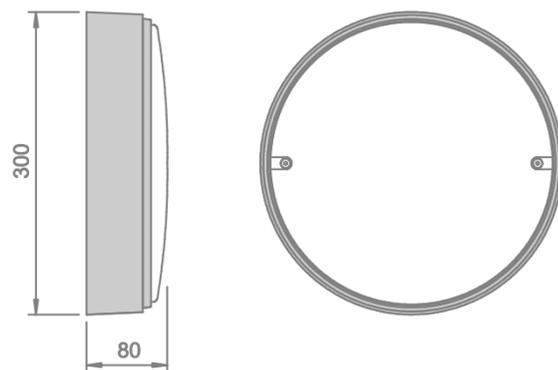
### LAMP OPTIONS

#### OPAL DIFFUSER

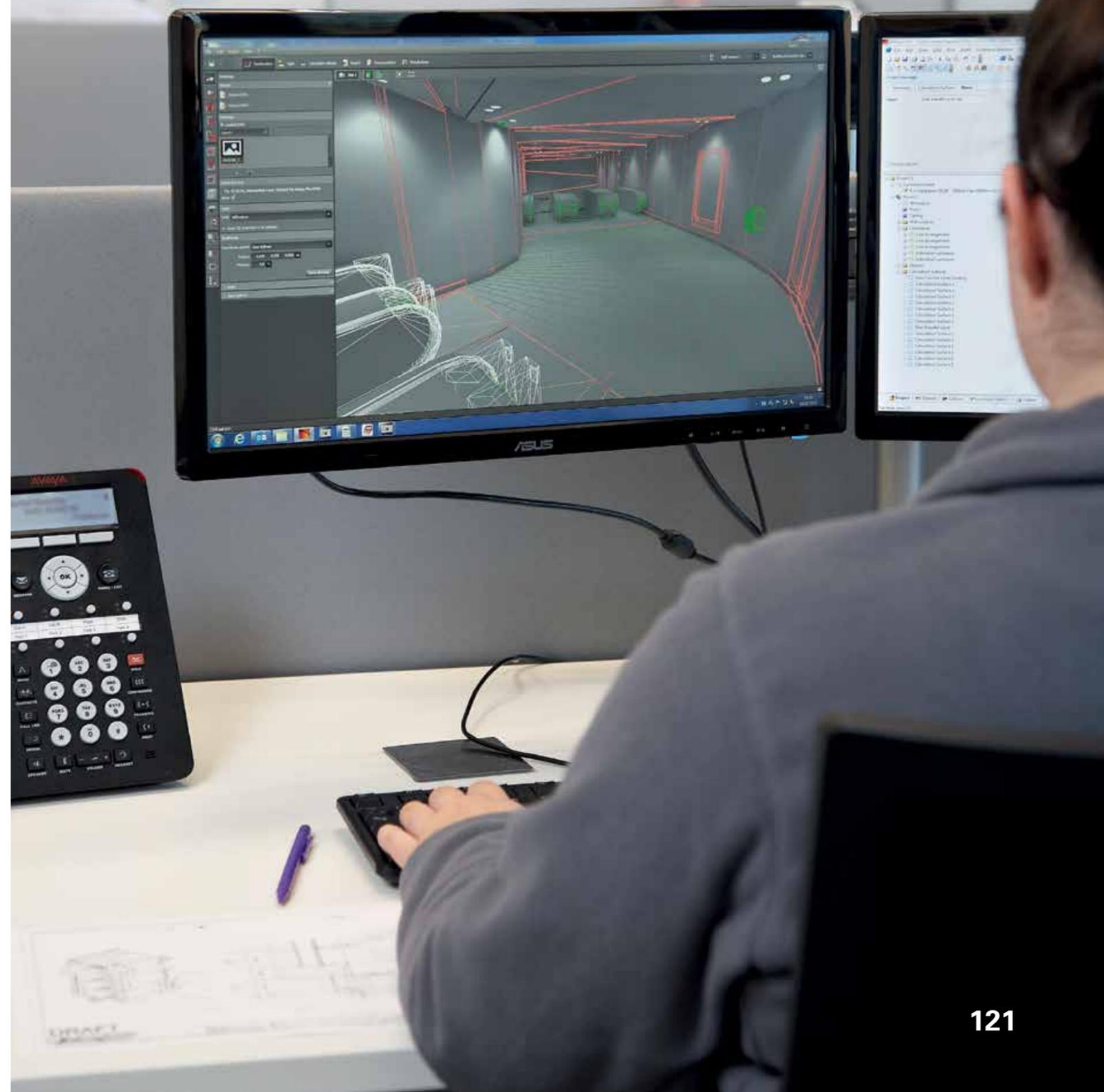
LED	Rating	Temp	Load	Lum/m	Efficacy	Weight	HT
CC/1300NW/XB	1300lm	4000K	14W	1300lm	91lm/W	3kg	HT50°
CC/1800NW/XB	1800lm	4000K	21W	1800lm	86lm/W	3kg	HT50°

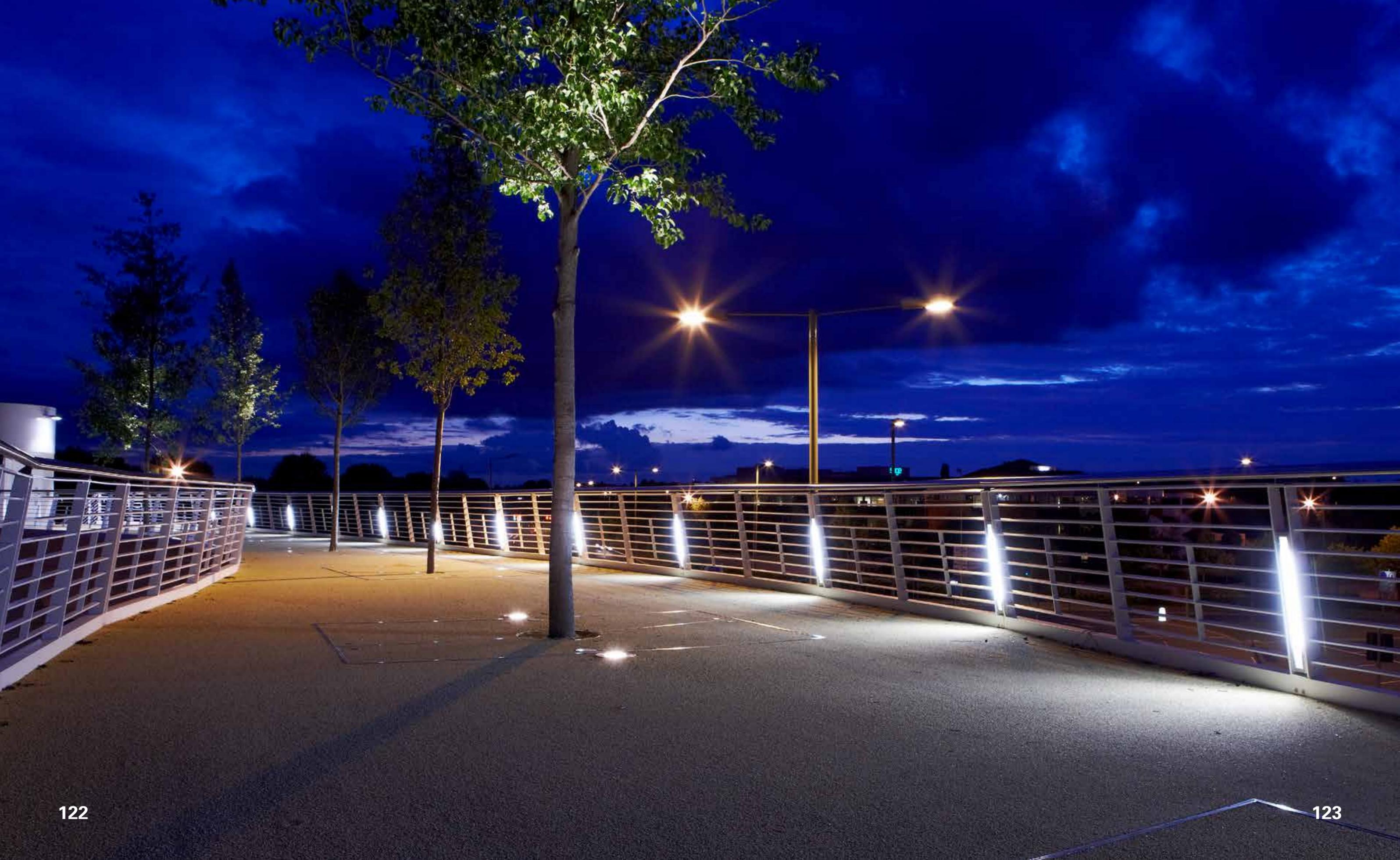
### FITTING OPTIONS

Textured white finish	replace B with W
Integral 3 hour duration emergency	add suffix /EM3
Microwave sensor - Basic	add suffix /MW/SB
Corridor function	add suffix /CF10
Side entry	add suffix /HH



Our lighting design team can create a virtual model of your building, recommending luminaires to suit your needs.



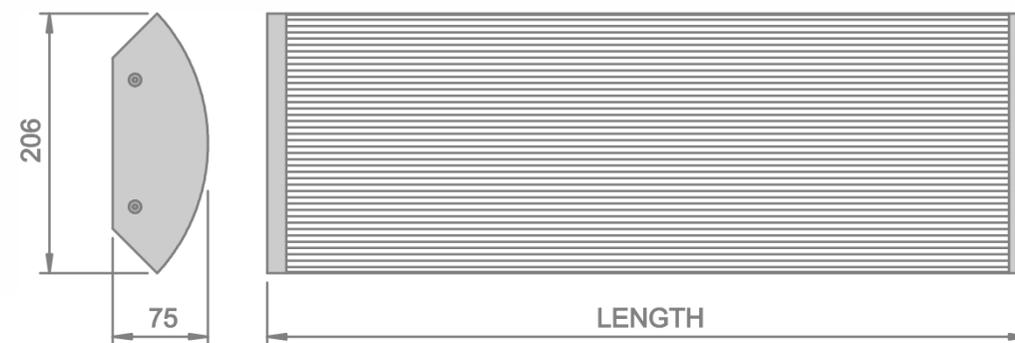
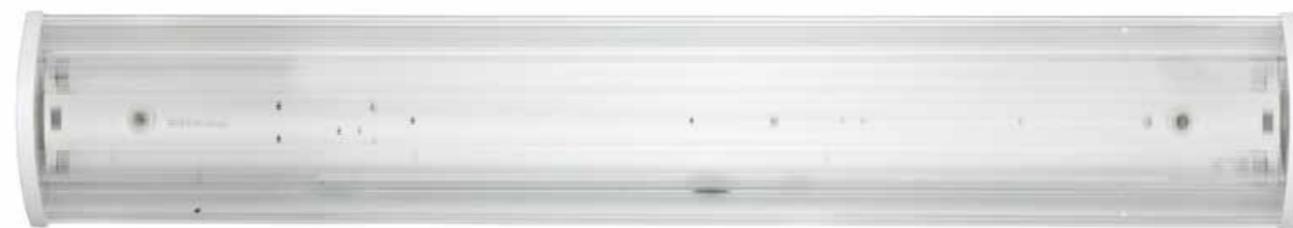


# Cove

Slim profile linear fitting with a variety of mounting options.



- Extruded control lens engineered to provide optimum Light Output Ratio of up to 75%.
- Suitable for cornice or semi-recessed mounting.
- Zinc coated steel body finished in smooth white polyester powder coat.
- Injection moulded polycarbonate ends.
- Polycarbonate diffuser held by end caps and secured to body against gasket by screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back gaskets provided.



## FINISHES

SMOOTH WHITE  
C31

## LAMP OPTIONS

### 600mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D975/2/2000NW/X	2000lm	4000K	18W	1700lm	94lm/W	3kg
D975/2/3000NW/X	3000lm	4000K	26W	2550lm	98lm/W	3kg
LINEAR FLUORESCENT - CLEAR						
D975/1/24T5	2000lm	N/A	25W	1320lm	53lm/W	3kg
D975/2/24T5	4000lm	N/A	47W	3000lm	64lm/W	3kg

### 1200mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D975/4/3000NW/X	3000lm	4000K	28W	2550lm	91lm/W	5kg
D975/4/4000NW/X	4000lm	4000K	35W	3400lm	97lm/W	5kg
D975/4/5000NW/X	5000lm	4000K	43W	4250lm	99lm/W	5kg
D975/4/6000NW/X	6000lm	4000K	51W	5100lm	100lm/W	5kg
LINEAR FLUORESCENT - CLEAR						
D975/1/28T5	2900lm	N/A	31W	1914lm	62lm/W	5kg
D975/2/28T5	5800lm	N/A	62W	4350lm	71lm/W	5kg
D975/1/54T5	5400lm	N/A	57W	3564lm	62lm/W	5kg

### 1500mm LONG

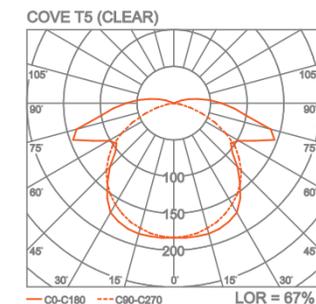
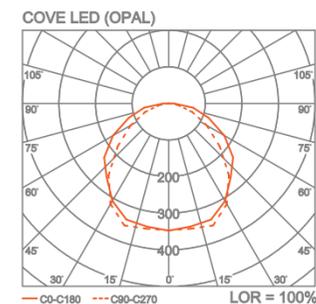
LED - OPAL	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D975/5/3750NW/X	3750lm	4000K	35W	3188lm	91lm/W	6.5kg
D975/5/5000NW/X	5000lm	4000K	44W	4475lm	102lm/W	6.5kg
D975/5/6250NW/X	6250lm	4000K	54W	5413lm	100lm/W	6.5kg
D975/5/7500NW/X	7500lm	4000K	63W	6375lm	101lm/W	6.5kg
LINEAR FLUORESCENT						
D975/1/35T5	3650lm	N/A	37W	2409lm	65lm/W	6.5kg
D975/2/35T5	7300lm	N/A	74W	5475lm	74lm/W	6.5kg
D975/1/49T5	4900lm	N/A	54W	3234lm	60lm/W	6.5kg
D975/2/49T5	9800lm	N/A	106W	7350lm	69lm/W	6.5kg

## FITTING OPTIONS

Opal diffuser	add suffix /X
Integral 3 hour duration emergency*	add suffix /EM3
Self test 3 hour duration emergency*	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Corridor function**	add suffix /CF10
Microwave sensor - Basic	add suffix /MWSB
Cornice mount version	please order D975/ENDS in addition to each fitting
Continuous mounting	please contact technical sales

\*No emergency options available on all 2 foot (600mm) versions

\*\*CF10 option available on LED only





# Cove Mini



Slim bulkhead fitting for corridors and stairway applications.

- Suitable for wall mounting.
- Zinc coated steel body and die-cast aluminium end caps finished in matt silver polyester powder coat.
- Extruded opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**



**LAMP OPTIONS**

OPAL DIFFUSER

**625mm LONG**

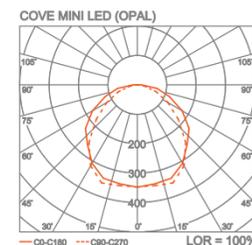
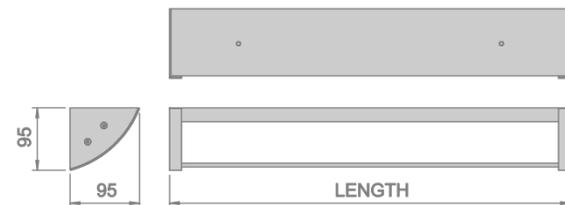
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D966/2/1250NW/XC48	1250lm	4000K	10W	1000lm	100lm/W	2kg
D966/2/1500NW/XC48	1500lm	4000K	13W	1200lm	96lm/W	2kg

**1230mm LONG**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D966/4/2500NW/XC48	2500lm	4000K	20W	2000lm	100lm/W	4kg
D966/4/3000NW/XC48	3000lm	4000K	25W	2400lm	96lm/W	4kg

**FITTING OPTIONS**

Matt white finish	replace C48 with C46
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Warm white LEDs (3000K)	replace NW with WW



# Curso



Recessed vandal and weather resistant circular fitting.

- Suitable for wall mounting.
- Die cast aluminium body finished in matt black polyester powder coat.
- Clear polycarbonate diffuser held against gasket by tamperproof screws.
- Integral electronic control gear.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**



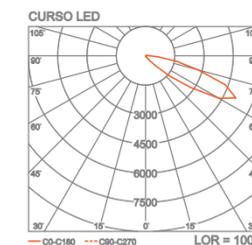
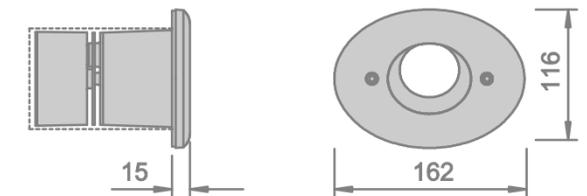
**LAMP OPTIONS**

PATTERNED GLASS

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
CUR/3X1MNW/C04	300lm	4000K	4W	273lm	70lm/W	1.5kg
CUR/3X2MNW/C04	400lm	4000K	5W	364lm	67lm/W	1.5kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48



Our luminaires are specifically designed for a range of rail applications including platform and under canopy lighting.

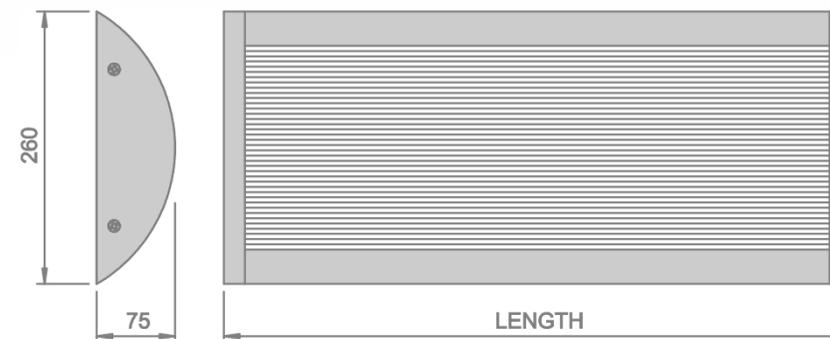


# Curve VR



Reinforced fitting for surface ceiling mounting.

- Extruded control lens engineered to provide optimum Light Output Ratio of up to 75%.
- Suitable for ceiling mounting.
- Zinc coated steel body finished in black polyester powder coat.
- Die cast aluminium ends.
- Polycarbonate diffuser held by end caps and secured to body against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.



## FINISHES

TEXTURED BLACK  
B

TEXTURED WHITE  
W

MATT SILVER  
C48

## LAMP OPTIONS

### 600mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lm	Efficacy	Weight
VRC/2/2000NW/XB	2000lm	4000K	18W	1700lm	94lm/W	3.5kg
VRC/2/3000NW/XB	3000lm	4000K	26W	2550lm	98lm/W	3.5kg
LINEAR FLUORESCENT - CLEAR						
VRC/124T5/B	2000lm	N/A	25W	1320lm	53lm/W	3.5kg
VRC/224T5/B	4000lm	N/A	47W	3000lm	64lm/W	3.5kg

### 1200mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lm	Efficacy	Weight
VRC/4/3000NW/XB	3000lm	4000K	28W	2550lm	91lm/W	5.5kg
VRC/4/4000NW/XB	4000lm	4000K	35W	3400lm	97lm/W	5.5kg
VRC/4/5000NW/XB	5000lm	4000K	43W	4250lm	99lm/W	5.5kg
VRC/4/6000NW/XB	6000lm	4000K	51W	5100lm	100lm/W	5.5kg
LINEAR FLUORESCENT - CLEAR						
VRC/128T5/B	2900lm	N/A	31W	1914lm	62lm/W	5.5kg
VRC/228T5/B	5800lm	N/A	62W	4350lm	71lm/W	5.5kg
VRC/154T5/B	5400lm	N/A	57W	3564lm	62lm/W	5.5kg

### 1500mm LONG

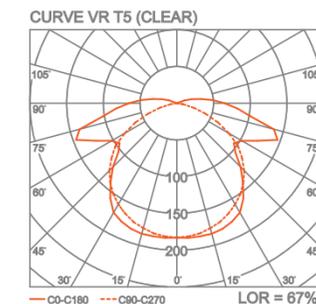
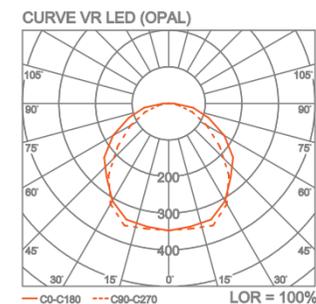
LED - OPAL	Rating	Temp	Load	Lum/lm	Efficacy	Weight
VRC/5/3750NW/B	3750lm	4000K	35W	3188lm	91lm/W	7kg
VRC/5/5000NW/B	5000lm	4000K	44W	4475lm	102lm/W	7kg
VRC/5/6250NW/B	6250lm	4000K	54W	5413lm	100lm/W	7kg
VRC/5/7500NW/B	7500lm	4000K	63W	6375lm	101lm/W	7kg
LINEAR FLUORESCENT - CLEAR						
VRC/135T5/B	3650lm	N/A	37W	2409lm	65lm/W	7kg
VRC/235T5/B	7300lm	N/A	74W	5475lm	74lm/W	7kg
VRC/149T5/B	4900lm	N/A	54W	3234lm	60lm/W	7kg
VRC/249T5/B	9800lm	N/A	106W	7350lm	69lm/W	7kg

## FITTING OPTIONS

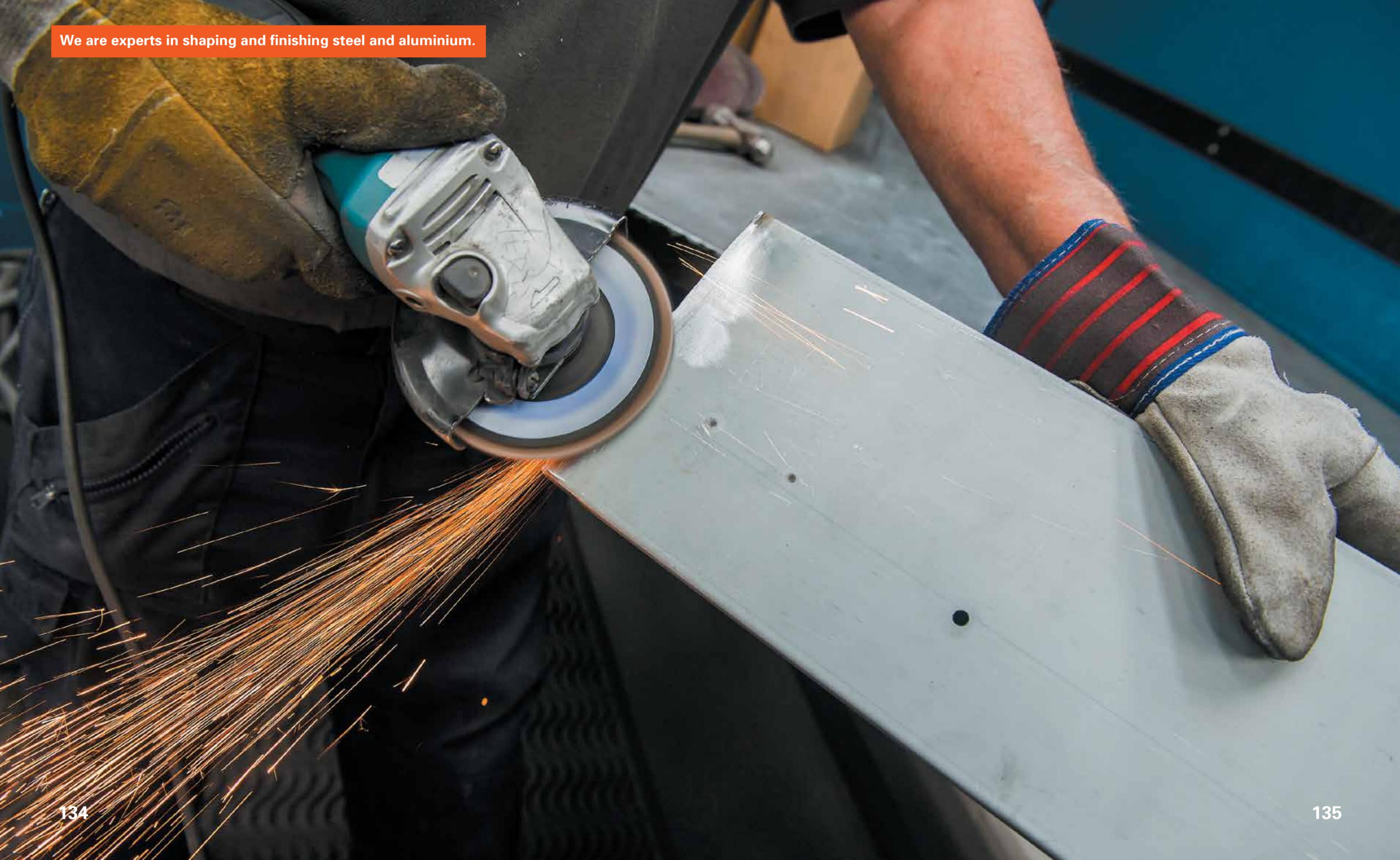
Textured white finish	replace B with W
Matt silver finish	replace B with C48
Integral 3 hour duration emergency*	add suffix /EM3
Self test 3 hour duration emergency*	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Corridor function**	add suffix /CF10
Microwave sensor - Basic	add suffix /MWSB
Continuous mounting	please contact technical sales
Warm white LEDs (3000K)	replace NW with WWW

\*No emergency options available on all 2 foot (600mm) versions

\*\*CF10 option available on LED only



We are experts in shaping and finishing steel and aluminium.



Manual and automated manufacturing methods are combined to ensure product durability.



IK15  
125J

IP65

HT

Tra.

Urb.

Soc.

Stylish and robust circular bulkhead with light output of up to 113 lm/W.

# Duomo

- Attractive LED only fitting, providing uniform light distribution and impressive light output of up to 113 luminaire lumens per circuit watt.
- Suitable for wall or ceiling mounting.
- Aluminium die-cast body finished in titanium polyester powder coat.
- Opal polycarbonate diffuser held in place with Resistorx tamper resistant screws.
- Electronic control gear on removable tray with fused plug and socket connector block.
- Provision for conduit entry in back, gaskets provided.
- 5 year warranty (full product).



#### FINISHES

TITANIUM C49	MATT SILVER C48	MATT WHITE C46
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#### LAMP OPTIONS

##### OPAL DIFFUSER

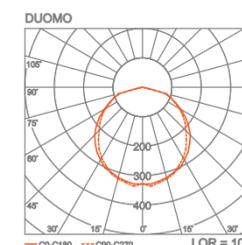
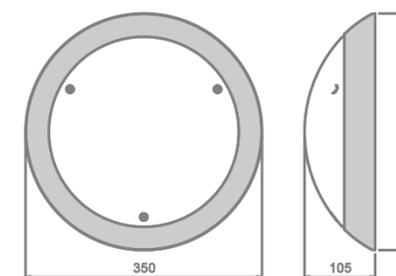
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight	HT
DU35/1000NW/XC49	1000lm	4000K	8W	904lm	113lm/W	3kg	HT50°
DU35/1400NW/XC49	1400lm	4000K	11W	1235lm	111lm/W	3kg	HT50°
DU35/1900NW/XC49	1900lm	4000K	16W	1667lm	105lm/W	3kg	HT50°
DU35/2400NW/XC49	2400lm	4000K	23W	2203lm	97lm/W	3kg	HT40°

#### FITTING OPTIONS

Matt silver finish	replace C49 with C48
Matt white finish	replace C49 with C46
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix /MWSB
Corridor function	add suffix /CF10
Warm white LEDs (3000K)	replace NW with WW

CF10 will only work if combined with /MWSB or /MWSA, or an external presence detection sensor supplied by others.

If you require more than one fitting option, please contact technical sales on +44 (0)20 8254 2022 or e-mail [technical@designplan.co.uk](mailto:technical@designplan.co.uk)



HT

Applies to standard version. For any options (e.g. EM3) and to check 50° application for DU35/2400NW/XC31 please contact technical sales.

# Flair range

The Flair range is a family of robust linear products with a variety of mounting options for internal and external applications, often in the Transport sector.

At its heart a flexible and elegant range of products, the Flair fittings are often specified for areas where lighting levels need to be maximised with a limited number of fittings.

Many products in the Flair range have reflective louvres to help distribute light evenly on station concourses, walkways and other pedestrian areas. Flair fittings can be mounted in awkward corners and suspended from ceilings to ensure continuity of light in public areas.

We've recently launched **FlairEvo** a modular lighting system offering continuous linear illumination for subsurface rail applications.

For more information on which Flair luminaire is right for your application, please contact our customer service team on +44 (0)20 8254 2020.



# Flair



**FINISHES**



**LAMP OPTIONS**

CLEAR DIFFUSER

**615mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
FLR/2/1500NW/PC48	1500lm	4000K	15W	1314lm	88lm/W	4.5kg
FLR/2/2000NW/PC48	2000lm	4000K	18W	1752lm	97lm/W	4.5kg
FLR/2/2500NW/PC48	2500lm	4000K	22W	2190lm	99lm/W	4.5kg
FLR/2/3000NW/PC48	3000lm	4000K	26W	2628lm	101lm/W	4.5kg

**1215mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
FLR/4/3000NW/PC48	3000lm	4000K	28W	2628lm	94lm/W	8.5kg
FLR/4/4000NW/PC48	4000lm	4000K	35W	3504lm	100lm/W	8.5kg
FLR/4/5000NW/PC48	5000lm	4000K	43W	4380lm	102lm/W	8.5kg
FLR/4/6000NW/PC48	6000lm	4000K	51W	5256lm	102lm/W	8.5kg

LINEAR FLUORESCENT

FLR/128T5/PC48	2625lm	N/A	31W	2021lm	65lm/W	8.5kg
FLR/228T5/PC48	5250lm	N/A	62W	3864lm	63lm/W	8.5kg
FLR/154T5/PC48	4450lm	N/A	57W	3427lm	60lm/W	8.5kg
FLR/254T5/PC48	8900lm	N/A	117W	6550lm	56lm/W	8.5kg

Robust vandal and weather resistant linear fitting for interior or exterior use.

- Versatile fitting with easy installation and high LOR ratings.
- Suitable for ceiling or optional recessed mounting.
- Extruded aluminium body and die cast end caps finished in matt silver polyester powder coat.
- Clear polycarbonate diffuser and reflective louvre held against silicone gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

**1515mm LONG**

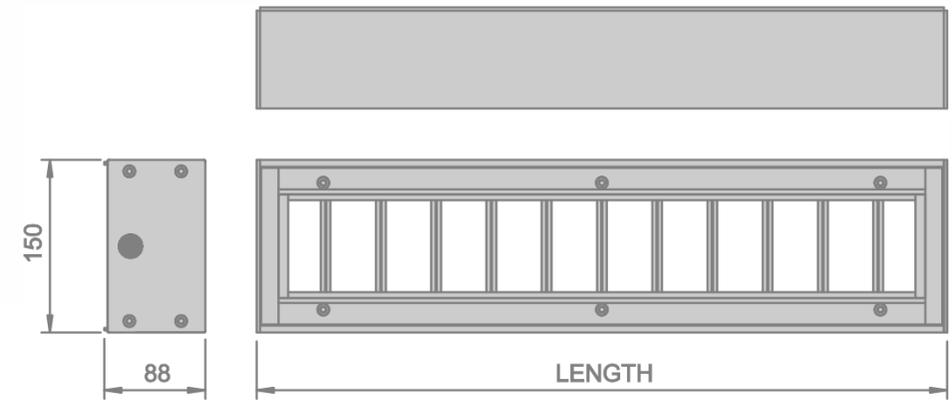
LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
FLR/5/3750NW/PC48	3750lm	4000K	35W	3285lm	94lm/W	11.5kg
FLR/5/5000NW/PC48	5000lm	4000K	44W	4380lm	99lm/W	11.5kg
FLR/5/6250NW/PC48	6250lm	4000K	54W	5475lm	101lm/W	11.5kg
FLR/5/7500NW/PC48	7500lm	4000K	63W	6570lm	104lm/W	11.5kg

LINEAR FLUORESCENT

FLR/135T5/PC48	3325lm	N/A	37W	2560lm	69lm/W	11.5kg
FLR/235T5/PC48	6650lm	N/A	74W	4894lm	66lm/W	11.5kg
FLR/149T5/PC48	4375lm	N/A	54W	3369lm	63lm/W	11.5kg
FLR/249T5/PC48	8750lm	N/A	106W	6440lm	61lm/W	11.5kg

**S12**

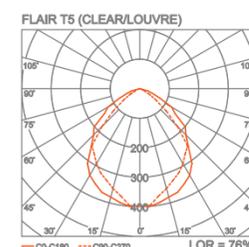
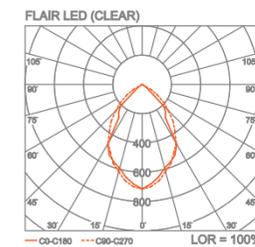
Section 12 compliant versions available (IK8). For section 12 version with clear glass diffuser add suffix /S12C. For section 12 version with frosted glass diffuser add suffix /S12F.



**FITTING OPTIONS**

Pure white finish	replace C48 with C32
Opal diffuser (no louvre)	replace P with X
Section 12 clear glass (IK8)	replace P with S12C
Section 12 frosted glass (IK8)	replace P with S12F
Warm white LEDs (3000K)	replace NW with WW
Integral 3 hour duration emergency*	add suffix /EM3
Self test 3 hour duration emergency*	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Recessed (includes 20mm flange all round, add 8mm to width and length shown).	add suffix /R
End entry(s)	add suffix /H or /HH

\*No emergency options available on all 2 foot (615mm) LED versions and the 4 foot (1215mm) 2x54W T5 version



# FlairEvo

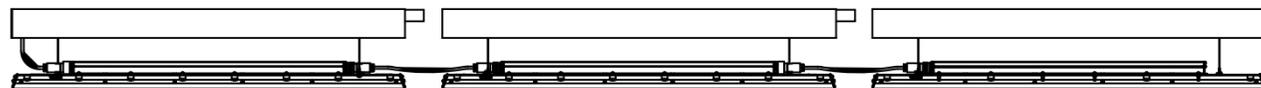
Modular lighting system offering continuous linear illumination for subsurface rail applications.



- Designed in accordance with fire precautions for subsurface rail stations (Section 12).
- Complies with London Underground subsurface standard 1-085 utilising low smoke, zero halogen cables and control gear.
- Adaptable modular system which can be stand-alone, drop rod suspended, surface mounted or used in a recessed style with shadow gap (e.g. for metal plank ceilings).
- Extruded aluminium body finished in matt silver polyester powder coat.
- Toughened glass diffuser with opal laminate.
- LEDs, electronic DALI control gear and diffuser supplied in a sealed module that is removable, replaceable and upgradable.
- Five year full product warranty\*.

Continuous illumination in three easy steps

FlairEvo needs just three things to provide continuous illumination. A beginning, a middle and an end.



### Beginning

Choose any length of **FlairEvo**, in this case 1,444mm long. Specify CB in the part number.

FV/5/L/3000NW/XC48/DALI/CB

### Middle

Select your middle unit(s), in this case 1,164mm long. Specify CM in the part number.

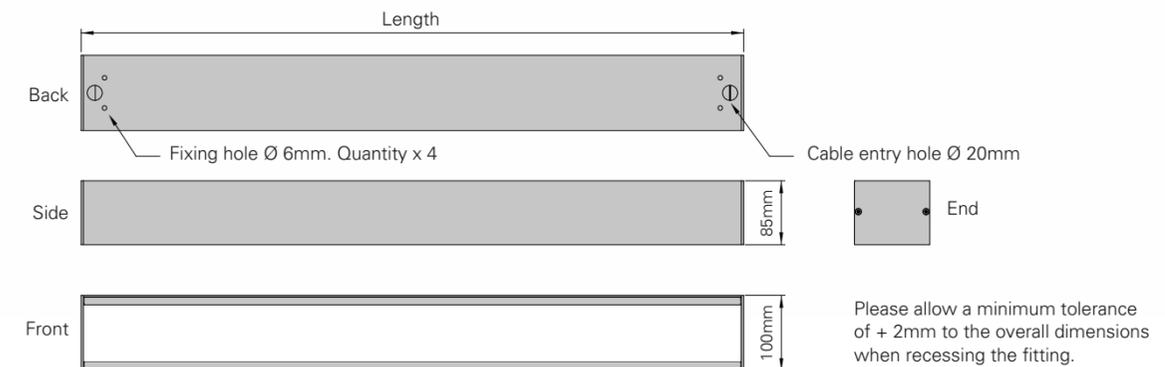
FV/4/L/2400NW/XC48/DALI/CM

### End

Choose your final **FlairEvo**, in this case 1,444mm long. Specify CE in the part number.

FV/5/L/3000NW/XC48/DALI/CE

\* Five year full product warranty based on operation up to the stated HT ambient temperature and at constant use, except the emergency battery packs which carry a 12 month warranty.



### RATING OPTIONS (STAND ALONE, SURFACE OR RECESSED)

LED - Opal	Dimensions (mm)	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
<b>Low output*</b>								
FV/2/L/1200NW/XC48/DALI	L600 x W100 x H85	1200lm	4000K	10W	1170lm	119lm/W	5kg	HT50°
FV/3/L/1800NW/XC48/DALI	L880 x W100 x H85	1800lm	4000K	14W	1755lm	123lm/W	7kg	HT50°
FV/4/L/2400NW/XC48/DALI	L1164 x W100 x H85	2400lm	4000K	20W	2340lm	119lm/W	8kg	HT50°
FV/5/L/3000NW/XC48/DALI	L1444 x W100 x H85	3000lm	4000K	25W	2925lm	117lm/W	10kg	HT50°

<b>High output*</b>								
FV/2/H/2000NW/XC48/DALI	L600 x W100 x H85	2000lm	4000K	19W	2119lm	113lm/W	5kg	HT40°
FV/3/H/3000NW/XC48/DALI	L880 x W100 x H85	3000lm	4000K	28W	3178lm	113lm/W	7kg	HT40°
FV/4/H/4000NW/XC48/DALI	L1164 x W100 x H85	4000lm	4000K	38W	4237lm	113lm/W	8kg	HT40°
FV/5/H/5000NW/XC48/DALI	L1444 x W100 x H85	5000lm	4000K	47W	5297lm	113lm/W	10kg	HT40°

\* When specifying continuous illumination, low and high output versions should not be mixed

### FITTING OPTIONS

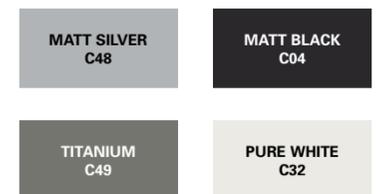
Matt black finish	replace C48 with C04
Titanium finish	replace C48 with C49
Pure white finish	replace C48 with C32
Integral 3 hour duration emergency*	add suffix /EM3
DALI 3 hour duration emergency*	add suffix /EM3D
Warm white LEDs (3000K)	replace NW with WW
Microwave sensor - Basic	add suffix /MWSB
Continuous beginning (deduct 3mm from length for end cap)	add suffix /CB
Continuous middle (deduct 6mm from length for end caps)	add suffix /CM
Continuous end (deduct 3mm from length for end cap)	add suffix /CE
Power feed entry through end cap	add suffix /H
Suspended (contact us to discuss your requirements)	add suffix /S and length of drop rod (mm)
Flanged recessed body (e.g. for plaster board ceilings)	add suffix /R

\*No emergency options available on all 2 foot (600mm) and 3 foot (880mm) versions

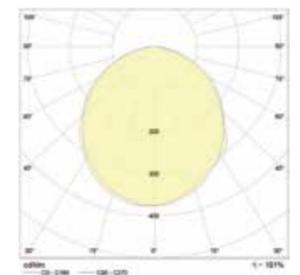


Applies to standard version. For any options (e.g. EM3), please contact technical sales.

### FINISHES



### FLAIREVO LED





# Flair Angled

Angled vandal and weather resistant fitting for interior or exterior use.

- Versatile fitting with easy application and high LOR ratings.
- Suitable for wall mounting.
- Zinc coated steel body finished in matt silver polyester powder coat.
- Clear polycarbonate diffuser held against silicone gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.



## FINISHES

MATT SILVER  
C48

PURE WHITE  
C32

## LAMP OPTIONS

### CLEAR DIFFUSER

#### 615mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
FLRA/2/1500NW/PC48	1500lm	N/A	15W	1314lm	88lm/W	4.5kg
FLRA/2/2000NW/PC48	2000lm	N/A	18W	1752lm	97lm/W	4.5kg
FLRA/2/2500NW/PC48	2500lm	N/A	22W	2190lm	99lm/W	4.5kg
FLRA/2/3000NW/PC48	3000lm	N/A	26W	2628lm	101lm/W	4.5kg

#### 1215mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
FLRA/4/3000NW/PC48	3000lm	4000K	28W	2628lm	94lm/W	8.5kg
FLRA/4/4000NW/PC48	4000lm	4000K	35W	3504lm	100lm/W	8.5kg
FLRA/4/5000NW/PC48	5000lm	4000K	43W	4380lm	102lm/W	8.5kg
FLRA/4/6000NW/PC48	6000lm	4000K	51W	5256lm	102lm/W	8.5kg

### LINEAR FLUORESCENT

FLRA/128T5/PC48	2625lm	N/A	31W	2021lm	65lm/W	8.5kg
FLRA/228T5/PC48	5250lm	N/A	62W	3864lm	63lm/W	8.5kg
FLRA/154T5/PC48	4450lm	N/A	57W	3427lm	60lm/W	8.5kg
FLRA/254T5/PC48	8900lm	N/A	117W	6550lm	56lm/W	8.5kg

#### 1515mm LONG

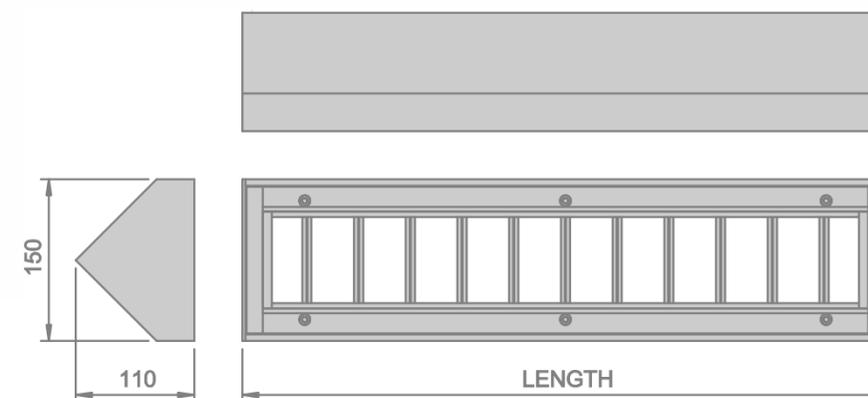
LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
FLRA/5/3750NW/PC48	3750lm	4000K	35W	3285lm	94lm/W	11.5kg
FLRA/5/5000NW/PC48	5000lm	4000K	44W	4380lm	99lm/W	11.5kg
FLRA/5/6250NW/PC48	6250lm	4000K	54W	5475lm	101lm/W	11.5kg
FLRA/5/7500NW/PC48	7500lm	4000K	63W	6570lm	104lm/W	11.5kg

### LINEAR FLUORESCENT

FLRA/135T5/PC48	3325lm	N/A	37W	2560lm	69lm/W	11.5kg
FLRA/235T5/PC48	6650lm	N/A	74W	4894lm	66lm/W	11.5kg
FLRA/149T5/PC48	4375lm	N/A	54W	3369lm	63lm/W	11.5kg
FLRA/249T5/PC48	8750lm	N/A	106W	6440lm	61lm/W	11.5kg

## S12

Section 12 compliant versions available (IK8). For section 12 version with clear glass diffuser add suffix /S12C. For section 12 version with frosted glass diffuser add suffix /S12F.

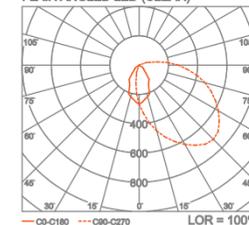


## FITTING OPTIONS

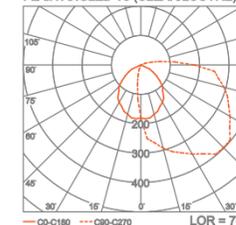
Pure white finish	replace C48 with C32
Opal diffuser (no louvre)	replace P with X
Section 12 clear glass (IK8)	replace P with S12C
Section 12 frosted glass (IK8)	replace P with S12F
Warm white LEDs (3000K)	replace NW with WW
Integral 3 hour duration emergency*	add suffix /EM3
Self test 3 hour duration emergency*	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
End entry(s)	add suffix /H or /HH

\*No emergency options available on all 2 foot (615mm) LED versions and the 4 foot (1215mm) 2x54W T5 version

### FLAIR ANGLED LED (CLEAR)



### FLAIR ANGLED T5 (CLEAR/LOUVRE)



# Flair High Bay



**FINISHES**

MATT SILVER  
C48

**LAMP OPTIONS**

CLEAR DIFFUSER

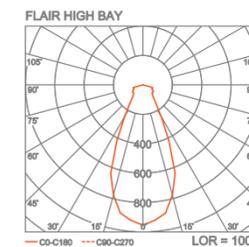
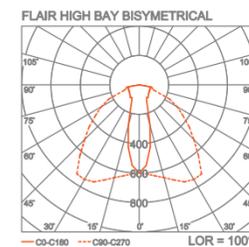
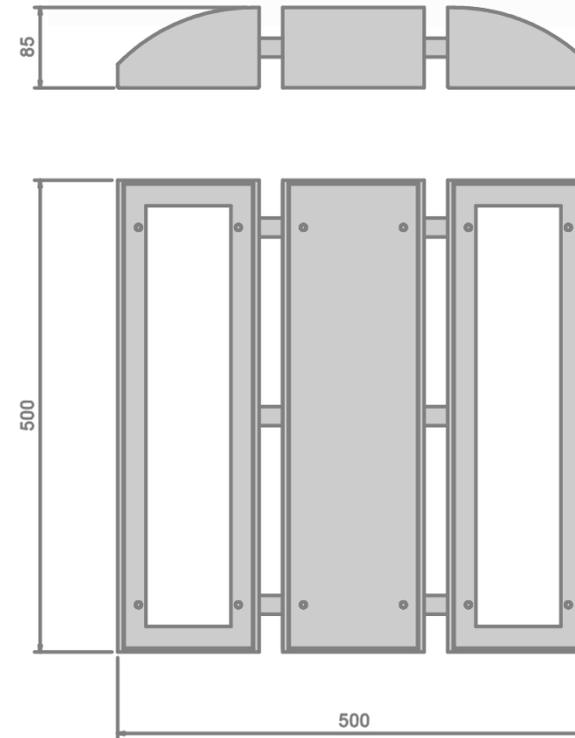
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
FHB/11000NW/C48	11000lm	4000K	101W	11396lm	113lm/W	15kg
FHB/13000NW/C48	13000lm	4000K	121W	13219lm	109lm/W	15kg
FHB/15000NW/C48	15000lm	4000K	143W	15194lm	106lm/W	15kg

**FITTING OPTIONS**

DALI dimming/monitoring	add suffix /DALI
For linear bisymmetrical distribution (only on 11000 / 13000lm options)	add suffix /OVL

Suspended architectural LED High Bay fitting for use in public spaces or train maintenance areas.

- Designed in accordance with fire precautions for subsurface rail stations (Section 12).
- Complies with London Underground subsurface standard 1-085 utilising low smoke, zero halogen cables and control gear.
- High output LED array (over 100 luminaire lumens per circuit watt) with efficient square symmetrical output.
- Zinc coated steel body finished in matt silver polyester powder coat.
- Toughened clear glass diffusers and control gear cover retained with lanyards for ease of maintenance.
- Toughened glass cover, polycarbonate optics, silicone gasket.
- Integral electronic control gear with fused terminal block housed in middle section for thermal separation.
- Standard drop length of 2 metres supplied with cable and suspensions.





# Gemco



Hard-wearing weather and vandal resistant rectangular fitting.

- Suitable for wall or ceiling mounting.
- Die cast aluminium body finished in black polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.
- Available with exit legends to ISO 7010.

**FINISHES**



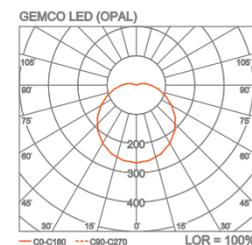
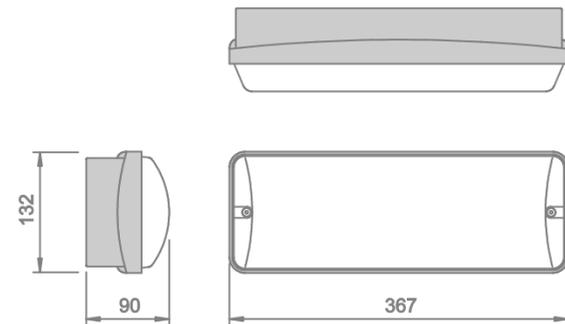
**LAMP OPTIONS**

OPAL DIFFUSER

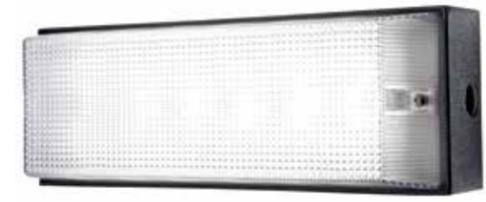
LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D200/1200NW/XW	1200lm	4000K	14W	1150lm	82lm/W	3kg
D200/1800NW/XW	1800lm	4000K	21W	1700lm	81lm/W	3kg
D200/2X2NV/XW	300lm	4000K	5W	300lm	60lm/W	3kg

**FITTING OPTIONS**

Textured black finish	replace W with B
Integral 3 hour duration emergency	add suffix /EM3
Non maintained 3 hour emergency	add suffix /NM3
Emergency exit legend - Arrow Down	add suffix /RMD
Emergency exit legend - Arrow Up	add suffix /RMU
Emergency exit legend - Arrow Left	add suffix /RML
Emergency exit legend - Arrow Right	add suffix /RMR
Photocell	add suffix /PEC
Side entry(s)	add suffix /H or /HH



# Gemini



Robust vandal and weather resistant rectangular bulkhead fitting.

- Suitable for wall or ceiling mounting.
- Zinc coated steel body finished in black polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.
- Available with exit legends to ISO 7010.

**FINISHES**



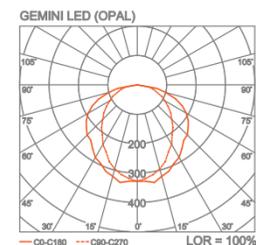
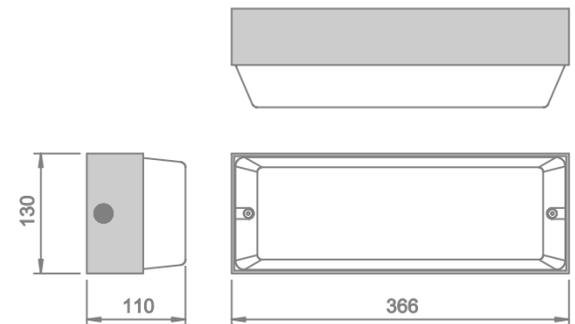
**LAMP OPTIONS**

OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D215/800NW/XB	800lm	4000K	9W	800lm	91lm/W	2.5kg
D215/1200NW/XB	1200lm	4000K	14W	1250lm	89lm/W	2.5kg
D215/1800NW/XB	1800lm	4000K	21W	1800lm	86lm/W	2.5kg

**FITTING OPTIONS**

Textured white finish	replace B with W
Integral 3 hour duration emergency	add suffix /EM3 (deeper body)
Emergency exit legend - Arrow Down	add suffix /RMD
Emergency exit legend - Arrow Up	add suffix /RMU
Emergency exit legend - Arrow Left	add suffix /RML
Emergency exit legend - Arrow Right	add suffix /RMR
Photocell	add suffix /PEC
Semi-recessed	add suffix /SR
Blank ends	add suffix /BE
IP65 upgrade (die cast aluminium body)	add suffix /IP65
Corridor function	add suffix /CF10





# Gemini Metro



## FINISHES

TEXTURED WHITE  
W

## LAMP OPTIONS

### GLASS DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
M1977/2X2NW/S12F	300lm	4000K	5W	300lm	60lm/W	3.5kg

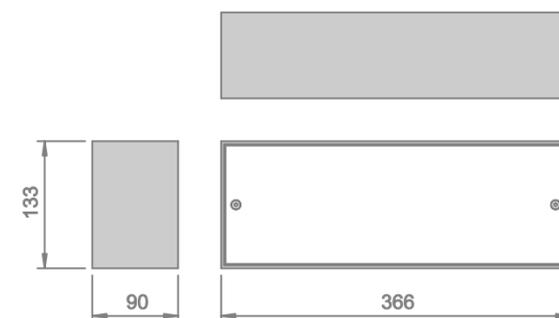
## FITTING OPTIONS

Integral 3 hour duration emergency	add suffix /EM3
Non maintained 3 hour emergency	add suffix /NM3
Emergency exit legend - Arrow Down	add suffix /RMD
Emergency exit legend - Arrow Up	add suffix /RMU
Emergency exit legend - Arrow Left	add suffix /RML
Emergency exit legend - Arrow Right	add suffix /RMR

\*Version for secure healthcare and anti-ligature available. Please contact technical sales on +44 (0)20 8254 2022.

Robust vandal and weather resistant fitting with emergency options.

- Designed in accordance with fire precautions for subsurface rail stations (Section 12).
- Complies with London Underground subsurface standard 1-085 utilising low smoke, zero halogen cables and control gear.
- Suitable for wall or ceiling mounting.
- Zinc coated steel body finished in white polyester powder coat.
- Frosted glass diffuser held against silicone gasket by socket cap stainless steel screws.
- Available with exit legends to ISO 7010.
- Options include emergency exit legend as well as integral maintained or non maintained emergency.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.

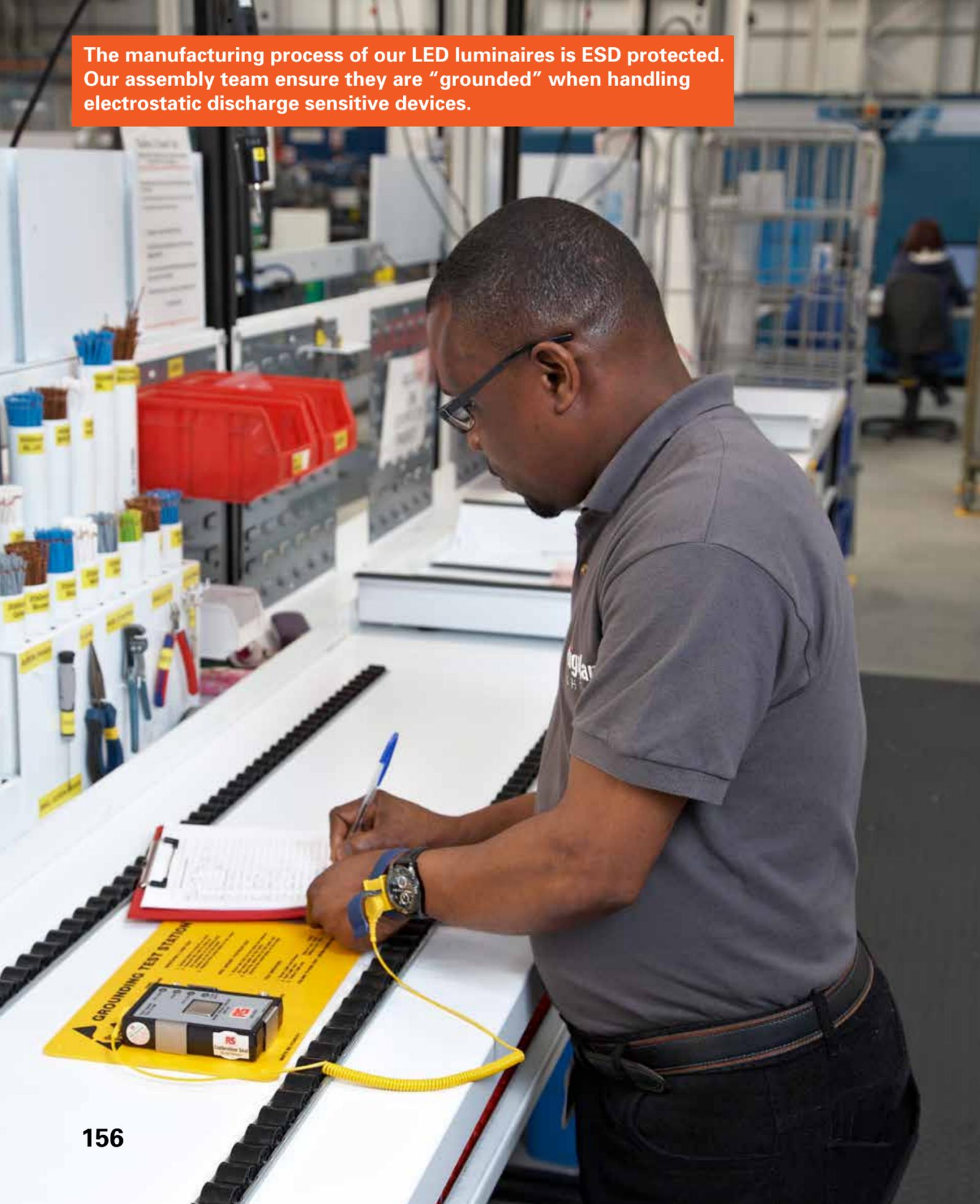


We design and manufacture bespoke products to suit specific sector applications. This production line was implemented specifically for the Crossrail PES light boxes - see pages 40 and 41.





The manufacturing process of our LED luminaires is ESD protected. Our assembly team ensure they are "grounded" when handling electrostatic discharge sensitive devices.



Slim vandal resistant linear fitting for indoor walkway applications.

# Inset

- Unobtrusive fitting for lighting of internal stairs, ramps and similar applications. Can also be used as under soffit or cove lighting.
- Varying outputs can be used for general illumination or accent lighting.
- Anodised aluminium body/heat sink, finished in matt silver or matt black polyester powder coat.
- Polycarbonate optic/diffuser, silicone gaskets.
- Stainless steel ends / fixing brackets.
- Remote electronic control gear.
- Various lengths, finishes, optics and outputs available.



Inset comes in a range of lengths, output levels, colours, diffusers and finishes.

Contact our technical sales team on +44 (0)20 8254 2022 to discuss your requirements.

#### FINISHES

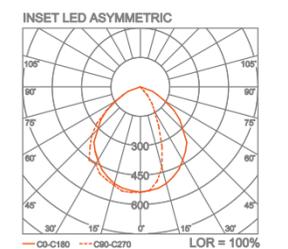
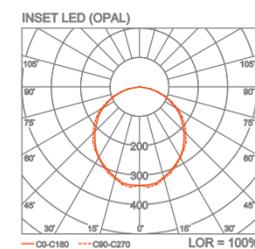
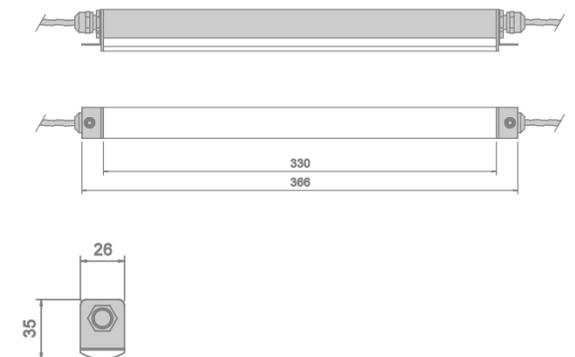


#### PART NUMBER KEY

CODE	STANDS FOR
INS	Inset
300	Length (e.g. 300mm)
L	Low: 100lm per 100mm (1.5W)
H	High: 200lm per 100mm (2.5W)
S	Symmetrical
A	Asymmetrical
NW	Natural white (4000K)
WW	Warm white (3000K)
F	Frosted
X	Opal
C04	Black
C48	Silver

#### DRIVERS

INS-DRV-10-24-IP	10W 24V constant voltage IP65 driver
INS-DRV-35-24-IP	35W 24V constant voltage IP67 driver
INS-DRV-60-24-IP	60W 24V constant voltage IP67 driver
INS-DRV-96-24-IP	96W 24V constant voltage IP67 driver
INS-DRV-180-24-IP	180W 24V constant voltage IP67 driver



# Maxi Callisto



Decorative vandal and weather resistant box fitting.

- Can be mounted to provide either upwards or downwards illumination.
- Suitable for interior or exterior use.
- Die cast aluminium body and hood finished in titanium polyester powder coat.
- Clear polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

#### FINISHES

TITANIUM C49	MATT BLACK C04	MATT SILVER C48
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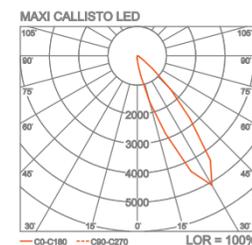
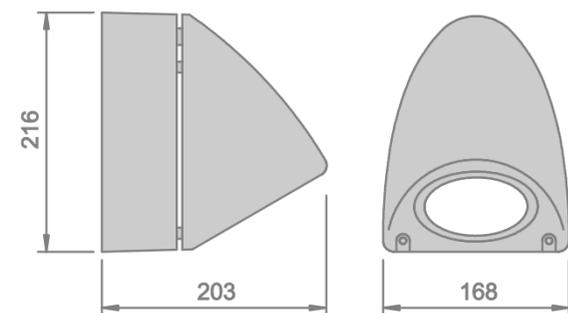
#### LAMP OPTIONS

CLEAR DIFFUSER

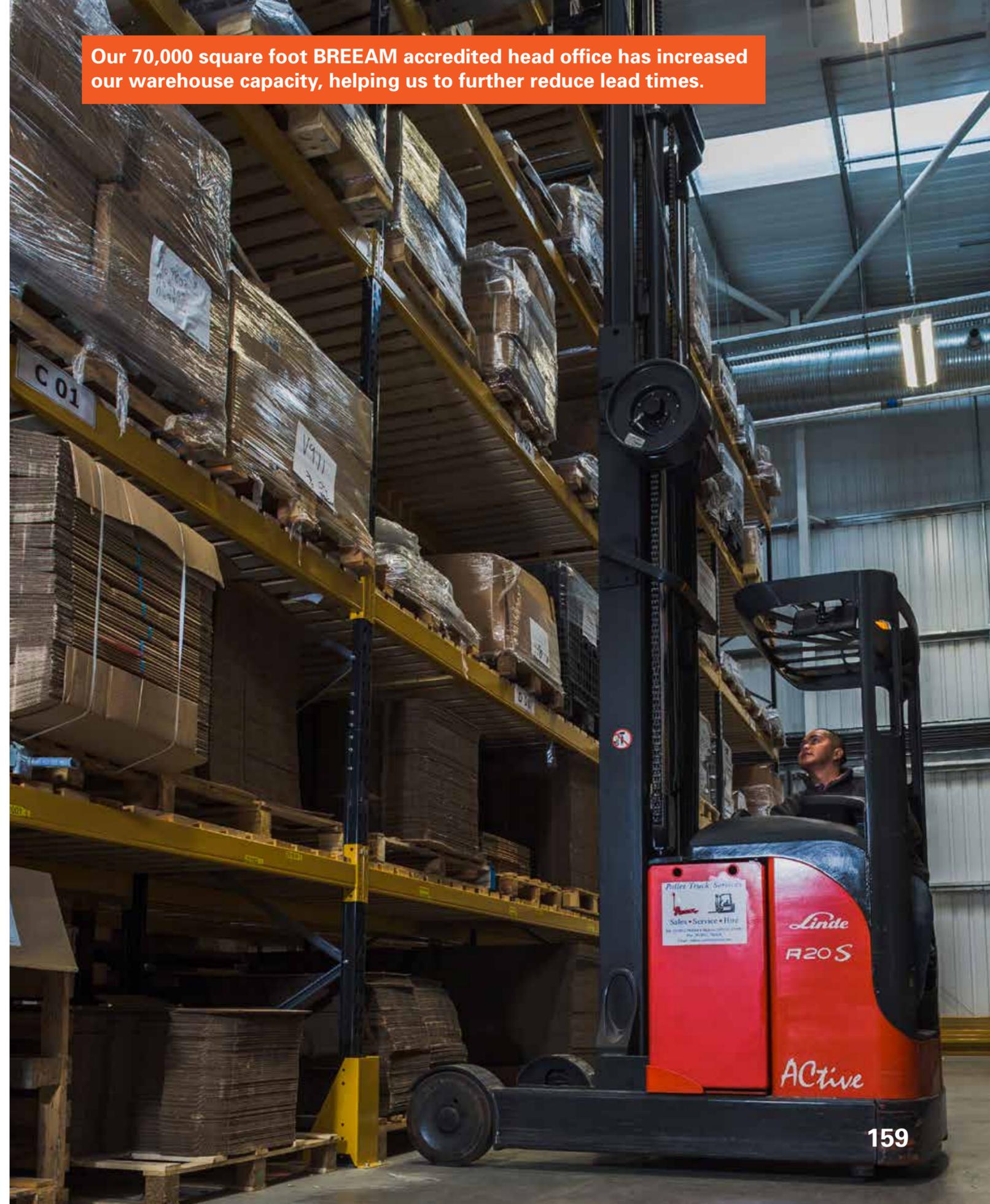
LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
XCAL/7X3MNV/C49	1200lm	4000K	18W	1092lm	62lm/W	4.5kg

#### FITTING OPTIONS

Matt black finish	replace C49 with C04
Matt silver finish	replace C49 with C48



Our 70,000 square foot BREEAM accredited head office has increased our warehouse capacity, helping us to further reduce lead times.





# Mission range

The Mission range is a family of robust linear luminaires for urban and transport applications, which also includes a bulkhead fitting.

Our Mission S12 luminaire complies with London Underground subsurface standard 1-085 (Section 12). It comes with a glass diffuser and incorporates low smoke and zero halogen cabling, to prevent air becoming toxic in the case of a fire.

A versatile cable management system designed specifically for rail is also available. Versatile mounting options include suspended or surface mounting. Other options include speakers, dummy bodies, infill panels, cameras, sensors, PA and CCTV.

For more information on which Mission luminaire is right for your application, please contact our customer service team on +44 (0)20 8254 2022.



# Mission

Versatile lighting for urban and transport applications.



- Ideal for rail applications, as well as car parks and urban areas.
- Suitable for ceiling, cornice or suspended mounting.
- Extruded aluminium body finished in matt silver polyester powder coat.
- Opal or prismatic polycarbonate diffuser held against silicone gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Cable management rear housing available.
- Provision for conduit entry in back, gaskets provided.

## FINISHES

MATT SILVER  
C48

PURE WHITE  
C32

## LAMP OPTIONS

### 703mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D599/2/1500NW/XC48	1500lm	4000K	15W	1296lm	86lm/W	6kg	HT50°
D599/2/2000NW/XC48	2000lm	4000K	18W	1729lm	96lm/W	6kg	HT50°
D599/2/2500NW/XC48	2500lm	4000K	22W	2161lm	98lm/W	6kg	HT50°
D599/2/3000NW/XC48	3000lm	4000K	26W	2593lm	100lm/W	6kg	HT50°

### LINEAR FLUORESCENT - PRISMATIC

D599/124T5/PC48	1750lm	N/A	25W	1432lm	57lm/W	6kg
D599/224T5/PC48	3500lm	N/A	48W	2863lm	60lm/W	6kg

### 1303mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D599/4/3000NW/XC48	3000lm	4000K	28W	2593lm	93lm/W	12kg	HT50°
D599/4/4000NW/XC48	4000lm	4000K	35W	3457lm	99lm/W	12kg	HT50°
D599/4/5000NW/XC48	5000lm	4000K	43W	4322lm	100lm/W	12kg	HT50°
D599/4/6000NW/XC48	6000lm	4000K	51W	5186lm	102lm/W	12kg	HT50°

### LINEAR FLUORESCENT - PRISMATIC

D599/128T5/PC48	2625lm	N/A	31W	2147lm	69lm/W	12kg
D599/135T5/PC48	3325lm	N/A	37W	2727lm	73lm/W	12kg
D599/154T5/PC48	4450lm	N/A	57W	3640lm	64lm/W	12kg
D599/228T5/PC48	5250lm	N/A	62W	4295lm	70lm/W	12kg
D599/254T5/PC48	8900lm	N/A	117W	7280lm	62lm/W	12kg

### 1603mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D599/5/3750NW/XC48	3750lm	4000K	35W	3241lm	93lm/W	15kg	HT50°
D599/5/5000NW/XC48	5000lm	4000K	44W	4322lm	98lm/W	15kg	HT50°
D599/5/6250NW/XC48	6250lm	4000K	54W	5402lm	100lm/W	15kg	HT50°
D599/5/7500NW/XC48	7500lm	4000K	63W	6482lm	101lm/W	15kg	HT50°

### LINEAR FLUORESCENT - PRISMATIC

D599/149T5/PC48	4375lm	N/A	54W	3579lm	67lm/W	15kg
D599/235T5/PC48	6650lm	N/A	74W	5440lm	74lm/W	15kg
D599/249T5/PC48	8750lm	N/A	106W	7158lm	68lm/W	15kg

HT

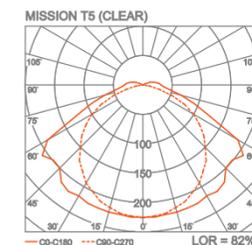
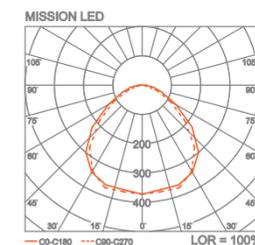
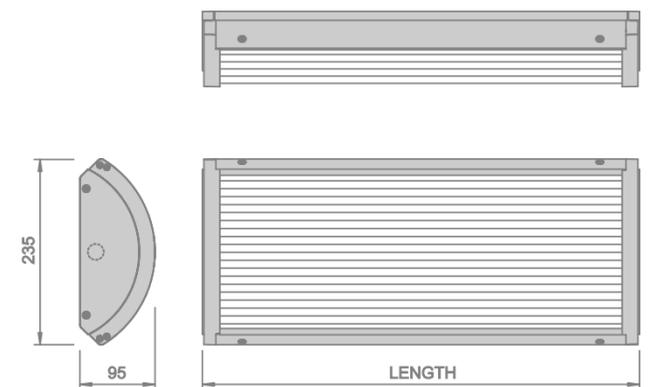
Applies to standard version. For any options (e.g. EM3) please check with technical sales.

## FITTING OPTIONS

Pure white finish	replace C48 with C32
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
End entry(s)	add suffix /H or /HH
Warm white LEDs (3000K)	replace NW with WW

\*Emergency options not available on 2x54W T5 version

\*\* EM3D is not available on the 703mm version



# Mission Bulkhead

Robust surface mounted weather and vandal resistant bulkhead fitting.



- Suitable for wall or ceiling mounting.
- Extruded aluminium body and die cast aluminium end caps finished in matt silver polyester powder coat.
- Opal polycarbonate diffuser held against silicone gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.



## FINISHES

MATT SILVER  
C48

PURE WHITE  
C32

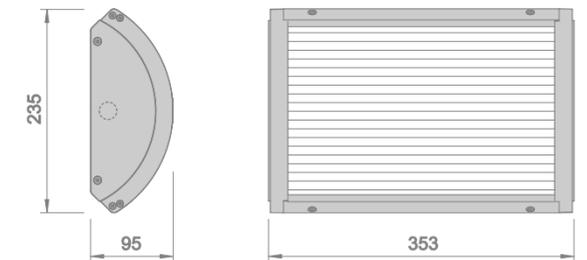
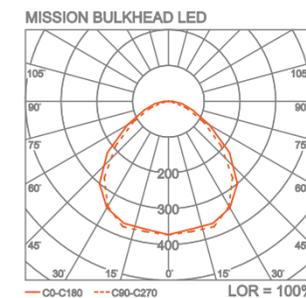
## LAMP OPTIONS

### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D599/1/1500NW/XC48	1500lm	4000K	13W	1296lm	99lm/W	4kg
D599/1/2500NW/XC48	2500lm	4000K	22W	2161lm	98lm/W	4kg

## FITTING OPTIONS

Pure white finish	replace C48 with C32
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Warm white LEDs (3000K)	replace NW with WW
End entry(s)	add suffix /H or /HH



Mission, shown here at Clapham Junction Rail Station, is a family of robust linear luminaires for urban and transport applications.



# Mission S12

Designed specifically for subsurface rail applications.



- Designed in accordance with fire precautions for subsurface rail stations (Section 12).
- Complies with London Underground subsurface standard 1-085 utilising low smoke, zero halogen cables and control gear.
- Suitable for surface mounting.
- Extruded aluminium body and die cast aluminium end caps finished in pure white or matt silver polyester powder coat.
- Toughened laminated glass diffuser held against silicone gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.



**FINISHES**



**LAMP OPTIONS**

GLASS DIFFUSER

**353mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D599/1/1500NW/C48/S12X	1500lm	4000K	13W	1215lm	93lm/W	4.5kg
D599/1/2500NW/C48/S12X	2500lm	4000K	22W	2025lm	92lm/W	4.5kg

**703mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D599/2/1500NW/C32/S12X	1500lm	4000K	15W	1215lm	81lm/W	7kg	HT50°
D599/2/2000NW/C32/S12X	2000lm	4000K	18W	1620lm	90lm/W	7kg	HT50°
D599/2/2500NW/C32/S12X	2500lm	4000K	22W	2025lm	92lm/W	7kg	HT50°
D599/2/3000NW/C32/S12X	3000lm	4000K	26W	2430lm	93lm/W	7kg	HT50°

**1303mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D599/4/3000NW/C32/S12X	3000lm	4000K	28W	2430lm	87lm/W	14kg	HT50°
D599/4/4000NW/C32/S12X	4000lm	4000K	35W	3240lm	93lm/W	14kg	HT50°
D599/4/5000NW/C32/S12X	5000lm	4000K	43W	4050lm	94lm/W	14kg	HT50°
D599/4/6000NW/C32/S12X	6000lm	4000K	51W	4860lm	95lm/W	14kg	HT50°

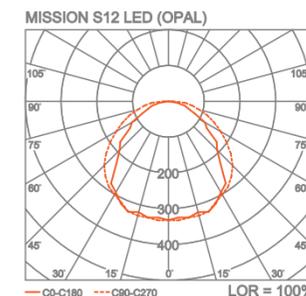
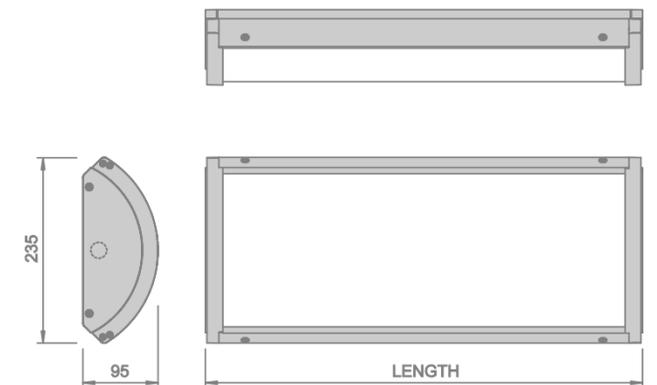
**1603mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D599/5/3750NW/C32/S12X	3750lm	4000K	35W	3038lm	87lm/W	17.5kg	HT50°
D599/5/5000NW/C32/S12X	5000lm	4000K	44W	4050lm	92lm/W	17.5kg	HT50°
D599/5/6250NW/C32/S12X	6250lm	4000K	54W	5063lm	94lm/W	17.5kg	HT50°
D599/5/7500NW/C32/S12X	7500lm	4000K	63W	6075lm	96lm/W	17.5kg	HT50°

**FITTING OPTIONS**

Matt silver finish	replace C32 with C48
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Warm white LEDs (3000K)	replace NW with WW

\* EM3D is not available on the 353mm or 703mm versions





# Mission CMS

Versatile cable management system designed specifically for rail.

- Ideal for platform applications where vandalism or particulate ingress is a concern.
- LED and linear fluorescent options.
- Versatile mounting options including suspended or surface mounting.
- Other options include speakers, dummy bodies, infill panels, cameras, sensors, PA and CCTV.
- Each application is unique and will be catered to your requirements. For further information contact our technical sales office on +44 (0)20 8254 2022.



## MISSION CMS SECTIONS CONNECTED INCLUDING CAMERA AND BLANKING PANEL



**SPEAKER DETAIL**



**SAFETY LANYARD DETAIL**



**CAMERA DETAIL**



**T-SLOT DETAIL**



**CABLE RUN DETAIL**



**SECTION JOIN DETAIL**

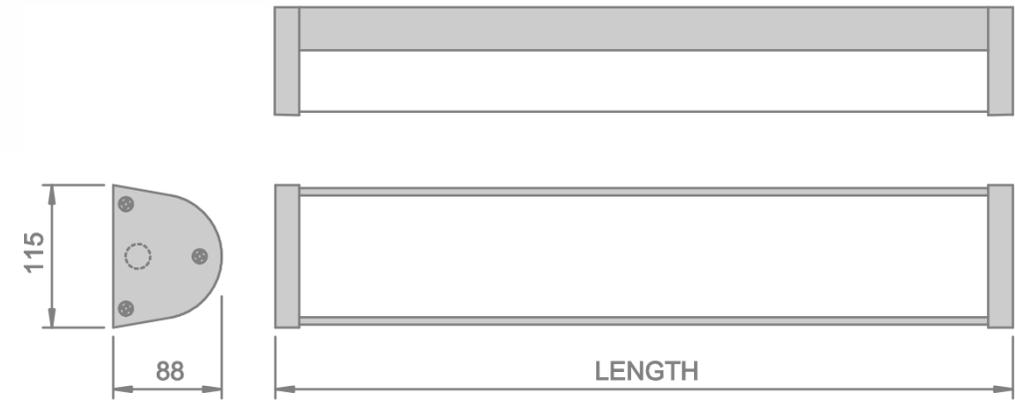


# Monitor



Very strong ceiling mounted vandal and weather resistant linear fitting.

- Vandal resistant control lens provides excellent light distribution.
- Extruded aluminium body finished in black polyester powder coat.
- Opal or prismatic polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.



## FINISHES

<b>TEXTURED BLACK</b> B	<b>TEXTURED WHITE</b> W	<b>MATT SILVER</b> C48
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## LAMP OPTIONS

### 640mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D855/2/1500NW/XB	1500lm	4000K	15W	1450lm	99lm/W	3kg
D855/2/2000NW/XB	2000lm	4000K	18W	1812lm	100lm/W	3kg
D855/2/2500NW/XB	2500lm	4000K	22W	2175lm	99lm/W	3kg

### LINEAR FLUORESCENT - PRISMATIC

D855/124T5/PB	1750lm	N/A	25W	1645lm	66lm/W	3kg
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### 1240mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D855/4/2000NW/XB	2000lm	4000K	21W	2202lm	105lm/W	5kg
D855/4/3000NW/XB	3000lm	4000K	28W	2936lm	105lm/W	5kg
D855/4/4000NW/XB	4000lm	4000K	35W	3670lm	105lm/W	5kg
D855/4/5000NW/XB	5000lm	4000K	43W	4404lm	102lm/W	5kg
D855/4/6000NW/XB	6000lm	4000K	51W	5138lm	101lm/W	5kg

### LINEAR FLUORESCENT - PRISMATIC

D855/128T5/PB	2625lm	N/A	31W	2468lm	80lm/W	5kg
D855/228T5/PB	5250lm	N/A	62W	4463lm	72lm/W	5kg
D855/154T5/PB	4450lm	N/A	57W	4183lm	73lm/W	5kg

### 1540mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D855/5/2500NW/XB	2500lm	4000K	27W	2753lm	102lm/W	7.5kg
D855/5/3750NW/XB	3750lm	4000K	35W	3670lm	105lm/W	7.5kg
D855/5/5000NW/XB	5000lm	4000K	44W	4588lm	104lm/W	7.5kg
D855/5/6250NW/XB	6250lm	4000K	54W	5505lm	102lm/W	7.5kg
D855/5/7500NW/XB	7500lm	4000K	63W	6413lm	102lm/W	7.5kg

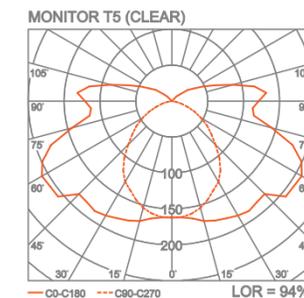
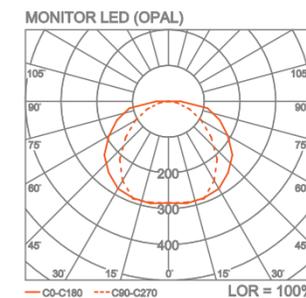
### LINEAR FLUORESCENT - PRISMATIC

D855/135T5/PB	3325lm	N/A	37W	3126lm	84lm/W	7.5kg
D855/235T5/PB	6650lm	N/A	74W	5653lm	76lm/W	7.5kg
D855/149T5/PB	4375lm	N/A	54W	4113lm	77lm/W	7.5kg
D855/249T5/PB	8750lm	N/A	106W	7438lm	70lm/W	7.5kg

## FITTING OPTIONS

Textured white finish	replace B with W
Matt silver finish	replace B with C48
Integral 3 hour duration emergency*	add suffix /EM3
Self test 3 hour duration emergency*	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Single end entry	add suffix /H
Warm white LEDs (3000K)	replace NW with WW

\*No emergency options available on all 2 foot (640mm) versions





# Monitor II

Very strong ceiling mounted vandal resistant linear fitting for custodial cell areas.

- Suitable for ceiling mounting.
- Zinc coated steel finished in chemical and abrasion resistant textured white polyester powder coat.
- Extruded opal reeded polycarbonate diffuser slid from body after removal of end cap.
- End cap held by tamper proof stainless steel screws.
- Electronic control gear on removable tray with fused plug and socket connector block.
- Night light facility on separate 240 volt circuit.
- Provision for conduit entry in back.

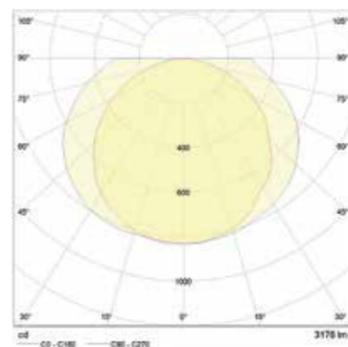
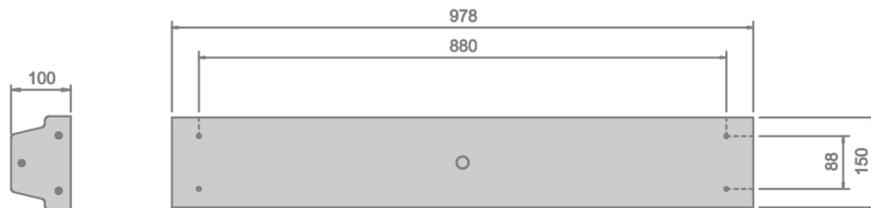


## FINISHES

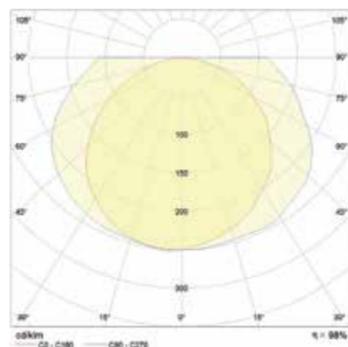
### TEXTURED WHITE W

#### Lamp Options

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D884/3/3000WW/NL	3000lm	3000K	29W	3176lm	110lm/W	9.5 kg
D884/3/4000WW/NL	4000lm	3000K	40W	4216lm	105lm/W	9.5 kg
T5 - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D884/139121T5L/NL	5600lm	3000K	61W	3152lm	52lm/W	9.5 kg
D884/239T5L/NL	7000lm	3000K	70W	3682lm	53lm/W	9.5 kg



LED polar curve



T5 polar curve (D884/239T5L/NL)



# Monitor II *Retro*

Replacement LED gear tray for Monitor II which is quick and easy to install.

- Improved luminous efficacy.
- Quick and simple to install (see below).
- Significant reduction in maintenance costs.
- BS EN 60598-1 compliant.
- 5 year warranty on LED board and driver providing peace of mind from the original equipment manufacturer.



To minimise any issues with glare and to maximise performance, we recommend installing an opal diffuser with the **Monitor II Retro** replacement gear tray.

#### LAMP OPTIONS

LED - GEAR TRAY	Rating	Temp	Load	Lum/lms	Efficacy
RGTD884/3/3000WW/NL	3000lm	3000K	29W	3176lm	110lm/W
RGTD884/3/4000WW/NL	4000lm	3000K	40W	4216lm	105lm/W

Figures based on installation with opal diffuser

#### NEW OPAL DIFFUSER

SPR/D00230

Installing could not be easier. Just use the guide below.



1. Isolate the fitting, unscrew the end cap, slide out and remove the diffuser. The fluorescent gear tray will then be exposed (see picture).



2. Remove fluorescent lamps and unscrew the fluorescent lamp gear tray. Unplug the slip plug\* (see picture).



3. Reverse step 2 to connect the new **Monitor II Retro** LED gear tray via its slip plug\*\* (see picture).

\* Versions of the slip plug vary depending on the age of the fitting

\*\* Some mains connections may need adjustment (body bracket supplied)



4. Replace the diffuser and screw on the end cap. You are now the proud owner of a **Monitor II** energy saving luminaire!

# Pantheon



Elegant vandal and weather resistant fitting for building perimeters.

- Aluminium reflector and control lens provide efficient, even distribution of light.
- Die cast aluminium body finished in matt black polyester powder coat.
- Polycarbonate diffuser held against gasket by hinged overhead catch.
- Electronic control gear on removable tray with fused connector block.
- Provision for conduit entry in back, gaskets provided.

## FINISHES

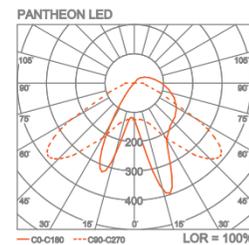
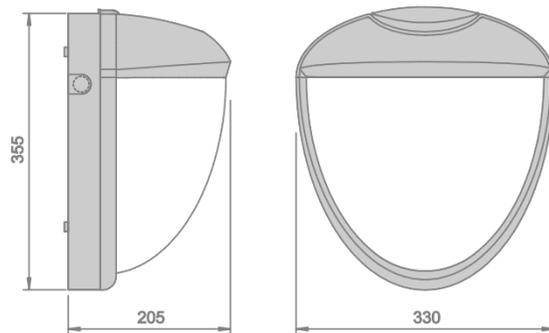


## LAMP OPTIONS

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D277/1100NW/XC04	1100lm	4000K	10W	850lm	85lm/W	4kg
D277/2000NW/XC04	2000lm	4000K	19W	1550lm	82lm/W	4kg
D277/3000NW/XC04	3000lm	4000K	29W	2225lm	80lm/W	4kg

## FITTING OPTIONS

Titanium finish	replace C04 with C49
Integral 3 hour duration emergency	add suffix /EM3
Photocell	add suffix /PEC
Side entry	add suffix /HH
Security screw	add suffix /SAH
Warm white LEDs (3000K)	replace NW with WW

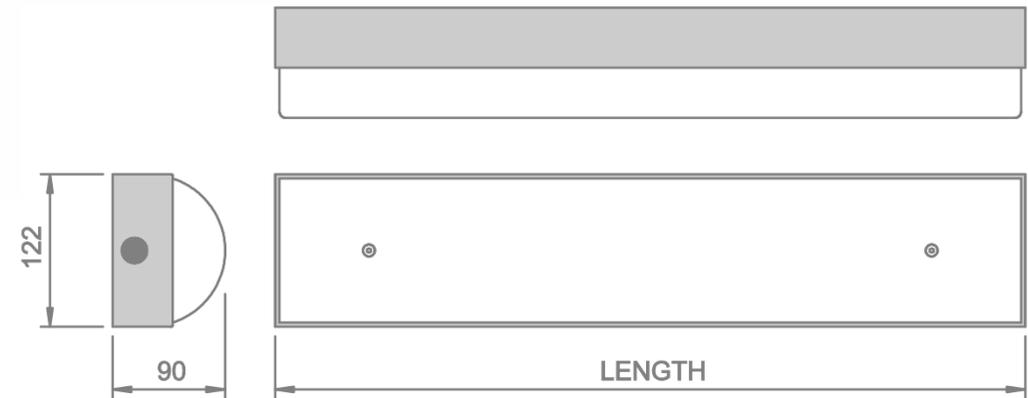


# Parkalux



Versatile vandal and weather resistant linear fitting.

- Suitable for ceiling and semi recessed mounting.
- Zinc-coated steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.



## FINISHES



## LAMP OPTIONS

### 1245mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D333/4/2000NW/XB	2000lm	4000K	21W	2167lm	103lm/W	5kg	HT50°
D333/4/3000NW/XB	3000lm	4000K	28W	2866lm	103lm/W	5kg	HT50°
D333/4/4000NW/XB	4000lm	4000K	35W	3478lm	99lm/W	5kg	HT50°
D333/4/5000NW/XB	5000lm	4000K	43W	4217lm	99lm/W	5kg	HT50°
D333/4/6000NW/XB	6000lm	4000K	51W	4725lm	94lm/W	5kg	HT50°

### LINEAR FLUORESCENT - PATTERNED

D333/4/228T5/PB	5250lm	N/A	62W	3591lm	58lm/W	5kg
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### 1560mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D333/5/2500NW/XB	2500lm	4000K	27W	2709lm	100lm/W	6kg
D333/5/3750NW/XB	3750lm	4000K	35W	3583lm	102lm/W	6kg
D333/5/5000NW/XB	5000lm	4000K	44W	4348lm	99lm/W	6kg
D333/5/6250NW/XB	6250lm	4000K	54W	5271lm	98lm/W	6kg
D333/5/7500NW/XB	7500lm	4000K	63W	5906lm	95lm/W	6kg

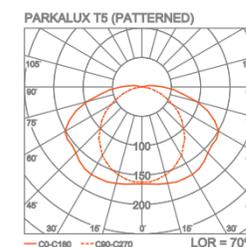
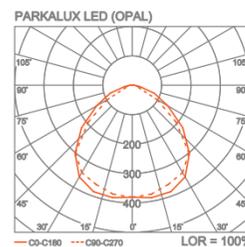
### LINEAR FLUORESCENT - PATTERNED

D333/5/235T5/PB	6650lm	N/A	74W	4549lm	61lm/W	6kg
D333/5/249T5/PB	8750lm	N/A	106W	5985lm	57lm/W	6kg

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Semi-recessed	add suffix /SR
Blank ends	add suffix /BE
For Network Rail specification	add suffix /NET
Warm white LEDs (3000K)	contact technical sales
Corridor function*	add suffix /CF10

\*CF10 option available on LED only



*"very tough"*  
Lux Magazine, June 2015

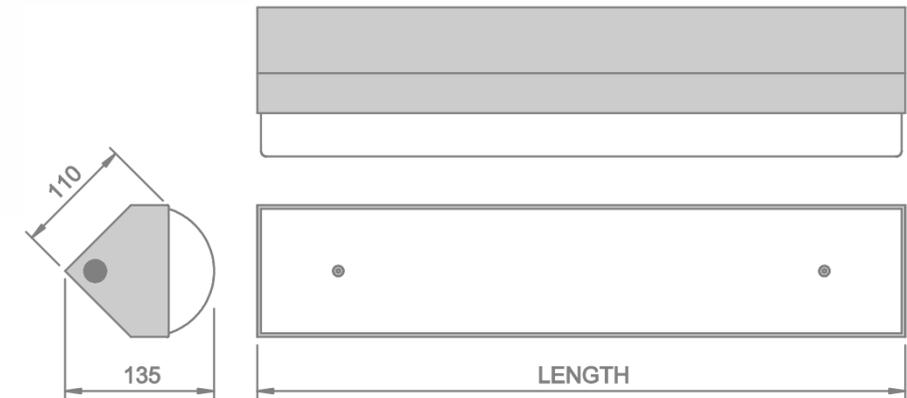
HT Applies to standard version. For any options (e.g. EM3) please check with technical sales.

# Parkalux Angled

Hard-wearing angled vandal and weather resistant linear fitting.



- Suitable for wall or cornice mounting.
- Zinc-coated steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.



## FINISHES



## LAMP OPTIONS

### 1245mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D323/4/2000NW/XB	2000lm	4000K	21W	2167lm	103lm/W	5kg
D323/4/3000NW/XB	3000lm	4000K	28W	2866lm	103lm/W	5kg
D323/4/4000NW/XB	4000lm	4000K	35W	3478lm	99lm/W	5kg
D323/4/5000NW/XB	5000lm	4000K	43W	4217lm	99lm/W	5kg
D323/4/6000NW/XB	6000lm	4000K	51W	4725lm	94lm/W	5kg

### LINEAR FLUORESCENT - PATTERNED

D323/4/228T5/PB	5250lm	N/A	62W	3591lm	58lm/W	5kg
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### 1560mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D323/5/2500NW/XB	2500lm	4000K	27W	2709lm	100lm/W	5kg
D323/5/3750NW/XB	3750lm	4000K	35W	3583lm	102lm/W	6kg
D323/5/5000NW/XB	5000lm	4000K	44W	4348lm	99lm/W	6kg
D323/5/6250NW/XB	6250lm	4000K	54W	5271lm	98lm/W	6kg
D323/5/7500NW/XB	7500lm	4000K	63W	5906lm	95lm/W	6kg

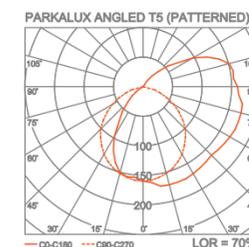
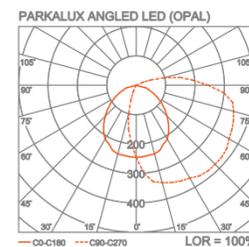
### LINEAR FLUORESCENT - PATTERNED

D323/5/235T5/PB	6650lm	N/A	74W	4549lm	61lm/W	6kg
D323/5/249T5/PB	8750lm	N/A	106W	5985lm	57lm/W	6kg

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Blank ends	add suffix /BE
For Network Rail specification	add suffix /NET
Warm white LEDs (3000K)	replace NW with WW
Corridor function*	add suffix /CF10

\*CF10 option available on LED only



# Quad range

The Quadrant is one of our best known fittings for a variety of applications, and the larger Quad range builds upon its success.

At its simplest, the Quad range is a group of bulkhead fittings each specialised for a specific purpose or feature set. There are anti-ligature Quads for custodial and healthcare environments, rugged, utilitarian Quads for long lasting, economical lighting in areas prone to vandalism, and more decorative Quads to blend in with refined surroundings.

We extended our Quad range by introducing **QuadEvo** a contemporary, robust bulkhead fitting with uniform light distribution of 104 luminaire lumens per circuit watt. LED only, **QuadEvo** uses significantly less electricity than traditional fluorescent fittings potentially reducing your annual energy costs by up to 60%.

Existing fluorescent Quadrant installations can also benefit from the energy savings achieved by LED thanks to our core design philosophy of using removable gear trays. Our **QuadRetro** service pack enables you to upgrade your existing Quadrant 2D luminaire to an LED version in less than 90 seconds.

There's a Quad family fitting for every application and taste. For more advice please contact our customer service team on +44 (0)20 8254 2020.



# QuadEvo



Contemporary, robust bulkhead fitting - the evolution of our Quadrant range.

- Attractive LED only fitting with uniform light distribution and 104 luminaire lumens per circuit watt.
- Circa 85% efficacy increase and 60% load reduction versus equivalent 28W 2D fitting, providing increased illumination for less energy.
- Suitable for wall and ceiling mounting.
- Die cast aluminium body finished in titanium polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamper proof Resistorx screws.
- Electronic control gear on removable tray with fused plug and socket connector block.
- Provision for conduit entry in back and options for side cable entry.
- 5 year warranty (full product).



Reduce your ownership and operating costs

**QuadEvo's** impressive light output of 104 lm/W ensures that you need fewer luminaires for a range of social housing applications, reducing your total cost of ownership (TCO).

On stairwell applications, for example, **QuadEvo's** optimum performance reduces the number of fittings required. To achieve 100 lux on horizontal stairtreads, the number of fittings required is reduced by 50% (see pictures below).



2D Lamp



QuadEvo

*"the toughest of the lot"*  
Lux Magazine, May 2015



## FINISHES



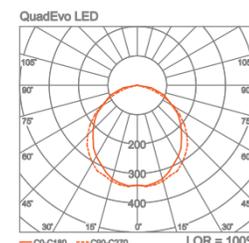
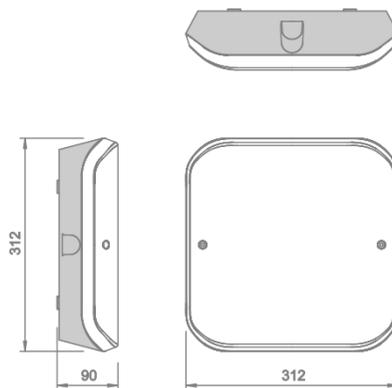
## LAMP OPTIONS

### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight	HT
QTR/1400NW/XC49	1400lm	4000K	11.5W	1194lm	104lm/W	3kg	HT50°
QTR/1900NW/XC49	1900lm	4000K	16.5W	1650lm	100lm/W	3kg	HT50°
QTR/2600NW/XC49	2600lm	4000K	23.5W	2201lm	94lm/W	3kg	HT50°

## FITTING OPTIONS

Matt black finish	replace C49 with C04
Matt white finish	replace C49 with C46
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Photocell	add suffix /PEC
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix /MWSB
Side entry(s)	add suffix /H or /HH
Warm white LEDs (3000K)	replace NW with WW
Corridor function	add suffix /CF10



HT

Applies to standard version. For any options (e.g. EM3) please check with technical sales.

# Quadrant



Vandal and weather resistant bulkhead fitting for wall or ceiling mounting.

- Widely specified for external social housing applications.
- Zinc coated steel body finished in black polyester powder coat.
- Opal or clear prismatic polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.

#### LAMP OPTIONS

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
DQ/800NW/XB	800lm	4000K	8W	800lm	100lm/W	3kg
DQ/1100NW/XB	1100lm	4000K	10W	1050lm	105lm/W	3kg
DQ/1400NW/XB	1400lm	4000K	15W	1500lm	97lm/W	3kg
DQ/1900NW/XB	1900lm	4000K	22W	2000lm	91lm/W	3kg
COMPACT FLUORESCENT - PRISMATIC						
DQ/162DLHF/PB	1050lm	3500K	18W	784lm	45lm/W	3kg
DQ/282DLHF/PB	2050lm	3500K	29W	1531lm	54lm/W	3kg
DQ/382DLHF/PB	2350lm	3500K	32W	1755lm	54lm/W	3kg

#### FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Opal diffuser (for fluorescent option)	replace P with X
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
Section 12 version available	see below for part numbers
DALI dimming/monitoring (as standard on S12)	add suffix /DALI
Switch dimming	add suffix /DIM
Photocell	add suffix /PEC
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix /MWSB
Semi-recessed (not available in IP65 upgrade)	add suffix /SR
Blank ends	add suffix /BE
IP65 upgrade (die cast aluminium body)	add suffix /IP65
Corridor function (LED only)	add suffix /CF10

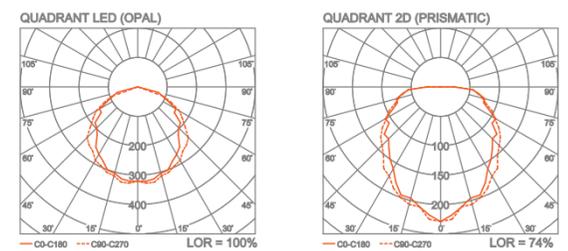
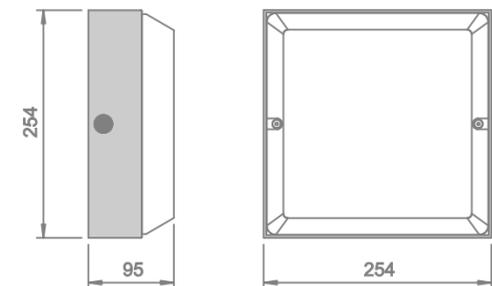
Dimming not available on 16W or 38W 2D

**S12** S12 version is LED only, with borosilicate glass diffuser (IK8) and DALI driver as standard. Contact technical sales for efficacy figures. Part numbers as follows:

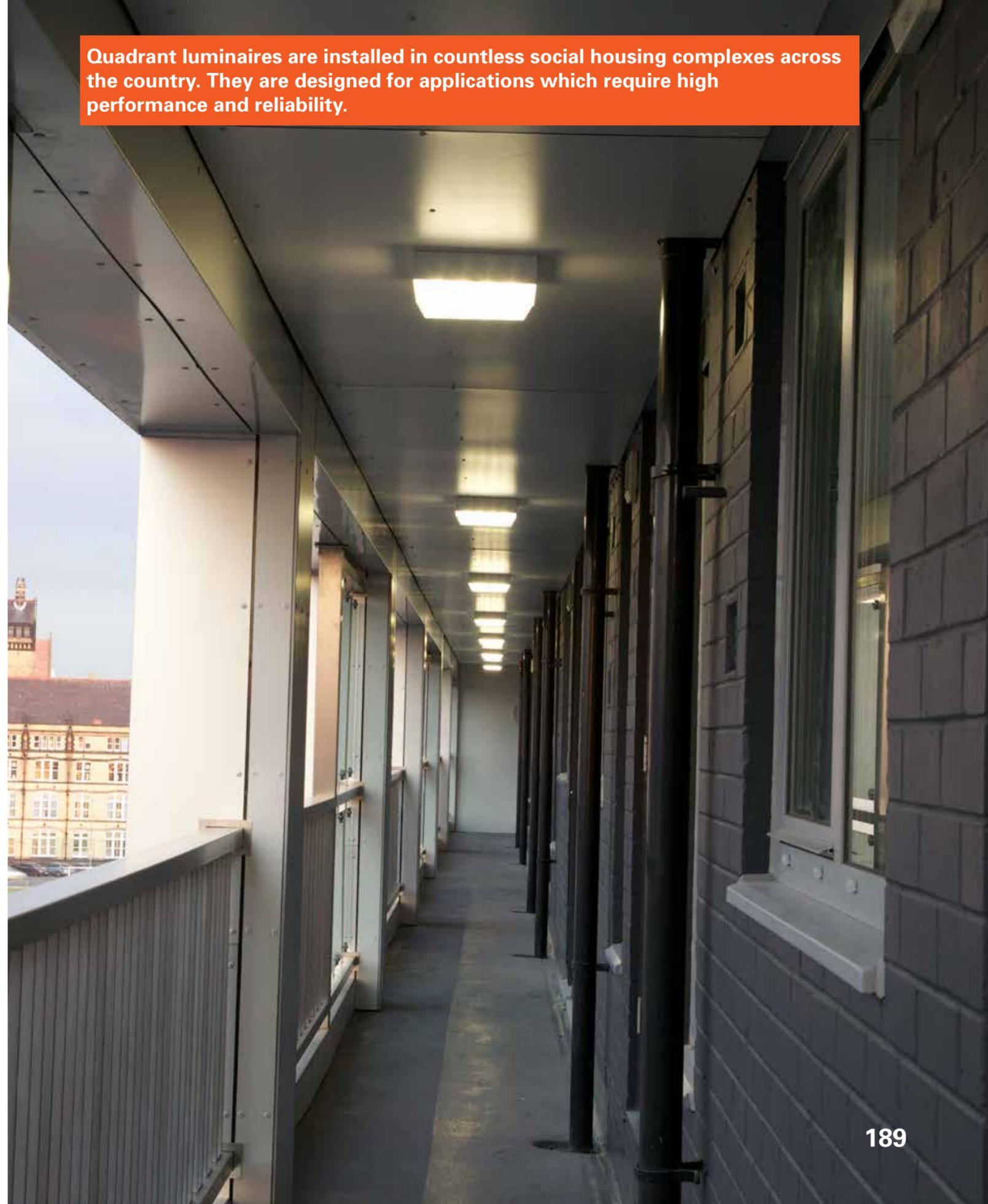
DQ/800NW/B/S12X/DALI	DQ/1100NW/B/S12X/DALI
DQ/1400NW/B/S12X/DALI	DQ/1900NW/B/S12X/DALI

*"best overall"*  
Lux Magazine, June 2013

#### FINISHES



Quadrant luminaires are installed in countless social housing complexes across the country. They are designed for applications which require high performance and reliability.





Our **QuadRetro** service pack enables you to upgrade your existing Quadrant 2D luminaire to an LED version in a matter of minutes. The result is a lower total cost of ownership (TCO) achieved through reduced power consumption and less frequent lamp replacements and general maintenance.

## Reduce your ownership costs\*

**60% reduction in energy**

**30% reduction in maintenance**

\* Cost of ownership of a 1400lm **QuadRetro** service pack and a standard 2D lamp (28W) over a 5 year period.

### TECHNICAL INFORMATION

**Operational life:** LED gear tray: 50,000 hours. 2D 28W lamp: 10,000 hours. **Total circuit watts: QuadRetro:**15W. 2D fitting: 38W (28W lamp).

### PRODUCT COSTS

**QuadRetro**(1400 lm): £60\*. 2D 28W lamp: Cost £6\*.  
\* Prices correct at May 2016 (average cost for 2D 28W lamp).

### ELECTRICITY COSTS

Assumed cost per unit £0.12p (May 2016).

### ASSUMPTIONS

**Average daily use:** 11 hours (14 hours in autumn/winter and 8 hours in spring/summer). **5 year operation:** 20,075 hours (11 hours x 365 days x 5 years). **Maintenance call outs:** Cost to replace a light fitting (lamp not included) = £37. Source: Which: 20 July 2012  
<http://local.which.co.uk/advice/cost-price-information-electricians>

### CALCULATIONS

**Maintenance: QuadRetro:** 1 x gear tray, 0 replacements, 0 maintenance call outs.  
2D 28W lamp: 2 replacements, 2 maintenance call outs.  
**Energy:** Total circuit watts x operation hours x energy cost / 1000 = 5 year running cost.



Service pack enabling you to upgrade your existing Quadrant 2D luminaire to an energy saving LED version in under 90 seconds.

# QuadRetro

- Replacement gear tray reducing the energy use of existing Quadrant installations.
- Improved luminous efficacy.
- Significant reduction to maintenance.
- Quick and simple to install (see below).
- BS EN 60598-1 compliant.

### LAMP OPTIONS

#### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	To Replace
RGT/DQ/800NW/X	800lm	4000K	8W	800lm	100lm/W	16W 2D
RGT/DQ/1100NW/X	1100lm	4000K	10W	1050lm	105lm/W	21W 2D
RGT/DQ/1400NW/X	1400lm	4000K	15W	1500lm	97lm/W	28W 2D
RGT/DQ/1900NW/X	1900lm	4000K	22W	2000lm	91lm/W	38W 2D

### EMERGENCY LAMP OPTIONS

#### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	To Replace
RGT/DQ/800NW/X/EM3	800lm	4000K	13W	800lm	62lm/W	16W 2D
RGT/DQ/1100NW/X/EM3	1100lm	4000K	16W	1050lm	66lm/W	21W 2D
RGT/DQ/1400NW/X/EM3	1400lm	4000K	20W	1500lm	75lm/W	28W 2D
RGT/DQ/1900NW/X/EM3	1900lm	4000K	27W	2000lm	74lm/W	38W 2D

### What's in the QuadRetro box?

- Opal diffuser.
- LED gear tray.
- Fixing screws.
- Instruction sheet.
- Peace of mind!



### Upgrade to QuadRetro in under 90 seconds

For polar curve, dimensions of the converted product and fitting options please refer to the Quadrant fitting on page 188.

Retrofitting couldn't be easier. The **QuadRetro** LED service pack can be installed following the simple instructions below.



1. Isolate fitting and unscrew diffuser.



2. Remove diffuser.



3. Remove lamp.



4. Unscrew gear tray.



5. Unplug slip-plug and remove gear tray.



6. Connect new gear tray to slip plug.



7. Screw in gear tray.



8. Screw on new diffuser.

# Wall Mount Quad

Surface weather and vandal resistant fitting ideal for exterior applications.



- Suitable for wall mounting.
- Zinc coated steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.

There's a Quad family fitting for most applications. For advice or more information please contact our customer service team on +44 (0)20 8254 2020.

## FINISHES

TEXTURED BLACK  
B

TITANIUM  
C49

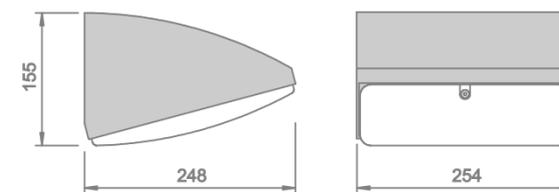
TEXTURED WHITE  
W

## LAMP OPTIONS

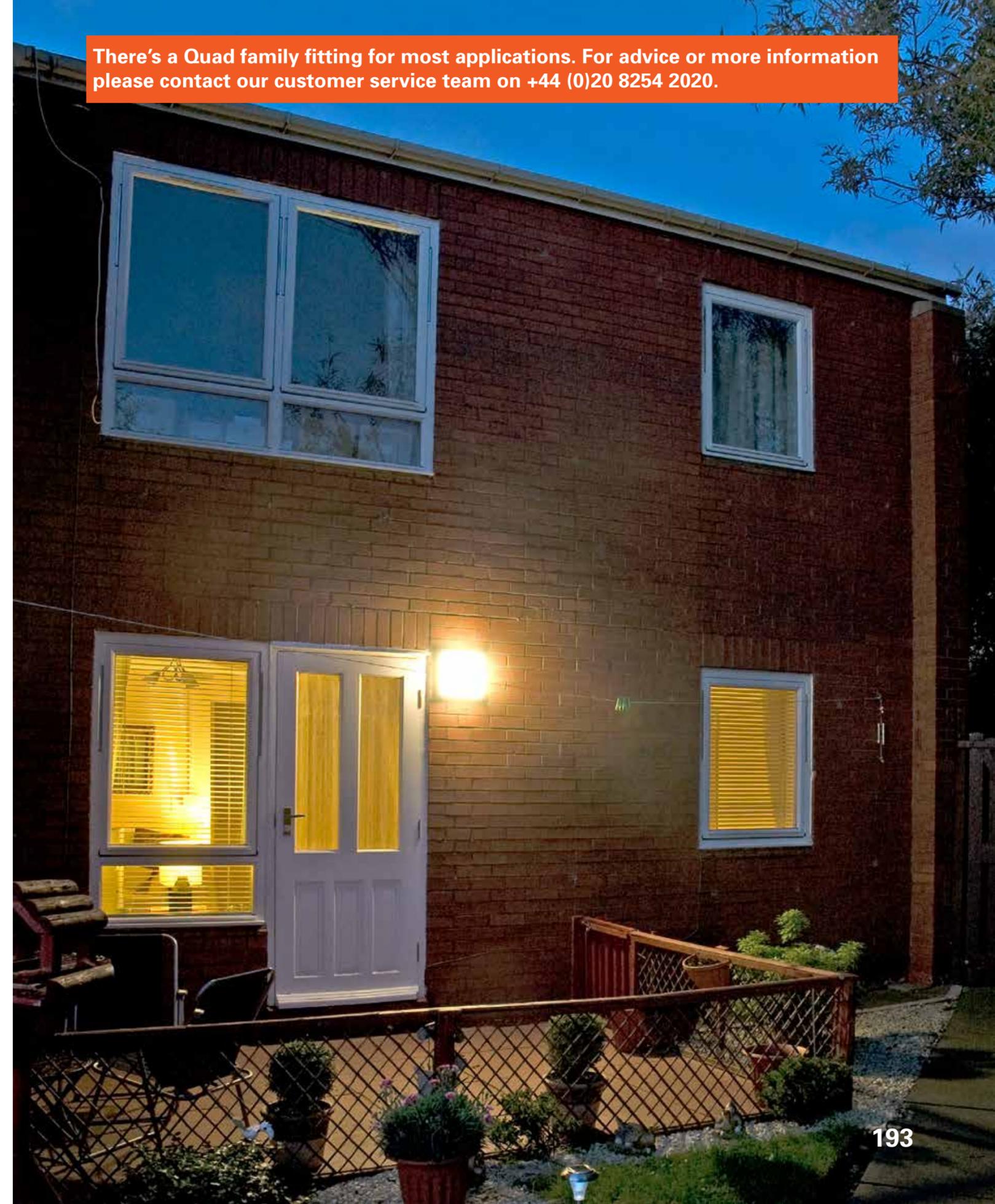
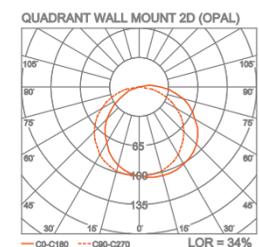
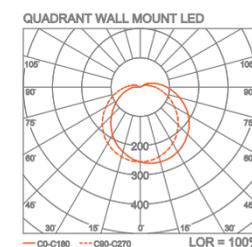
LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
WMQ/800NW/XB	800lm	4000K	8W	725lm	94lm/W	3.5kg
WMQ/1100NW/XB	1100lm	4000K	11W	1000lm	92lm/W	3.5kg
WMQ/1400NW/XB	1400lm	4000K	15W	1350lm	89lm/W	3.5kg
WMQ/1900NW/XB	1900lm	4000K	22W	1800lm	83lm/W	3.5kg
COMPACT FLUORESCENT - PRISMATIC						
WMQ/162DLHF/PB	1050lm	3500K	18W	784lm	45lm/W	3.5kg
WMQ/282DLHF/PB	2050lm	3500K	29W	1531lm	54lm/W	3.5kg
WMQ/382DLHF/PB	2350lm	3500K	32W	1755lm	54lm/W	3.5kg

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Opal diffuser	replace P with X
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Photocell	add suffix /PEC
Blank ends	add suffix /BE
Corner mounting bracket	add suffix /CRN
IP65 upgrade	add suffix /IP65



Corridor function\* add suffix /CF10  
 Dimming not available on 16W or 38W 2D  
 \*CF10 option available on LED only





Vandal and weather resistant angled fitting for wall mounting.

# Quadrangle

- Zinc coated steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against a gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.



#### FINISHES

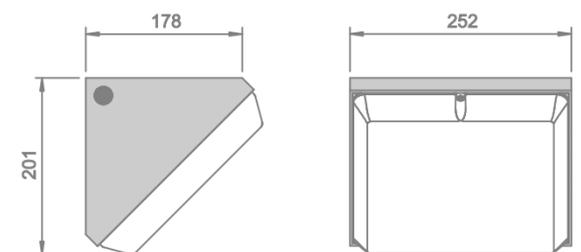
<b>TEXTURED BLACK B</b>	<b>TEXTURED WHITE W</b>	<b>TITANIUM C49</b>
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#### LAMP OPTIONS

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
DQR/800NW/XB	800lm	4000K	8W	800lm	100lm/W	3.5kg
DQR/1100NW/XB	1100lm	4000K	10W	1050lm	105lm/W	3.5kg
DQR/1400NW/XB	1400lm	4000K	15W	1500lm	97lm/W	3.5kg
DQR/1900NW/XB	1900lm	4000K	22W	2000lm	91lm/W	3.5kg
COMPACT FLUORESCENT - PRISMATIC						
DQR/162DLHF/PB	1050lm	3500K	18W	784lm	45lm/W	3.5kg
DQR/282DLHF/PB	2050lm	3500K	29W	1531lm	54lm/W	3.5kg
DQR/382DLHF/PB	2350lm	3500K	32W	1755lm	54lm/W	3.5kg

#### FITTING OPTIONS

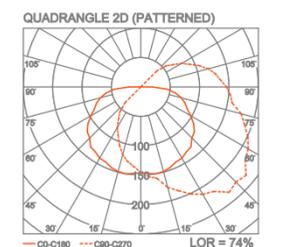
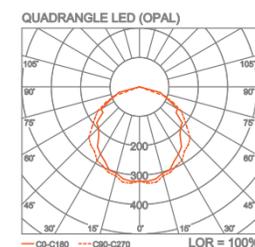
Textured white finish	replace B with W
Titanium finish	replace B with C49
Opal diffuser	replace P with X
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Photocell	add suffix /PEC
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix /MWBS
Blank ends	add suffix /BE
IP65 upgrade	add suffix /IP65



Corridor function\* add suffix /CF10

**Dimming not available on 16W or 38W 2D**

\*CF10 option available on LED only



# Miniquad



Discrete vandal and weather resistant bulkhead fitting.

- Surface and semi recessed versions available.
- Suitable for wall or ceiling mounting.
- Zinc coated steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and side, gaskets provided.

**FINISHES**



**LAMP OPTIONS**

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
QM/800NW/XB	800lm	4000K	8W	800lm	100lm/W	2kg	HT50°
QM/1100NW/XB	1100lm	4000K	10W	1050lm	105lm/W	2kg	HT50°

COMPACT FLUORESCENT - PRISMATIC

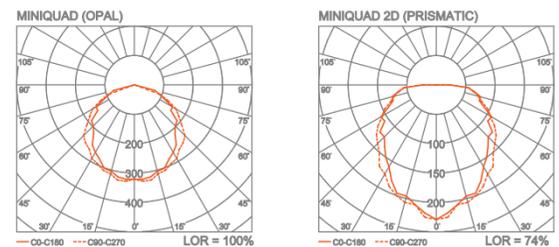
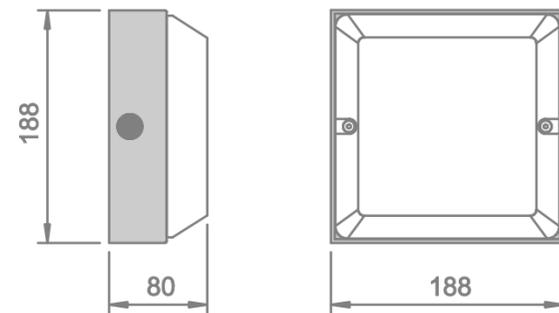
QM/162DLHF/PB	1050lm	3500K	18W	784lm	45lm/W	2kg
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**FITTING OPTIONS**

Textured white finish	replace B with W
Titanium finish	replace B with C49
Opal diffuser	replace P with X
Photocell	add suffix /PEC
Microwave sensor - Basic	add suffix /MWSB
Semi-recessed	add suffix /SR
Blank ends	add suffix /BE
IP65 upgrade	add suffix /IP65

HT

Applies to LED version only.



# Miniquad AL



Discrete anti-ligature vandal and weather resistant bulkhead fitting.

- Optional tamperproof rockerswitch for switching locally.
- Suitable for wall mounting.
- Zinc coated steel body finished in white polyester powder coat.
- Polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**

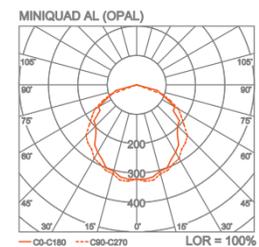
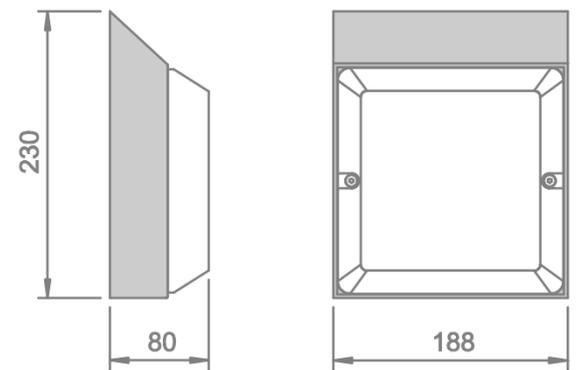


**LAMP OPTIONS**

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
QMAL/800NW/XW	800lm	4000K	8W	800lm	100lm/W	2kg
QMAL/1100NW/XW	1100lm	4000K	10W	1050lm	105lm/W	2kg

**FITTING OPTIONS**

Textured Black finish	replace W with B
Switch	add suffix /SW
Microwave sensor - Basic	add suffix /MWSB



# Quadratum



Recessed sealed luminaire suitable for use in tough environments.

- Designed to prevent the ingress of dust and moisture when used within clean room environments.
- Suitable for ceiling mounting.
- Zinc coated steel body finished in white polyester powder coat.
- Clear prismatic polycarbonate diffuser held against steel frame by silicone gasket seal.
- Designed to suit concealed fix 'Z' systems, will also accommodate exposed lay in-grid for either 24mm or 15mm 'T' section.
- Please note: stated IP rating applies from below only.
- Integral electronic control gear with fused terminal block.

**FINISHES**

TEXTURED WHITE W

**LAMP OPTIONS**

PRISMATIC DIFFUSER

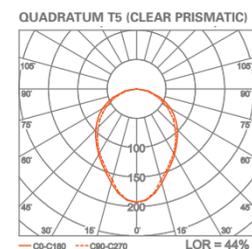
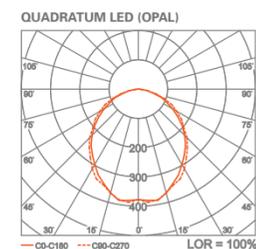
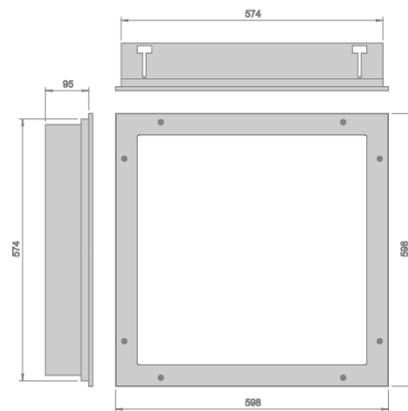
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
D936/5000NW/PW	5000lm	4000K	34W	3403lm	99lm/W	6kg

LINEAR FLUORESCENT

D936/414T5/PW	5400lm	N/A	60W	2376lm	40lm/W	6kg
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**FITTING OPTIONS**

Opal diffuser	replace P with X
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Warm white LEDs (3000K)	replace NW with WW



# Quadrato



Downlighting wall mounted weather and vandal resistant fitting.

- Die cast aluminium body and hood finished in matt black polyester powder coat.
- Opal polycarbonate diffuser secured with glazing frame.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**

MATT BLACK C04

MATT WHITE C46

MATT SILVER C48

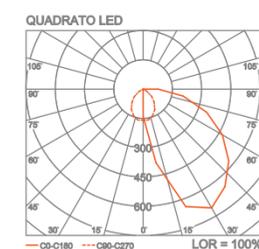
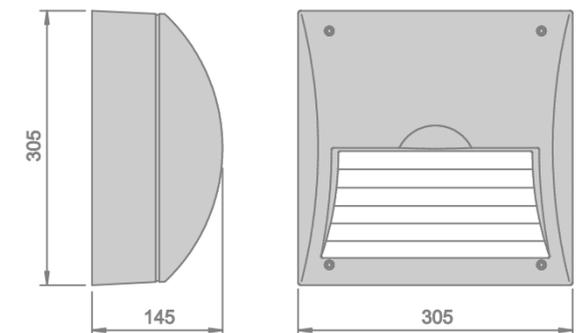
**LAMP OPTIONS**

OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
QTO/1400NW/XC04	1400lm	4000K	14W	900lm	64lm/W	4kg
QTO/1900NW/XC04	1900lm	4000K	20W	1200lm	60lm/W	4kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Photocell	add suffix /PEC
Side entry(s)	add suffix /H or /HH
Warm white LEDs (3000K)	replace NW with WW



# Quadriga

Vandal and weather resistant fitting for exterior applications.



- Suitable for wall or ceiling mounting.
- Die cast aluminium body finished in matt black polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**

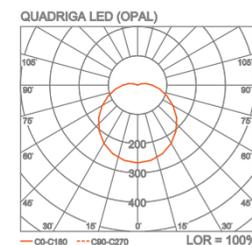
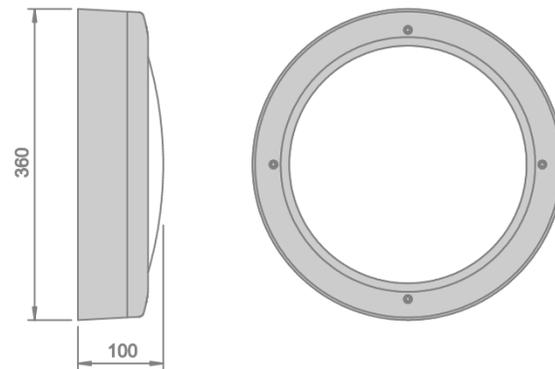


**LAMP OPTIONS**

OPAL DIFFUSER	Rating	Temp	Load	Lum/lms	Efficacy	Weight
LED						
QDR/1400NW/XC04	1400lm	4000K	15W	1010lm	66lm/W	3.5kg
QDR/1900NW/XC04	1900lm	4000K	22W	1371lm	63lm/W	3.5kg

**FITTING OPTIONS**

Matt white finish	replace C04 with C46
Matt silver finish	replace C04 with C48
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Photocell	add suffix /PEC
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix /MWBS
Semi-recessed	add suffix /SR
Side entry(s)	add suffix /H or /HH
Warm white LEDs (3000K)	replace NW with WW
Corridor function*	add suffix /CF10



Round vandal and weather resistant bulkhead fitting for wall mounting.

# Quadring



- Die cast aluminium body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**



**LAMP OPTIONS**

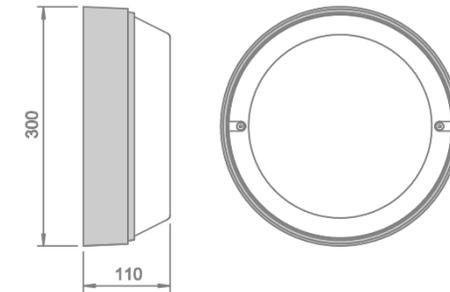
LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
RB/800NW/XB	800lm	4000K	7W	700lm	100lm/W	3.5kg
RB/1100NW/XB	1100lm	4000K	9W	950lm	105lm/W	3.5kg
RB/1400NW/XB	1400lm	4000K	14W	1450lm	97lm/W	3.5kg
RB/1900NW/XB	1900lm	4000K	21W	1950lm	91lm/W	3.5kg

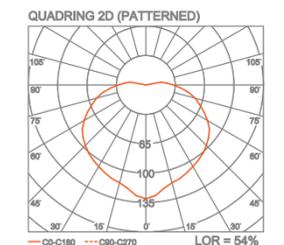
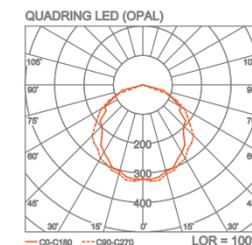
COMPACT FLUORESCENT - PRISMATIC	Rating	Temp	Load	Lum/lms	Efficacy	Weight
RB/162DLHF/PB	1050lm	3500K	15W	875lm	58lm/W	3.5kg
RB/282DLHF/PB	2050lm	3500K	29W	1708lm	60lm/W	3.5kg
RB/382DLHF/PB	2350lm	3500K	32W	1958lm	60lm/W	3.5kg

**FITTING OPTIONS**

Textured white finish	replace B with W
Titanium finish	replace B with C49
Opal diffuser	replace P with X
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency (LED only)	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Photocell	add suffix /PEC
Microwave sensor - Advanced	add suffix /MWSA
Microwave sensor - Basic	add suffix /MWBS
Semi-recessed	add suffix /SR
Side entry(s)	add suffix /H or /HH



Corridor function\* add suffix /CF10  
 Dimming not available on 16W or 38W 2D  
 \*CF10 option available on LED only



We can provide you with an on-site lighting survey and recommend luminaires suitable for your requirements.



IK16  
150J

IP65

HT

Soc.

Urb.

Hooded circular weather and vandal resistant fitting.

# Quantum



- Flexible options for installation include surface or semi-recessed versions.
- Suitable for wall mounting.
- Die cast aluminium body finished in titanium polyester powder coat.
- Opal polycarbonate diffuser held against a gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

## FINISHES

TITANIUM C49	MATT SILVER C48	MATT WHITE C46
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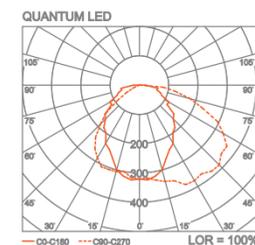
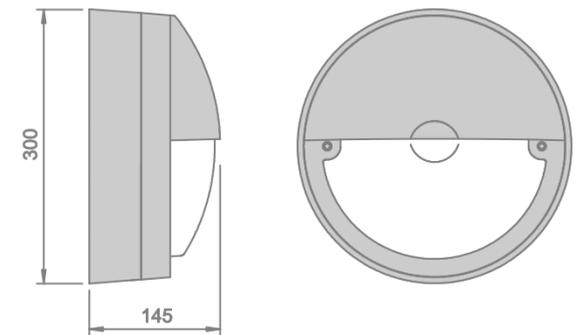
## LAMP OPTIONS

### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
QTM/1100NW/XC49	1100lm	4000K	10W	748lm	75lm/W	4kg	HT50°
QTM/1400NW/XC49	1400lm	4000K	14W	1027lm	70lm/W	4kg	HT50°
QTM/1900NW/XC49	1900lm	4000K	20W	1316lm	65lm/W	4kg	HT50°

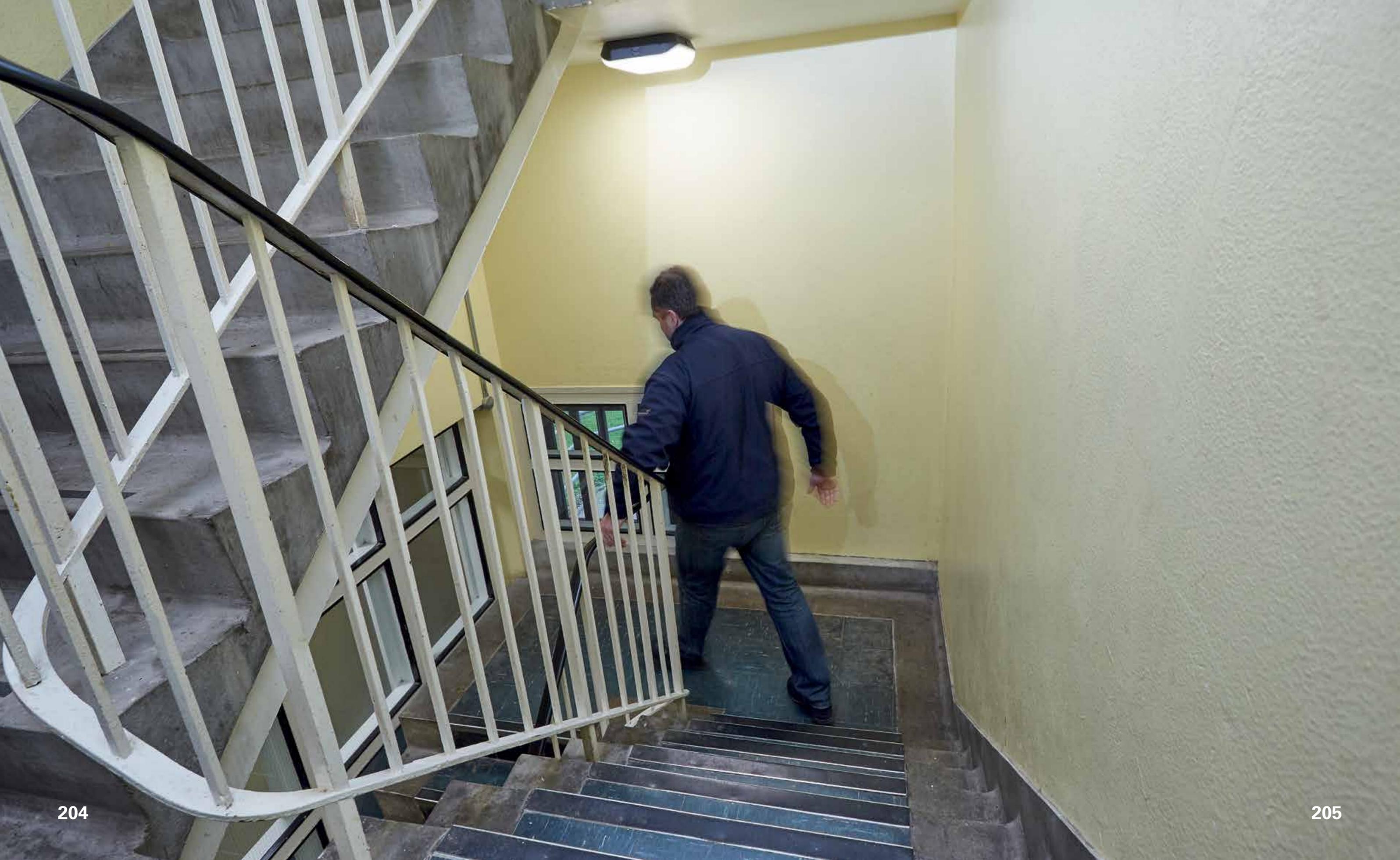
## FITTING OPTIONS

Matt silver finish	replace C49 with C48
Matt white finish	replace C49 with C46
Integral 3 hour duration emergency	add suffix /EM3
Photocell	add suffix /PEC
Semi-recessed	add suffix /SR
Side entry(s)	add suffix /H or /HH
Warm white LEDs (3000K)	replace NW with WW



HT

Applies to standard version. For any options (e.g. EM3) please check with technical sales.



# RDL/SDL range

The RDL/SDL range is a family of downlighters with individual fittings designed for specific hostile environments.

All of the downlighters have remote electronic control gear and high efficiency vacuum metalised reflectors on an aluminium substrate. This provides a very high efficiency and zero iridescence, and as the reflected surface is bonded to the aluminium there is no chance of cracking. Polycarbonate or tempered glass diffusers are sealed against a cast aluminium trim with gasket and tamperproof screws.

The AL range is suitable for custodial and secure healthcare environments where luminaires must meet strict standards to protect cell-mates and patients.

Our FSRDL 2 luminaire has a fully sealed back to prevent any ingress of particulates or moisture.

To find out which RDL/SDL family fitting is right for your application, contact our customer service team on +44 (0)20 8254 2020.



# RDL



Ceiling recessed round fitting suitable for interior applications.

- Suitable for ceiling mounting.
- Heavy duty steel spinning finished in black polyester powder coat.
- Clear polycarbonate diffuser held against gasket by tamperproof screws.
- Remote electronic control gear.
- Please note: stated IP rating applies from below only.

## FINISHES



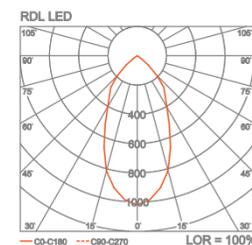
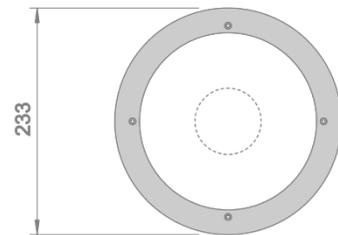
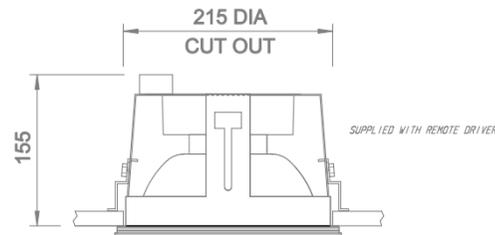
## LAMP OPTIONS

### CLEAR DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
RDL/1100NW/CB	1100lm	4000K	10W	900lm	94lm/W	2.5kg	HT50°
RDL/1500NW/CB	1500lm	4000K	14W	1275lm	94lm/W	2.5kg	HT50°
RDL/2000NW/CB	2000lm	4000K	19W	1800lm	92lm/W	2.5kg	HT50°
RDL/3000NW/CB	3000lm	4000K	29W	2600lm	90lm/W	2.5kg	HT40°

## FITTING OPTIONS

Smooth white finish	replace B with C31
Opal diffuser	replace C with X
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Warm white LEDs (3000K)	replace NW with WW



HT

Applies to standard version. For any options (e.g. EM3) and to check 50° application for RDL/3000NW/CB please contact technical sales.

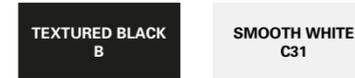
# SDL



Ceiling recessed square fitting suitable for interior applications.

- Suitable for ceiling mounting.
- Heavy duty steel frame finished in black polyester powder coat.
- Clear polycarbonate diffuser held against gasket by tamperproof screws.
- Remote electronic control gear.
- Please note: stated IP rating applies from below only.

## FINISHES



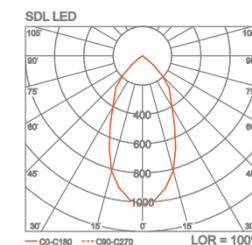
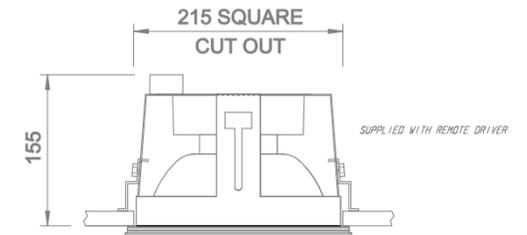
## LAMP OPTIONS

### CLEAR DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
SDL/1100NW/CB	1100lm	4000K	10W	900lm	94lm/W	2.5kg
SDL/1500NW/CB	1500lm	4000K	14W	1275lm	94lm/W	2.5kg
SDL/2000NW/CB	2000lm	4000K	19W	1800lm	92lm/W	2.5kg
SDL/3000NW/CB	3000lm	4000K	29W	2600lm	90lm/W	2.5kg

## FITTING OPTIONS

Smooth white finish	replace B with C31
Opal diffuser	replace C with X
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Warm white LEDs (3000K)	replace NW with WW



# RDL AL



Sealed round downlight suitable for secure accommodation.

- Sealed with a mastic compound and increased impact rating to make it suitable for anti-ligature applications.
- Suitable for recessed ceiling mounting.
- Heavy duty steel spinning finished in smooth white polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Remote electronic control gear.
- Please note: stated IP rating applies from below only.

**FINISHES**

SMOOTH WHITE C31

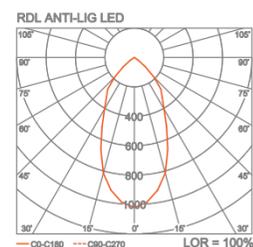
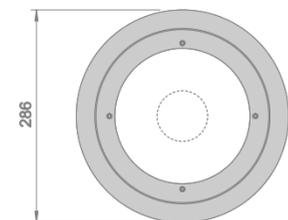
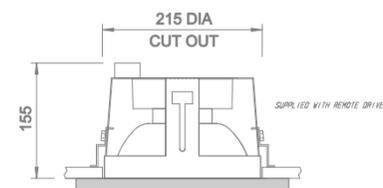
**LAMP OPTIONS**

OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
ALRDL/1100NW/XC31	1100lm	4000K	10W	700lm	72lm/W	3.1kg
ALRDL/1500NW/XC31	1500lm	4000K	14W	1000lm	72lm/W	3.1kg
ALRDL/2000NW/XC31	2000lm	4000K	19W	1375lm	71lm/W	3.1kg
ALRDL/3000NW/XC31	3000lm	4000K	29W	2000lm	69lm/W	3.1kg

**FITTING OPTIONS**

Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Night light	add suffix /NL
Warm white LEDs (3000K)	replace NW with WW



# SDL AL



Sealed square downlight suitable for secure accommodation.

- Sealed with a mastic compound and increased impact rating to make it suitable for anti-ligature applications.
- Suitable for recessed ceiling mounting.
- Heavy duty steel frame finished in smooth white polyester powder coat.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Remote electronic control gear.
- Please note: stated IP rating applies from below only.

**FINISHES**

SMOOTH WHITE C31

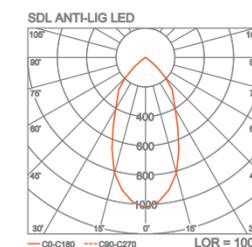
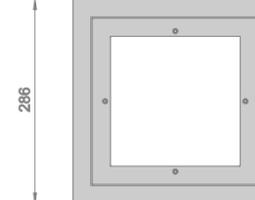
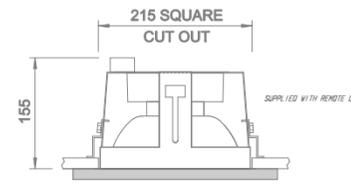
**LAMP OPTIONS**

OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
ALSDL/1100NW/XC31	1100lm	4000K	10W	700lm	72lm/W	3.1kg
ALSDL/1500NW/XC31	1500lm	4000K	14W	1000lm	72lm/W	3.1kg
ALSDL/2000NW/XC31	2000lm	4000K	19W	1375lm	71lm/W	3.1kg
ALSDL/3000NW/XC31	3000lm	4000K	29W	2000lm	69lm/W	3.1kg

**FITTING OPTIONS**

Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Night light	add suffix /NL
Warm white LEDs (3000K)	replace NW with WW



Our FSRDL 2 luminaire is suitable for surface or semi-recessed ceiling mounting.



IK11  
35J

IP55

S12

Tra.

Soc.

Cus.

Sec.

Urb.

Fully sealed recessed round fitting suitable for interior applications.

# FSRDL 2

- Suitable for surface or semi-recessed ceiling mounting.
- Aluminium body finished in smooth white polyester powder coat.
- Clear polycarbonate diffuser held against gasket by tamperproof screws.
- Integral electronic control gear with fused terminal block.
- Provision for conduit entry in back, gaskets provided.



#### FINISHES

SMOOTH WHITE  
C31

TEXTURED BLACK  
B

MATT SILVER  
C48

#### LAMP OPTIONS

##### CLEAR DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
FSRDL2/1100NW/CC31	1100lm	4000K	10W	900lm	94lm/W	3.5kg
FSRDL2/1500NW/CC31	1500lm	4000K	14W	1275lm	94lm/W	3.5kg
FSRDL2/2000NW/CC31	2000lm	4000K	19W	1800lm	92lm/W	3.5kg

#### FITTING OPTIONS

Textured black finish	replace C31 with B
Matt silver finish	replace C31 with C48
Opal diffuser	replace C with X
Section 12 clear glass (IK8)	replace C with S12C
Section 12 frosted glass (IK8)	replace C with S12F
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Surface version	add suffix /SUR
Warm white LEDs (3000K)	replace NW with WW

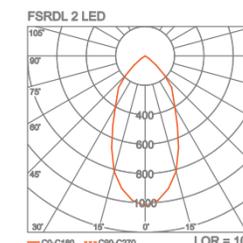
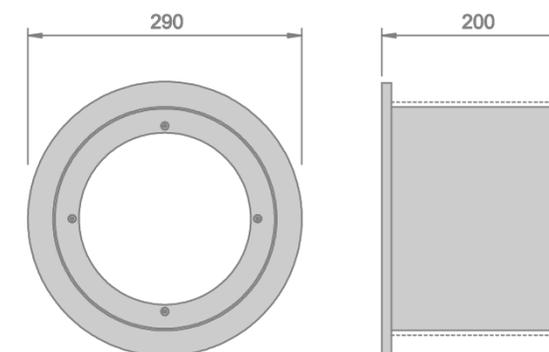
S12

Section 12 compliant versions available (IK8). For section 12 version with clear glass diffuser add suffix /S12C. For section 12 version with frosted glass diffuser add suffix /S12F.

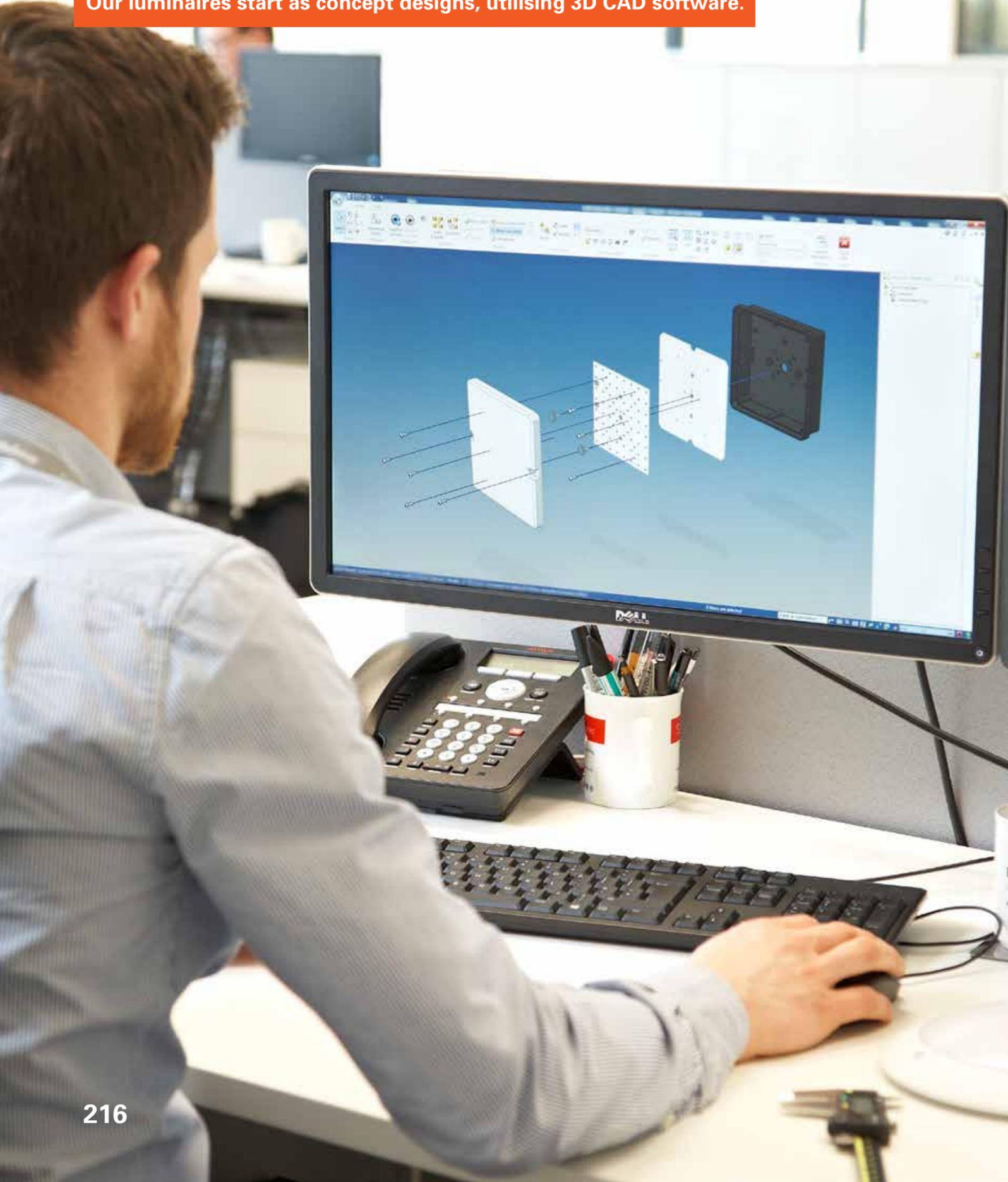
#### VERSIONS



SURFACE







Slim square bulkhead fitting for interior or exterior applications.

# SquareCore

- Die cast aluminium body finished in black polyester powder coat.
- Suitable for wall or ceiling mounting.
- Opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.



#### FINISHES



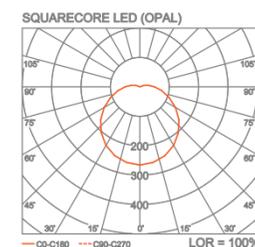
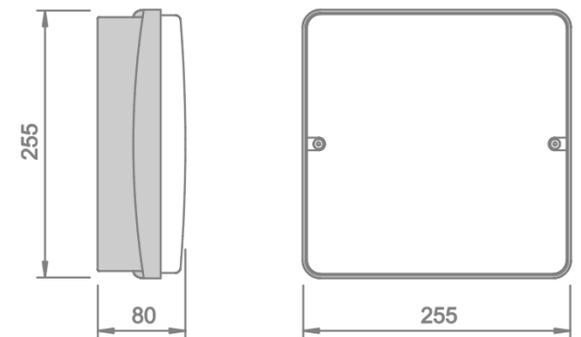
#### LAMP OPTIONS

##### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight	HT
SC/1300NW/XB	1300lm	4000K	15W	1350lm	91lm/W	3kg	HT50°
SC/1800NW/XB	1800lm	4000K	22W	1850lm	86lm/W	3kg	HT50°

#### FITTING OPTIONS

Textured white finish	replace B with W
Integral 3 hour duration emergency	add suffix /EM3
Microwave sensor - Basic	add suffix /MWSB
Corridor function	add suffix /CF10
Side entry	add suffix /HH



**HT**  
Applies to standard version. For any options (e.g. EM3) please check with technical sales.

# Stromma

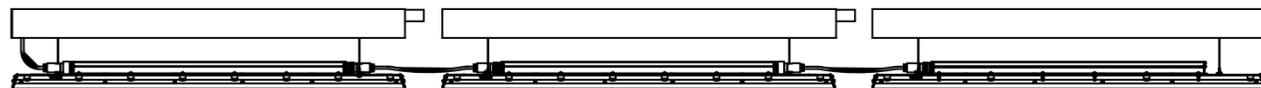
Robust vandal and weather-resistant IP65 rated modular lighting system offering continuous linear illumination.



- Adaptable modular system which can be stand-alone, drop rod suspended, surface mounted or used in a recessed style with shadow gap (e.g. for metal plank ceilings).
- Easily integrated luminaires, in a variety of lengths, enable flexible, continuous illumination.
- Extruded aluminium body finished in matt silver polyester powder coat.
- Opal polycarbonate diffuser utilising new high transmission material which helps prevent LED hot spots, provides uniform light output and has advanced UV resistance.
- LEDs, electronic DALI control gear and diffuser supplied in a sealed module that is removable, replaceable and upgradable.
- Five year full product warranty\*.

## Continuous illumination in three easy steps

**Stromma** needs just three things to provide continuous illumination. A beginning, a middle and an end.



### Beginning

Choose any length of **Stromma**, in this case 1,444mm long. Specify CB in the part number.

STR/5/L/3000NW/XC48/DALI/CB

### Middle

Select your middle unit(s), in this case 1,164mm long. Specify CM in the part number.

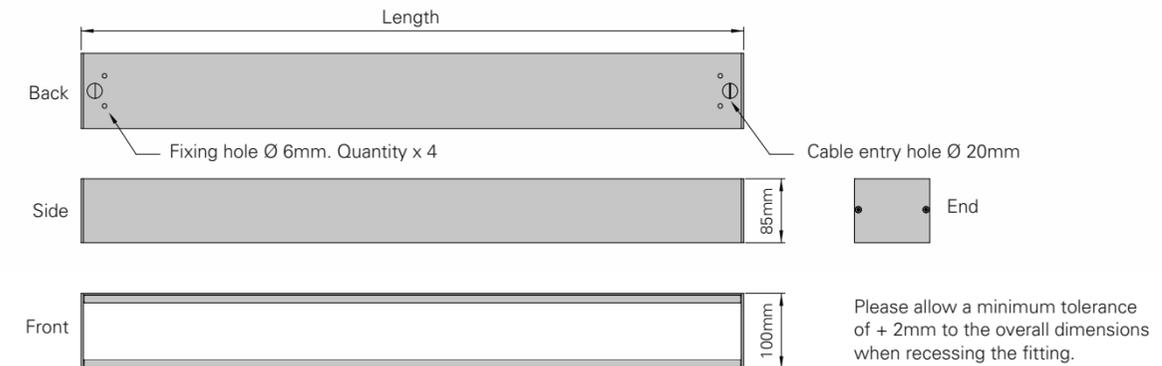
STR/4/L/2400NW/XC48/DALI/CM

### End

Choose your final **Stromma**, in this case 1,444mm long. Specify CE in the part number.

STR/5/L/3000NW/XC48/DALI/CE

\* Five year full product warranty based on operation up to the stated HT ambient temperature and at constant use, except the emergency battery packs which carry a 12 month warranty.



### RATING OPTIONS (STAND ALONE, SURFACE OR RECESSED)

LED - Opal	Dimensions (mm)	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
<b>Low output*</b>								
STR/2/L/1200NW/XC48/DALI	L600 x W100 x H85	1200lm	4000K	11W	1214lm	110lm/W	3.5kg	HT50°
STR/3/L/1800NW/XC48/DALI	L880 x W100 x H85	1800lm	4000K	16W	1822lm	114lm/W	5kg	HT50°
STR/4/L/2400NW/XC48/DALI	L1164 x W100 x H85	2400lm	4000K	22W	2429lm	110lm/W	6.5kg	HT50°
STR/5/L/3000NW/XC48/DALI	L1444 x W100 x H85	3000lm	4000K	28W	3036lm	108lm/W	8kg	HT50°

### High output\*

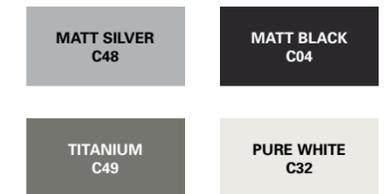
STR/2/H/2000NW/XC48/DALI	L600 x W100 x H85	2000lm	4000K	20W	2086lm	104lm/W	3.5kg	HT40°
STR/3/H/3000NW/XC48/DALI	L880 x W100 x H85	3000lm	4000K	30W	3128lm	104lm/W	5kg	HT40°
STR/4/H/4000NW/XC48/DALI	L1164 x W100 x H85	4000lm	4000K	40W	4171lm	104lm/W	6.5kg	HT40°
STR/5/H/5000NW/XC48/DALI	L1444 x W100 x H85	5000lm	4000K	50W	5214lm	104lm/W	8kg	HT40°

\*When specifying continuous illumination, low and high output versions should not be mixed



Applies to standard version. For any options (e.g. EM3), please contact technical sales.

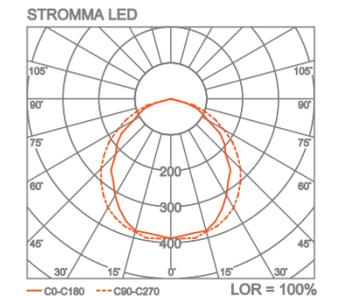
### FINISHES



### FITTING OPTIONS

Matt black finish	replace C48 with C04
Titanium finish	replace C48 with C49
Pure white finish	replace C48 with C32
Integral 3 hour duration emergency*	add suffix /EM3
DALI 3 hour duration emergency*	add suffix /EM3D
Warm white LEDs (3000K)	replace NW with WW
Microwave sensor - Basic	add suffix /MWSB
Continuous beginning (deduct 3mm from length for end cap)	add suffix /CB
Continuous middle (deduct 6mm from length for end caps)	add suffix /CM
Continuous end (deduct 3mm from length for end cap)	add suffix /CE
Power feed entry through end cap	add suffix /H
Suspended (contact us to discuss your requirements)	add suffix /S and length of drop rod (mm)
Flanged recessed body (e.g. for plaster board ceilings)	add suffix /R

\*No emergency options available on all 2 foot (600mm) and 3 foot (880mm) versions



# Terminus



Recessed weather and vandal resistant downlighter.

- Fully sealed robust downlighter for use in transport, social housing and urban applications.
- Light output is over 90 lumens per watt with a high CRI of over 90.
- Suitable for recessed ceiling mounting.
- Die cast aluminium body finished in titanium polyester powder coat.
- Clear polycarbonate diffuser.
- Remote electronic control gear with fused terminal block.
- Provision for conduit entry, gaskets provided.

**FINISHES**



**LAMP OPTIONS**

CLEAR DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
TMR/1100WNW/CC49	1100lm	4000K	10W	905lm	90lm/W	3kg	HT50°
TMR/2000WNW/CC49	2000lm	4000K	18W	1645lm	91lm/W	3kg	HT50°
TMR/3000WNW/CC49	3000lm	4000K	27W	2468lm	91lm/W	3kg	HT50°
TMR/4500WNW/CC49	4500lm	4000K	41W	3701lm	90lm/W	3kg	HT50°

**FITTING OPTIONS**

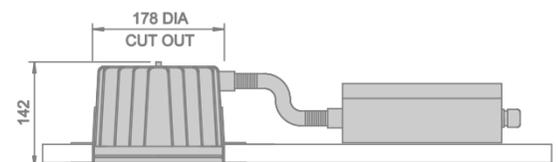
Matt white finish	replace C49 with C46
Matt silver finish	replace C49 with C48
Opal diffuser	replace C with X
S12 toughened clear glass (IK8)	add suffix /S12C
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Medium beam	replace W with M
Warm white LEDs (3000K)	replace NW with WW
Asymmetric distribution	add suffix /ASM

S12

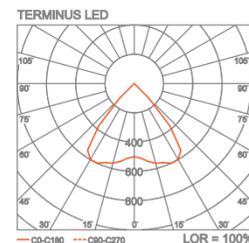
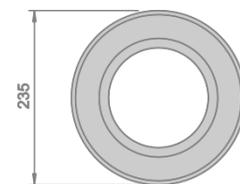
Section 12 compliant version available with toughened clear glass diffuser (IK8). Add suffix /S12C if required.

HT

Applies to standard version. For any options (e.g. EM3) please check with technical sales.



**REMOTE BOX SIZE**  
Standard = 308mm x 154mm x 56mm  
Emergency = 458mm x 154mm x 56mm



# Terminus Surface



Cylindrical sealed weather and vandal resistant downlighter.

- Fully sealed robust downlighter for use in transport, social housing and urban applications.
- Light output is over 90 lumens per watt with a high CRI of over 90.
- Suitable for ceiling mounting.
- Extruded aluminium body with die cast ends, finished in titanium polyester powder coat.
- Clear polycarbonate diffuser.
- Integral electronic control gear with fused terminal block.

**FINISHES**



**LAMP OPTIONS**

CLEAR DIFFUSER

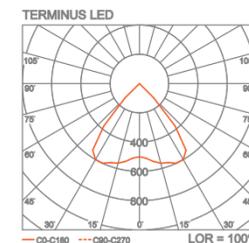
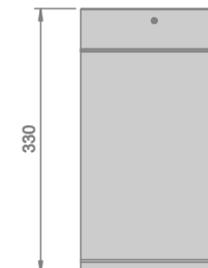
LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
TMS/1100WNW/CC49	1100lm	4000K	10W	905lm	90lm/W	4kg
TMS/2000WNW/CC49	2000lm	4000K	18W	1645lm	91lm/W	4kg
TMS/3000WNW/CC49	3000lm	4000K	27W	2468lm	91lm/W	4kg
TMS/4500WNW/CC49	4500lm	4000K	41W	3701lm	90lm/W	4kg
TMS/6000WNW/CC49	6000lm	4000K	52W	4653lm	89lm/W	4kg

**FITTING OPTIONS**

Matt white finish	replace C49 with C46
Matt silver finish	replace C49 with C48
S12 toughened clear glass (IK8)	add suffix /S12C
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Medium beam	replace W with M
Warm white LEDs (3000K)	replace NW with WW
Asymmetric distribution	add suffix /ASM

S12

Section 12 compliant version available with toughened clear glass diffuser (IK8). Add suffix /S12C if required.





Decorative cylindrical fitting for wall mounted applications.

- Robust, elegant fitting with an option for upward and downward light projection.
- Light output is over 90 lumens per watt with a high CRI of over 90.
- Suitable for wall mounting.
- Extruded aluminium body with die cast ends, finished in titanium polyester powder coat.
- Clear polycarbonate diffuser.
- Integral electronic control gear with fused terminal block.
- Provision for conduit entry via mounting bracket, gaskets provided.

# Terminus Wall



#### FINISHES

TITANIUM C49	MATT WHITE C46	MATT SILVER C48
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#### LAMP OPTIONS

##### CLEAR DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
TMW/1100WNW/CC49	1100lm	4000K	10W	905lm	90lm/W	4.5kg
TMW/2000WNW/CC49	2000lm	4000K	18W	1645lm	91lm/W	4.5kg
TMW/3000WNW/CC49	3000lm	4000K	27W	2468lm	91lm/W	4.5kg
TMW/4500WNW/CC49	4500lm	4000K	41W	3701lm	90lm/W	4.5kg

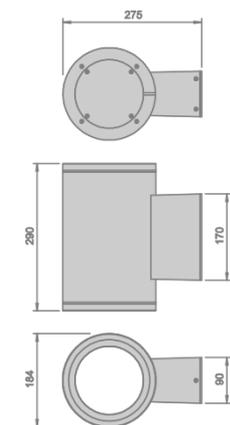
#### FITTING OPTIONS

Matt white finish	replace C49 with C46
Matt silver finish	replace C49 with C48
S12 toughened clear glass (IK8)	add suffix /S12C
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Uplight feature	add D after TMW
Medium beam	replace W with M
Warm white LEDs (3000K)	replace NW with WW
Post Top version	contact technical sales

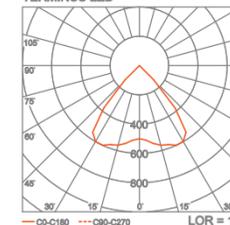
\*Upward light only available on 1100lm and 2000lm versions

#### S12

Section 12 compliant version available with toughened clear glass diffuser (IK8). Add suffix /S12C if required.



#### TERMINUS LED





# Torino



Wall or ceiling mounted fitting particularly suited for housing.

- Steel spinning and fixing plate finished in matt white polyester powder coat.
- Opal polycarbonate diffuser held against body by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back.

## FINISHES



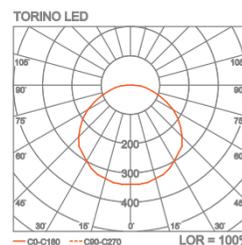
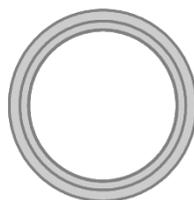
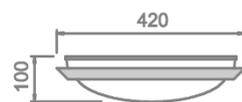
## LAMP OPTIONS

### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
TOR2/1400NW/C46	1400lm	4000K	15W	1313lm	91lm/W	3.5kg
TOR2/1900NW/C46	1900lm	4000K	21W	1743lm	83lm/W	3.5kg

## FITTING OPTIONS

Matt silver finish	replace C46 with C48
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Corridor function	add suffix /CF10
Microwave sensor - Basic	add suffix /MWSB
IP44 upgrade	add suffix /IP44



We continually invest in our manufacturing machinery and processes to ensure our luminaires are made to the highest standards.



Wall or ceiling mounted fitting suitable for secure accommodation.

# Torino AL

- Attractive fitting ideal for bedrooms and other areas.
- Steel spinning and fixing plate finished in matt white polyester powder coat.
- Opal polycarbonate diffuser held against body by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back.



**FINISHES**

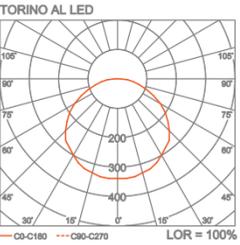
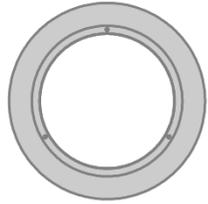
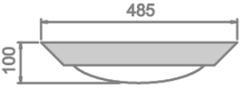
<b>MATT WHITE</b> C46	<b>MATT SILVER</b> C48
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**LAMP OPTIONS**

OPAL DIFFUSER	LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
TAL2/1400NW/C46		1400lm	4000K	15W	1314lm	91lm/W	4.5kg
TAL2/1900NW/C46		1900lm	4000K	21W	1763lm	83lm/W	4.5kg

**FITTING OPTIONS**

Matt silver finish	replace C46 with C48
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Corridor function	add suffix /CF10
Microwave sensor - Basic	add suffix /MWSB





# Tuscan range

Tuscan has been a Designplan institution for decades, having launched over 35 years ago in 1979.

The entire Tuscan range is robustly constructed and is designed for continued exposure to weather and corrosive conditions and to withstand extreme acts of vandalism. The range of linear and bulkhead fittings includes versions for surface, angle and recess mounting, as well as custodial, anti-ligature and trunking versions (with options for blanking and dummy bodies).

All of the traditional Designplan features are present in a Tuscan fitting – robust zinc coated steel fabricated bodies, tough polycarbonate diffusers and a variety of easy maintenance lamp options. The fittings have been specified in almost every environment; pedestrian subways and walkways, kitchen cooker hoods, station platforms, diesel vehicle inspection pits, public toilets, hospitals and underpasses.

The Tuscan range is also very flexible and many bespoke versions have been made throughout the decades. As a result the basic fitting has often benefitted from the advancements made in these special orders.

For more information on the Tuscan range and how it could suit your application, please contact our customer service team on + 44 (0)20 8254 2020.



# Tuscan 89

The market leading weather and vandal resistant fitting.



- Designed to resist extreme physical attack.
- Applications include subways, platforms and pedestrian walkways.
- Suitable for wall and ceiling mounting.
- Heavy gauge steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket with tamperproof screws.
- Dummy bodies and infill panels available for continuous mounting, please contact technical sales.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.



## FINISHES



## LAMP OPTIONS

### 650mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D890/2/2000NW/XB	2000lm	4000K	18W	1816lm	101lm/W	5kg
D890/2/2500NW/XB	2500lm	4000K	22W	2201lm	100lm/W	5kg
D890/2/3000NW/XB	3000lm	4000K	26W	2466lm	95lm/W	5kg

### LINEAR FLUORESCENT - CLEAR PATTERNED

D890/124T5B	1750lm	N/A	25W	1208lm	48lm/W	5kg
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### 1250mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
D890/4/2000NW/XB	2000lm	4000K	21W	2262lm	108lm/W	10kg	HT50°
D890/4/3000NW/XB	3000lm	4000K	28W	2992lm	107lm/W	10kg	HT50°
D890/4/4000NW/XB	4000lm	4000K	35W	3631lm	103lm/W	10kg	HT50°
D890/4/5000NW/XB	5000lm	4000K	43W	4402lm	103lm/W	10kg	HT50°
D890/4/6000NW/XB	6000lm	4000K	51W	4932lm	98lm/W	10kg	HT50°

### LINEAR FLUORESCENT - CLEAR PATTERNED

D890/128T5B	2625lm	N/A	31W	1811lm	59lm/W	10kg
D890/228T5B	5250lm	N/A	62W	3623lm	59lm/W	10kg
D890/154T5B	4450lm	N/A	57W	3071lm	54lm/W	10kg

### 1550mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D890/5/2500NW/XB	2500lm	4000K	27W	2828lm	105lm/W	12kg
D890/5/3750NW/XB	3750lm	4000K	35W	3740lm	107lm/W	12kg
D890/5/5000NW/XB	5000lm	4000K	44W	4539lm	103lm/W	12kg
D890/5/6250NW/XB	6250lm	4000K	54W	5503lm	102lm/W	12kg
D890/5/7500NW/XB	7500lm	4000K	63W	6165lm	98lm/W	12kg

### LINEAR FLUORESCENT - CLEAR PATTERNED

D890/135T5B	3325lm	N/A	37W	2294lm	62lm/W	12kg
D890/235T5B	6650lm	N/A	74W	4589lm	62lm/W	12kg
D890/149T5B	4375lm	N/A	54W	3019lm	56lm/W	12kg
D890/249T5B	8750lm	N/A	106W	6038lm	57lm/W	12kg



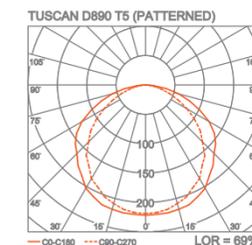
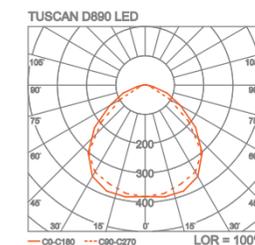
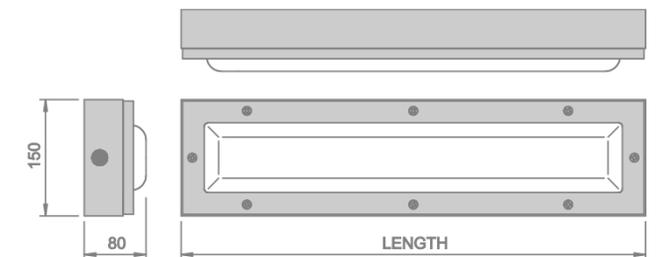
Applies to standard version. For any options (e.g. EM3) please check with technical sales.

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Recessed	add suffix /R
Blank ends	add suffix /BE
For Network Rail specification	add suffix /NET
Warm white LEDs (3000K)	replace NW with WW
Corridor function**	add suffix /CF10
Anti Graffiti Diffuser Upgrade	add suffix /AGD
6mm Burns Test Compliant Fybagard Diffuser Upgrade	add suffix /FY

\*EM3D not available on all 2 foot (650mm) versions

\*\*CF10 option available on LED only



# Tuscan 89 Angled

The market leading weather and vandal resistant fitting.



- Designed to resist extreme attack
- Applications include subways, platforms and pedestrian walkways.
- Suitable for cornice mounting at either 45° or 30°/60° angles.
- Heavy gauge steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket with tamperproof screws.
- Dummy bodies and infill panels available for continuous mounting, please contact technical sales.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.



## FINISHES



## LAMP OPTIONS

### 650mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D893/2/2000NW/XB	2000lm	4000K	18W	1816lm	101lm/W	5kg
D893/2/2500NW/XB	2500lm	4000K	22W	2201lm	100lm/W	5kg
D893/2/3000NW/XB	3000lm	4000K	26W	2466lm	95lm/W	5kg

### LINEAR FLUORESCENT - CLEAR PATTERNED

D893/124T5B	1750lm	N/A	25W	1208lm	48lm/W	5kg
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### 1250mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D893/4/2000NW/XB	2000lm	4000K	21W	2262lm	108lm/W	10kg
D893/4/3000NW/XB	3000lm	4000K	28W	2992lm	107lm/W	10kg
D893/4/4000NW/XB	4000lm	4000K	35W	3631lm	103lm/W	10kg
D893/4/5000NW/XB	5000lm	4000K	43W	4402lm	103lm/W	10kg
D893/4/6000NW/XB	6000lm	4000K	51W	4932lm	98lm/W	10kg

### LINEAR FLUORESCENT - CLEAR PATTERNED

D893/128T5B	2625lm	N/A	31W	1811lm	59lm/W	10kg
D893/228T5B	5250lm	N/A	62W	3623lm	59lm/W	10kg
D893/154T5B	4450lm	N/A	57W	3071lm	54lm/W	10kg

## VERSIONS



D892 30°/60°

### 1550mm LONG

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D893/5/2500NW/XB	2500lm	4000K	27W	2828lm	105lm/W	12kg
D893/5/3750NW/XB	3750lm	4000K	35W	3740lm	107lm/W	12kg
D893/5/5000NW/XB	5000lm	4000K	44W	4539lm	103lm/W	12kg
D893/5/6250NW/XB	6250lm	4000K	54W	5503lm	102lm/W	12kg
D893/5/7500NW/XB	7500lm	4000K	63W	6165lm	98lm/W	12kg

### LINEAR FLUORESCENT - CLEAR PATTERNED

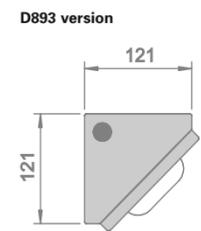
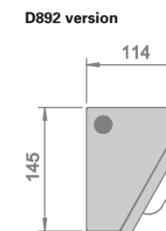
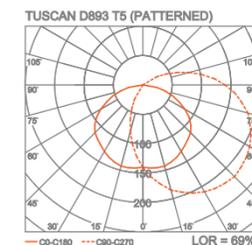
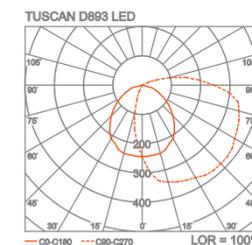
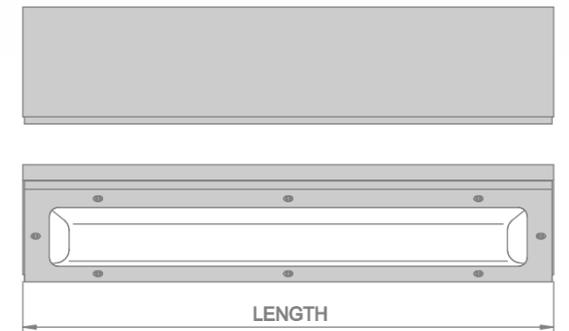
D893/135T5B	3325lm	N/A	37W	2294lm	62lm/W	12kg
D893/235T5B	6650lm	N/A	74W	4589lm	62lm/W	12kg
D893/149T5B	4375lm	N/A	54W	3019lm	56lm/W	12kg
D893/249T5B	8750lm	N/A	106W	6038lm	57lm/W	12kg

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Warm white LEDs (3000K)	replace NW with WW
Switch dimming	add suffix /DIM
For 30/60° angled version	replace D893 with D892
Blank ends	add suffix /BE
For Network Rail specification	add suffix /NET
Corridor function**	add suffix /CF10
Anti Graffiti Diffuser Upgrade	add suffix /AGD
6mm Burns Test Compliant Fybagard Diffuser	add suffix /FY

\*EM3D not available on all 2 foot (650mm) versions

\*\*CF10 option available on LED only



# Tuscan 88

The market leading weather and vandal resistant fitting.



- Designed to resist extreme physical attack.
- Applications include subways, platforms and pedestrian walkways.
- Suitable for wall and ceiling mounting.
- Heavy gauge steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket with tamperproof screws.
- Dummy bodies and infill panels available for continuous mounting, please contact technical sales.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.



**FINISHES**



**LAMP OPTIONS**

CLEAR DIFFUSER

**700mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/2/1500NW/B	1500lm	4000K	15W	1343lm	89lm/W	7kg
D880/2/2000NW/B	2000lm	4000K	18W	1790lm	99lm/W	7kg
D880/2/2500NW/B	2500lm	4000K	22W	2238lm	102lm/W	7kg
D880/2/3000NW/B	3000lm	4000K	26W	2685lm	103lm/W	7kg

LINEAR FLUORESCENT

D880/12HF/B	1350lm	N/A	18W	932lm	51lm/W	7kg
D880/22HF/B	2700lm	N/A	35W	1863lm	54lm/W	7kg

**1300mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/4/3000NW/B	3000lm	4000K	28W	2685lm	96lm/W	12kg
D880/4/4000NW/B	4000lm	4000K	35W	3580lm	102lm/W	12kg
D880/4/5000NW/B	5000lm	4000K	43W	4475lm	104lm/W	12kg
D880/4/6000NW/B	6000lm	4000K	51W	5370lm	105lm/W	12kg

LINEAR FLUORESCENT

D880/14HF/B	3350lm	N/A	35W	2312lm	67lm/W	12kg
D880/24HF/B	6700lm	N/A	66W	4623lm	70lm/W	12kg

**1600mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/5/3750NW/B	3750lm	4000K	35W	3356lm	96lm/W	15kg
D880/5/5000NW/B	5000lm	4000K	44W	4475lm	102lm/W	15kg
D880/5/6250NW/B	6250lm	4000K	54W	5594lm	103lm/W	15kg
D880/5/7500NW/B	7500lm	4000K	63W	6713lm	106lm/W	15kg

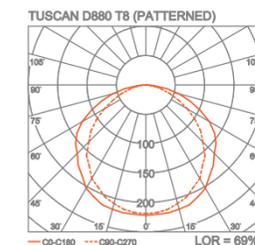
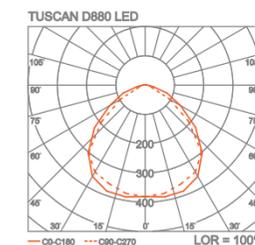
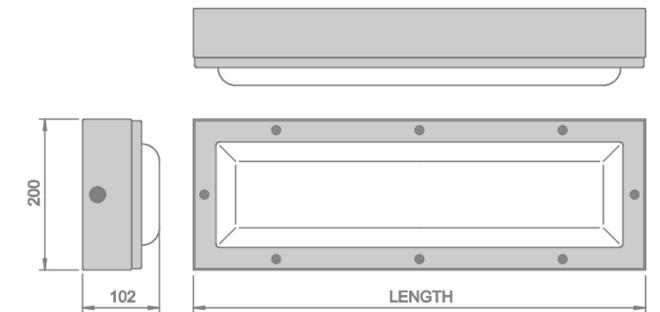
LINEAR FLUORESCENT

D880/15HF/B	5200lm	N/A	53W	3588lm	68lm/W	15kg
D880/25HF/B	10400lm	N/A	106W	7176lm	68lm/W	15kg

**FITTING OPTIONS**

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Warm white LEDs (3000K)	replace NW with WW
Switch dimming	add suffix /DIM
Recessed	add suffix /R
Blank ends	add suffix /BE
For Network Rail specification	add suffix /NET
Opal diffuser	add suffix /X
Anti Graffiti Diffuser Upgrade	add suffix /AGD
6mm Burns Test Compliant Fybagard Diffuser Upgrade	add suffix /FY

\*EM3D not available on all 2 foot (700mm) versions



Tuscan is our market leading family of weather and vandal resistant fittings designed for a variety of transport, social housing, custodial and urban applications.

# Tuscan 88 Angled

The market leading weather and vandal resistant fitting.



- Designed to resist extreme attack
- Applications include subways, platforms and pedestrian walkways.
- Suitable for cornice mounting at either 45° or 30°/60° angles.
- Heavy gauge steel body finished in black polyester powder coat.
- Polycarbonate diffuser held against gasket with tamperproof screws.
- Dummy bodies and infill panels available for continuous mounting, please contact technical sales.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.



## FINISHES



## LAMP OPTIONS

### CLEAR DIFFUSER

#### 700mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D883/2/1500NW/B	1500lm	4000K	15W	1343lm	89lm/W	7kg
D883/2/2000NW/B	2000lm	4000K	18W	1790lm	99lm/W	7kg
D883/2/2500NW/B	2500lm	4000K	22W	2238lm	102lm/W	7kg
D883/2/3000NW/B	3000lm	4000K	26W	2685lm	103lm/W	7kg

### LINEAR FLUORESCENT

D883/12HF/B	1350lm	N/A	18W	932lm	51lm/W	7kg
D883/22HF/B	2700lm	N/A	35W	1863lm	54lm/W	7kg

#### 1300mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D883/4/3000NW/B	3000lm	4000K	28W	2685lm	96lm/W	12kg
D883/4/4000NW/B	4000lm	4000K	35W	3580lm	102lm/W	12kg
D883/4/5000NW/B	5000lm	4000K	43W	4475lm	104lm/W	12kg
D883/4/6000NW/B	6000lm	4000K	51W	5370lm	105lm/W	12kg

### LINEAR FLUORESCENT

D883/14HF/B	3350lm	N/A	35W	2312lm	67lm/W	12kg
D883/24HF/B	6700lm	N/A	66W	4623lm	70lm/W	12kg

## VERSIONS



D882 30°/60°

#### 1600mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D883/5/3750NW/B	3750lm	4000K	35W	3356lm	96lm/W	15kg
D883/5/5000NW/B	5000lm	4000K	44W	4475lm	102lm/W	15kg
D883/5/6250NW/B	6250lm	4000K	54W	5594lm	103lm/W	15kg
D883/5/7500NW/B	7500lm	4000K	63W	6713lm	106lm/W	15kg

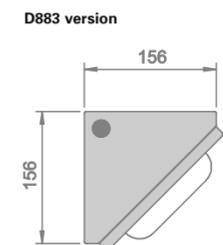
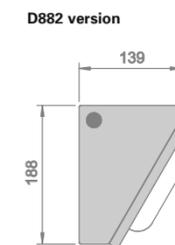
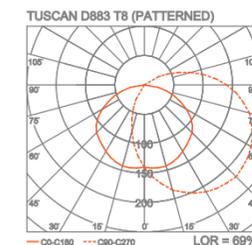
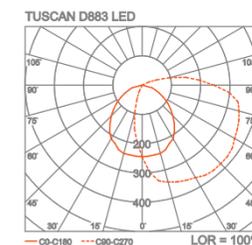
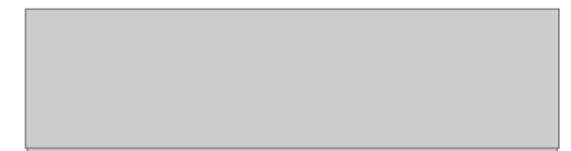
### LINEAR FLUORESCENT

D883/15HF/B	5200lm	N/A	53W	3588lm	68lm/W	15kg
D883/25HF/B	10400lm	N/A	106W	7176lm	68lm/W	15kg

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Warm white LEDs (3000K)	replace NW with WW
Switch dimming	add suffix /DIM
For 30/60° version	replace D883 with D882
Blank ends	add suffix /BE
For Network Rail specification	add suffix /NET
Opal diffuser	add suffix /X
Anti Graffiti Diffuser Upgrade	add suffix /AGD
6mm Burns Test Compliant Fybagard Diffuser Upgrade	add suffix /FY

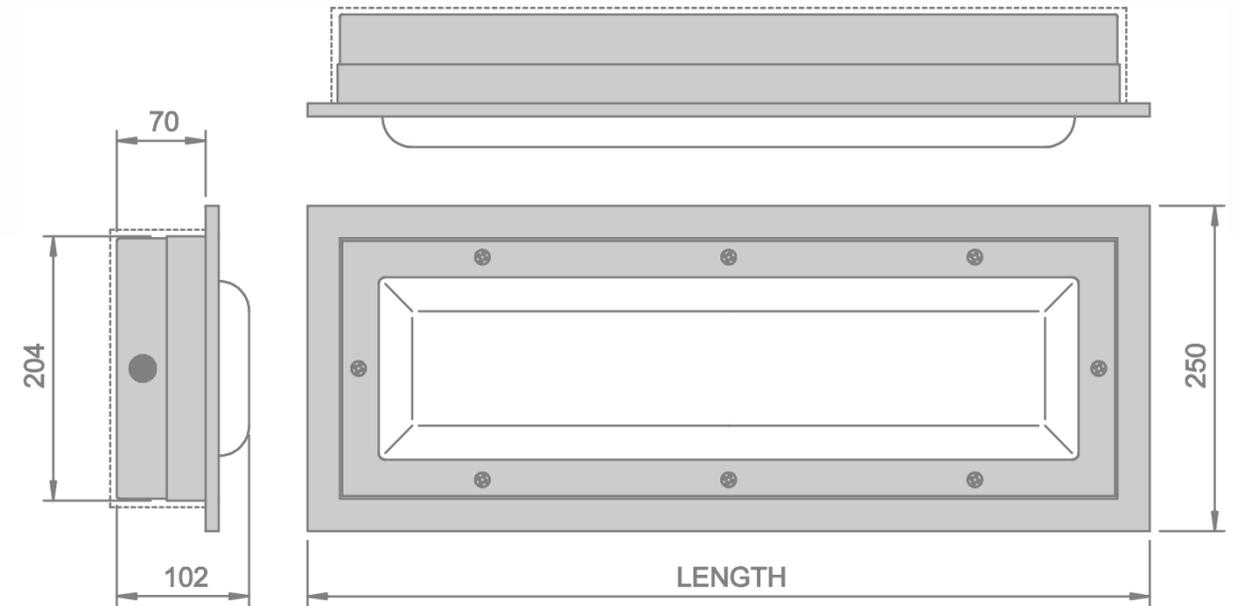
\*EM3D not available on all 2 foot (700mm) versions



# Tuscan AL

Extremely tough specialised fitting for in-cell applications.

- Specialised anti-ligature fitting for police cell applications and designed to resist extreme physical attack.
- Suitable for surface or recessed ceiling mounting.
- Heavy gauge steel body finished in white polyester powder coat.
- Polycarbonate diffuser held against gasket with tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Night light provision available.
- Provision for conduit entry in back, gaskets provided.



**FINISHES**

TEXTURED WHITE W

**LAMP OPTIONS**

**1300mm LONG**

LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/4/5000NW/XW/ALR	5000lm	4000K	43W	4402lm	103lm/W	12kg
D880/4/6000NW/XW/ALR	6000lm	4000K	51W	4932lm	98lm/W	12kg

LINEAR FLUORESCENT - CLEAR PATTERNED

D880/228T5/W/ALR	5250lm	N/A	62W	3623lm	58lm/W	12kg
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**1600mm LONG**

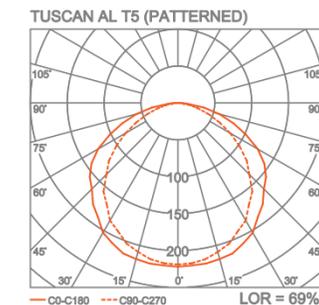
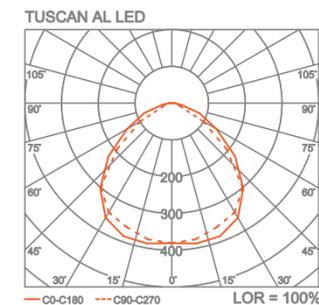
LED - OPAL	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/5/6250NW/XW/ALR	6250lm	4000K	54W	5503lm	102lm/W	15kg
D880/5/7500NW/XW/ALR	7500lm	4000K	63W	6165lm	98lm/W	15kg

LINEAR FLUORESCENT - CLEAR PATTERNED

D880/235T5/W/ALR	6650lm	N/A	74W	4589lm	62lm/W	15kg
D880/249T5/W/ALR	8750lm	N/A	106W	6038lm	57lm/W	15kg

**FITTING OPTIONS**

Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Night light	add suffix /NL
Surface body	remove suffix R
Warm white LEDs (3000K)	replace NW with WW
Anti Graffiti Diffuser Upgrade	add suffix /AGD
6mm Burns Test Compliant Fybagard Diffuser Upgrade	add suffix /FY



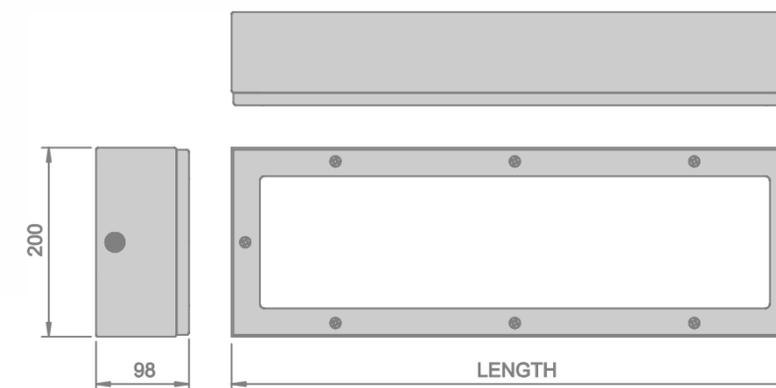


# Tuscan S12

Specialised fitting designed for subsurface rail applications.



- Designed in accordance with fire precautions for subsurface rail stations (Section 12).
- Complies with London Underground subsurface standard 1-085 utilising low smoke, zero halogen cables and control gear.
- Suitable for surface or recessed ceiling mounting.
- Heavy gauge steel body finished in black polyester powder coat.
- Toughened glass diffuser sealed into frame by silicone gasket and held in place by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.



### FINISHES

TEXTURED BLACK  
B

TEXTURED WHITE  
W

PURE WHITE  
C32

### LAMP OPTIONS

GLASS DIFFUSER

#### 700mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/2/1500NW/B/S12F	1500lm	4000K	15W	1308lm	87lm/W	7kg
D880/2/2000NW/B/S12F	2000lm	4000K	18W	1544lm	86lm/W	7kg
D880/2/2500NW/B/S12F	2500lm	4000K	22W	1871lm	85lm/W	7kg
D880/2/3000NW/B/S12F	3000lm	4000K	26W	2096lm	81lm/W	7kg

#### 1300mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/4/2000NW/B/S12F	2000lm	4000K	21W	1923lm	92lm/W	12kg
D880/4/3000NW/B/S12F	3000lm	4000K	28W	2543lm	91lm/W	12kg
D880/4/4000NW/B/S12F	4000lm	4000K	35W	3086lm	88lm/W	12kg
D880/4/5000NW/B/S12F	5000lm	4000K	43W	3742lm	87lm/W	12kg
D880/4/6000NW/B/S12F	6000lm	4000K	51W	3960lm	82lm/W	12kg

#### 1600mm LONG

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D880/5/2500NW/B/S12F	2500lm	4000K	27W	2404lm	89lm/W	15kg
D880/5/3750NW/B/S12F	3750lm	4000K	35W	3179lm	91lm/W	15kg
D880/5/5000NW/B/S12F	5000lm	4000K	44W	3858lm	88lm/W	15kg
D880/5/6250NW/B/S12F	6250lm	4000K	54W	4678lm	86lm/W	15kg
D880/5/7500NW/B/S12F	7500lm	4000K	63W	5240lm	83lm/W	15kg

### VERSIONS



D883 45°



D882 30°/60°

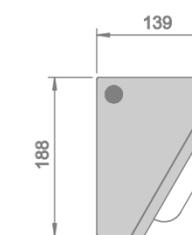
### FITTING OPTIONS

Textured white finish	replace B with W
Pure white finish	replace B with C32
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
For 45° angled version	replace D880 with D883
For 30/60° angled version	replace D880 with D882
Recessed	add suffix /R
Warm white LEDs (3000K)	replace NW with WW

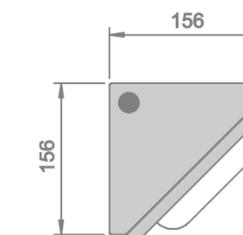
For Tuscan D89 S12 version replace D88 with D89.

\*EM3D not available on all 2 foot (700mm) versions

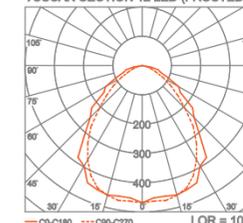
### D882 version



### D883 version



### TUSCAN SECTION 12 LED (FROSTED)



# Tuscan II



Robust weather and vandal resistant bulkhead fitting.

- Suitable for wall or cornice mounting.
- Zinc coated steel body finished in black polyester powder coat.
- Polycarbonate diffuser sealed into frame by gasket and held in place by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and ends, gaskets provided.

## FINISHES



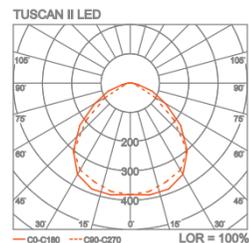
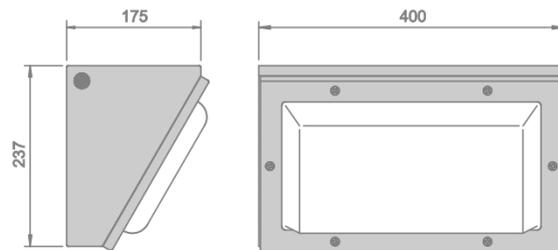
## LAMP OPTIONS

### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
D864/2000NW/XB	2000lm	4000K	18W	1790lm	99lm/W	6kg
D864/3000NW/XB	3000lm	4000K	26W	2685lm	103lm/W	6kg

## FITTING OPTIONS

Textured white finish	replace B with W
Titanium finish	replace B with C49
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Blank ends	add suffix /BE
For Network Rail specification	add suffix /NET
Warm white LEDs (3000K)	replace NW with WW
Anti Graffiti Diffuser Upgrade	add suffix /AGD
6mm Burns Test Compliant Fybagard Diffuser Upgrade	add suffix /FY



All our luminaires are tested in our factory to ensure electrical compliance.



Cus.

Versatile trunking system with a variety of options available.

- LED and linear fluorescent options.
- Dummy bodies and infill panels available.
- Each application is unique and will be catered to your requirements. For further information contact our technical sales office on +44 (0)20 8254 2022.

# Tuscan Trunking



END PANEL CONNECTOR DETAIL



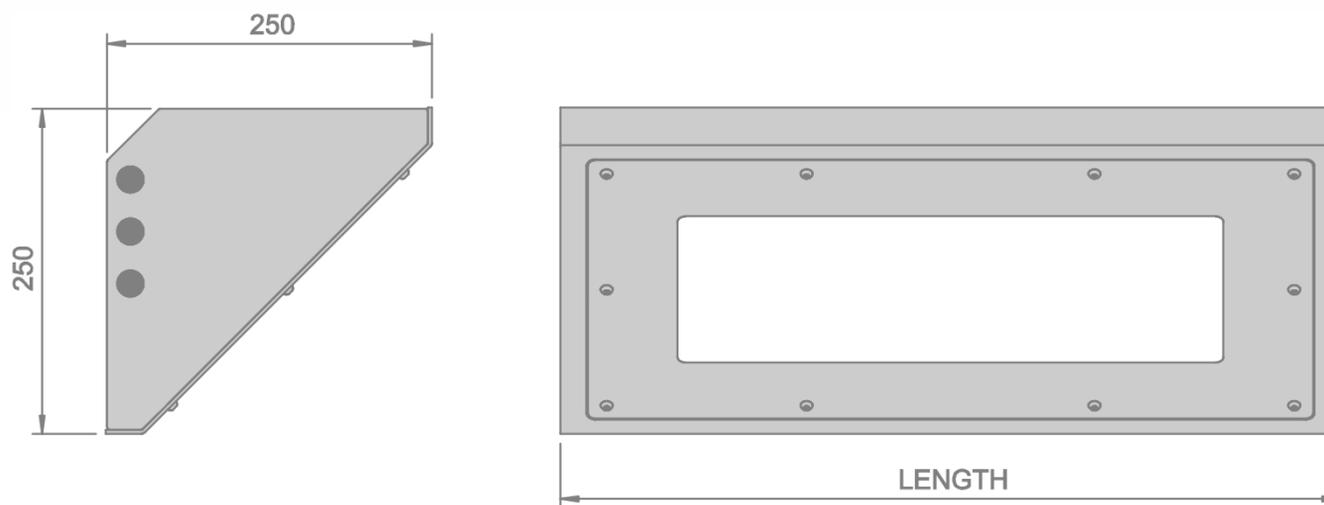
END PANEL DETAIL WITHOUT COVER

# Uni-Cell

Extremely robust HMPPS compliant cell lighting and trunking system.



- A versatile, specialist anti-ligature fitting for police and custodial cell applications with options for CCTV, ventilation, smoke detectors and speakers. For further information contact our technical sales office on +44 (0)20 8254 2022.
- Available in HMPPS Category 1, HMPPS Category 3 (standard) and police cell versions.
- Only fitting to be HMPPS Category 1.
- Suitable for cornice mounting.
- Heavy gauge zinc coated steel body finished in white polyester powder coat.
- 6mm burns test compliant Fybagard diffuser held against gasket with tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in ends, gaskets provided.



**FINISHES**

TEXTURED WHITE W

**LAMP OPTIONS**

FYBAGARD DIFFUSER

**800mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
UC3/2/3000NW	3000lm	4000K	26W	2190lm	84lm/W	18kg

LINEAR FLUORESCENT

UC3/224T5	4000lm	N/A	47W	2240lm	48lm/W	18kg
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**1100mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
UC3/3/4500NW	4500lm	4000K	39W	3285lm	84lm/W	23kg

LINEAR FLUORESCENT

UC3/139121T5SC	5600lm	N/A	63W	3136lm	50lm/W	23kg
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**1400mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
UC3/4/6000NW	6000lm	4000K	51W	4380lm	86lm/W	28kg

LINEAR FLUORESCENT

UC3/154128T5SC	7900lm	N/A	88W	4424lm	50lm/W	28kg
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**1700mm LONG**

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
UC3/5/7500NW	7500lm	4000K	63W	5475lm	87lm/W	33kg

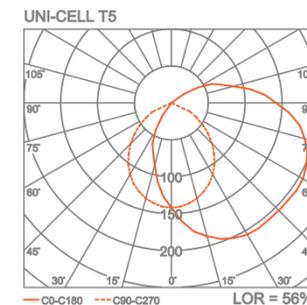
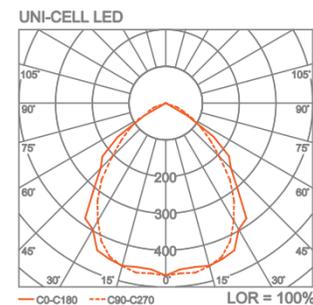
LINEAR FLUORESCENT

UC3/249T5	9800lm	N/A	106W	5488lm	52lm/W	33kg
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**FITTING OPTIONS**

Police cell version (polycarbonate diffuser)	replace UC3 with PC3
HMPPS Category 1	replace UC3 with UC1
Integral 3 hour duration emergency	add suffix /EM3
Self test 3 hour duration emergency	add suffix /EM3S
DALI 3 hour duration emergency*	add suffix /EM3D
DALI dimming/monitoring	add suffix /DALI
Switch dimming	add suffix /DIM
Night light	add suffix /NL
Other options and dummy bodies	please contact technical sales
Warm white LEDs (3000K)	replace NW with WW
Blank end plate option for black ends	add suffix /BE

\*EM3D not available on all 2 foot (800mm) versions and the T5 3 foot (1100mm) version.



# Vertigo



Elliptical surface weather and vandal resistant fitting.

- Suitable for wall mounting.
- Die cast aluminium body and hood finished in titanium polyester powder coat.
- Opal polycarbonate diffuser secured by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back, gaskets provided.

## FINISHES

<b>TITANIUM</b> C49	<b>MATT SILVER</b> C48	<b>MATT WHITE</b> C46
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## LAMP OPTIONS

### OPAL DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight
VG1/600NW/C49	600lm	4000K	10W	423lm	42lm/W	3kg
VG3/600NW/C49	600lm	4000K	10W	620lm	62lm/W	3kg
VG1/900NW/C49	900lm	4000K	14W	547lm	40lm/W	3kg
VG3/900NW/C49	900lm	4000K	14W	905lm	66lm/W	3kg
VG3/1400NW/C49	1400lm	4000K	19W	1275lm	66lm/W	3kg

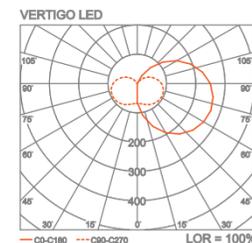
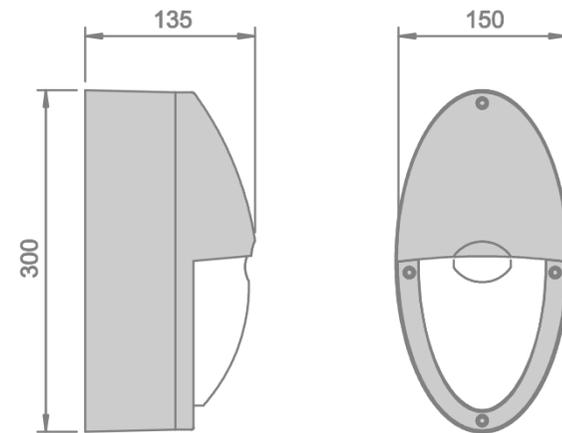
## FITTING OPTIONS

Matt silver finish	replace C49 with C48
Matt white finish	replace C49 with C46
Photocell	add suffix /PEC
Additional cable entry at one end	add suffix /H
Emergency options	please contact technical sales

## VERSIONS



VG3/



# Zelos range

Zelos is an elegant family of products for exterior applications.

Zelos Beam and Zelos Bollard are weather resistant bollards with impressive light output of 100 lm/W. Both bollards utilise specifically designed optics to provide up to 8 metre spacings on typical pathway applications (15 lux average and 0.25 uniformity).

Zelos Post Top was originally designed for railway platforms but is also at home in car parks and pedestrian pathways. It features zero upward light for efficient use in built up areas and a hinged front panel for easy maintenance. We can provide colour matched hinged aluminium posts as required.

Zelos Wall and Wall Max follow the same ethos – a compact, highly efficient luminaire for urban applications. The Wall is designed for 2-3 metre high mounting, and the Wall Max for higher 4-5 metre applications. The fittings feature best in class LOR and matched with the Zelos Post Top can be used in combination to light almost any urban environment.

For more information on the Zelos range or any of our urban luminaires please contact our customer service team on +44 (0)20 8254 2020.



# Zelos Beam



**FINISHES**



**LAMP OPTIONS**

**OPAL DIFFUSER**

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
TLSBB/1100NW/XC49	1100lm	4000K	10W	875lm	88lm/W	15kg
TLSBB/1400NW/XC49	1400lm	4000K	14W	1201lm	86lm/W	15kg

**CLEAR DIFFUSER**

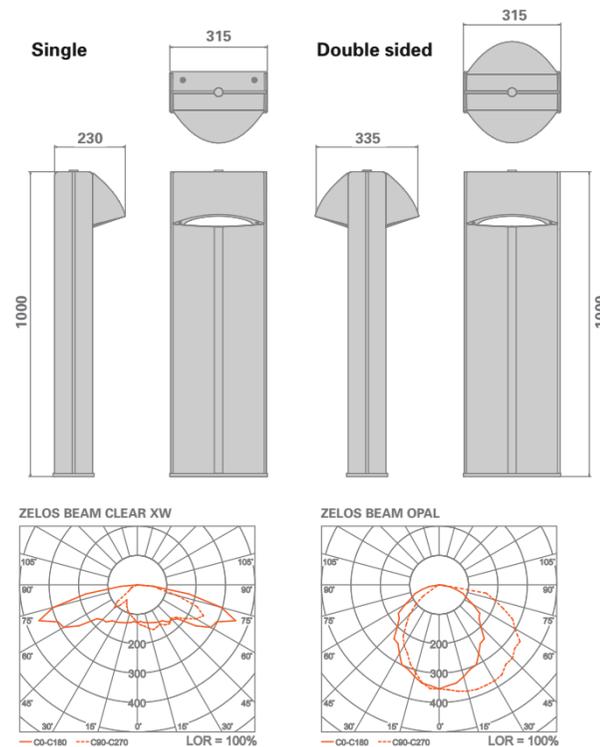
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
TLSBB/1000XWNW/CC49	1000lm	4000K	6W	600lm	100lm/W	15kg
TLSBB/1500XWNW/CC49	1500lm	4000K	10W	967lm	97lm/W	15kg

**FITTING OPTIONS**

Matt silver finish	replace C49 with C48
Matt black finish	replace C49 with C04
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Photocell	add suffix /PEC
Double sided version	add D after TLSBB
Warm white LEDs (3000K) - 1100/1400lm only	replace NW with WW

Weather and vandal resistant LED bollard with impressive light output of 100 lm/W.

- Specifically designed optics to provide up to 8 metre spacings on typical pathway applications (15 lux average and 0.25 uniformity).
- Tested to withstand crowd loading up to 1.5kN/m.
- Minimal upward light.
- Die cast aluminium body and bollard finished in titanium polyester powder coat.
- Opal or clear polycarbonate diffuser held against gasket by tamper proof screws.
- Electronic control gear on removable tray with fused plug and socket connector block.
- Root mounting brackets and base plate supplied. We recommend that a root mount is installed to ensure strength and to optimise installation.
- Optional photocell.



Our Zelos Beam and Zelos Bollard have specifically designed optics to provide up to 8 metre spacings on typical pathway applications.

**Notice**  
Vehicles and contents are left here entirely at owner's risk



**IK16**  
150J

**IP65**

Tra. Soc. Cus. Sec. Urb.

# Zelos Bollard

Weather and vandal resistant LED bollard with impressive light output of 100 lm/W.

- Specifically designed optics to provide up to 8 metre spacings on typical pathway applications (15 lux average and 0.25 uniformity).
- Tested to withstand crowd loading up to 1.5kN/m.
- Minimal upward light.
- Die cast aluminium body and bollard finished in titanium polyester powder coat.
- Opal or clear polycarbonate diffuser held against gasket by tamper proof screws.
- Electronic control gear on removable tray with fused plug and socket connector block.
- Root mounting brackets and base plate supplied. We recommend that a root mount is installed to ensure strength and to optimise installation.
- Optional photocell.



#### FINISHES

<b>TITANIUM</b> C49	<b>MATT BLACK</b> C04	<b>MATT SILVER</b> C48
------------------------	--------------------------	---------------------------

#### LAMP OPTIONS

##### OPAL DIFFUSER

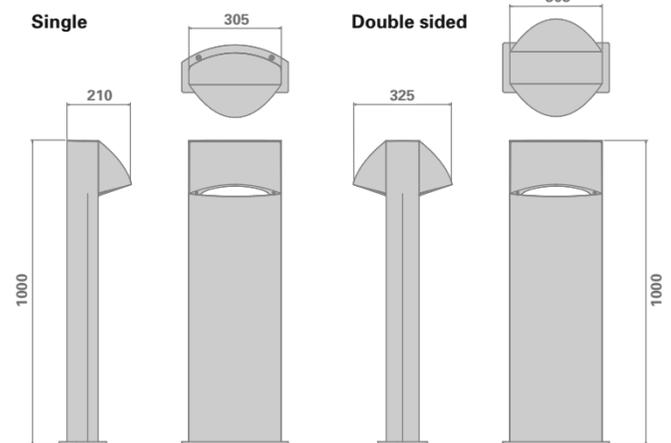
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
TLSBP/1100NW/XC49	1100lm	4000K	10W	875lm	88lm/W	15kg
TLSBP/1400NW/XC49	1400lm	4000K	14W	1201lm	86lm/W	15kg

##### CLEAR DIFFUSER

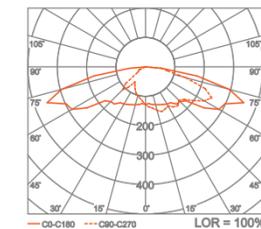
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
TLSBP/1000XWNW/CC49	1000lm	4000K	6W	600lm	100lm/W	15kg
TLSBP/1500XWNW/CC49	1500lm	4000K	10W	967lm	97lm/W	15kg

#### FITTING OPTIONS

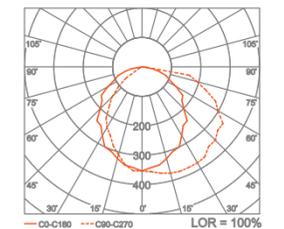
Matt silver finish	replace C49 with C48
Matt black finish	replace C49 with C04
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Photocell	add suffix /PEC
Double sided version	add D after TLSBP
Warm white LEDs (3000K) - 1100/1400lm only	replace NW with WW



ZELOS BOLLARD CLEAR XW



ZELOS BOLLARD OPAL



"Good value and great performance"  
Lux Magazine, October 2015.

For the most up to date product information and additional resources, please visit [www.designplan.co.uk/products](http://www.designplan.co.uk/products)

# Zelos Post Top



Vandal and weather resistant post top fitting with zero upward light.

- High energy efficiency fitting with zero upward light.
- Die cast aluminium body and front panel finished in titanium polyester powder coat.
- Clear toughened glass diffuser held against gasket by tamperproof screws.
- Easy maintenance fitting with hinged front panel.
- Matching 60mm and 76mm posts available.
- Electronic control gear on removable tray with fused plug & socket connector block.

## FINISHES



## LAMP OPTIONS

### CLEAR DIFFUSER

LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
TLSP/3000NW/C49	3000lm	4000K	28W	2430lm	87lm/W	7.5kg
TLSP/4000NW/C49	4000lm	4000K	39W	3240lm	83lm/W	7.5kg
TLSP/5000NW/C49	5000lm	4000K	55W	4050lm	76lm/W	7.5kg
TLSP/6500NW/C49	6500lm	4000K	88W	5265lm	60lm/W	7.5kg

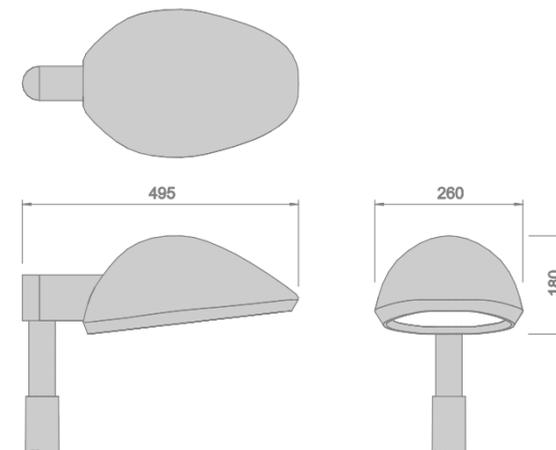
## FITTING OPTIONS

Matt silver finish	replace C49 with C48
Matt black finish	replace C49 with C04
Remote box 3 hour duration emergency	add suffix /EM3B
DALI dimming/monitoring	add suffix /DALI
Photocell	add suffix /PEC
Wall mount bracket	add W after TLSP
Double post top bracket	please contact technical sales
Other bracket and optic versions	please contact technical sales

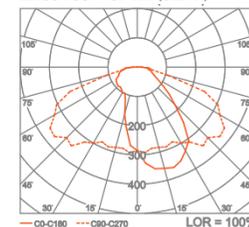
## VERSIONS



DOUBLE POST TOP WALL MOUNT



## ZELOS POST TOP LED (CLEAR)



The Zelos Post Top is a high energy efficiency fitting with zero upward light ideal for applications needing to observe the dark skies directive.



# Zelos Wall



Elegant and versatile bulkhead for wall mounted perimeter applications.

- Attractive LED specific fitting with light output of over 70 lm/W.
- Minimal upward light.
- Die cast aluminium body finished in titanium polyester powder coat.
- Frosted or opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Optional photocell.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**



**LAMP OPTIONS**

OPAL DIFFUSER

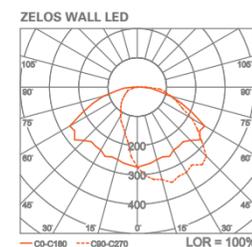
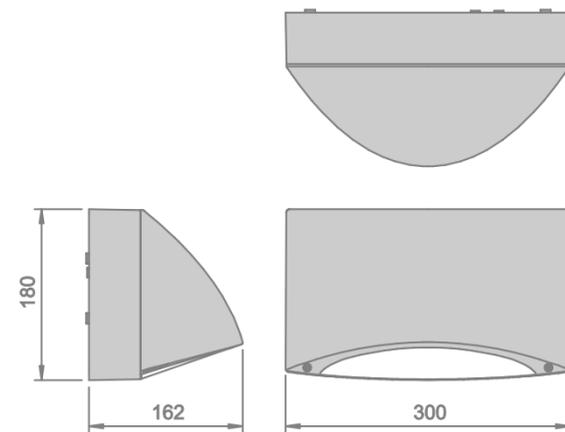
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
TLSW/1400NW/XC49	1400lm	4000K	15W	1125lm	74lm/W	3.5kg
TLSW/1900NW/XC49	1900lm	4000K	20W	1400lm	70lm/W	3.5kg

FROSTED DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
TLSW/2000NW/FC49	2000lm	4000K	15W	1340lm	89lm/W	3.5kg	HT40°
TLSW/2500NW/FC49	2500lm	4000K	21W	1672lm	80lm/W	3.5kg	HT40°
TLSW/3000NW/FC49	3000lm	4000K	29W	2010lm	70lm/W	3.5kg	HT40°

**FITTING OPTIONS**

Matt silver finish	replace C49 with C48
Matt white finish	replace C49 with C46
Matt black finish	replace C49 with C04
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Photocell	add suffix /PEC
Side entry	add suffix /HH
Top entry	add suffix /TH
Extra wide optics (supplied with clear diffuser)	add suffix /XW
Warm white LEDs (3000K)	replace NW with WW



**HT**  
Applies to standard version. For any options (e.g. EM3) and to check 50° applications please contact technical sales.

# Zelos Wall Max



Elegant and versatile bulkhead fitting for high perimeter wall applications.

- Attractive LED specific fitting with light output of over 70 lm/W.
- Minimal upward light.
- Die cast aluminium body finished in titanium polyester powder coat.
- Frosted or opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Optional photocell.
- Provision for conduit entry in back, gaskets provided.

**FINISHES**



**LAMP OPTIONS**

OPAL DIFFUSER

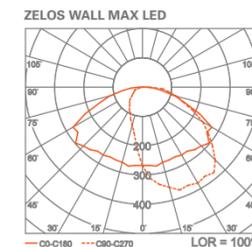
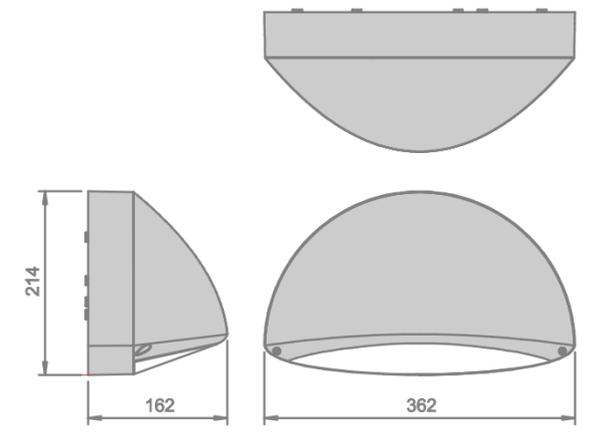
LED	Rating	Temp	Load	Lum/lm	Efficacy	Weight
TLSWM/1400NW/XC49	1400lm	4000K	15W	1125lm	75lm/W	4.5kg
TLSWM/1900NW/XC49	1900lm	4000K	20W	1400lm	70lm/W	4.5kg

FROSTED DIFFUSER

LED	Rating	Temp	Load	Lum/lms	Efficacy	Weight	HT
TLSWM/2500NW/FC49	2500lm	4000K	18W	1675lm	93lm/W	4.5kg	HT40°
TLSWM/3500NW/FC49	3500lm	4000K	26W	2345lm	90lm/W	4.5kg	HT40°
TLSWM/4500NW/FC49	4500lm	4000K	36W	3015lm	84lm/W	4.5kg	HT40°

**FITTING OPTIONS**

Matt silver finish	replace C49 with C48
Matt white finish	replace C49 with C46
Matt black finish	replace C49 with C04
Integral 3 hour duration emergency	add suffix /EM3
DALI dimming/monitoring	add suffix /DALI
Photocell	add suffix /PEC
Side entry	add suffix /HH
Top entry	add suffix /TH
Extra wide optics (supplied with clear diffuser)	add suffix /XW
Warm white LEDs (3000K)	replace NW with WW



**HT**  
Applies to standard version. For any options (e.g. EM3) and to check 50° applications please contact technical sales.

## Paint options

Our polyester powder coat finishes come in a range of colours suitable for all applications. Each product page lists the standard and optional colours the fitting is available in, but bespoke colours are available on request.

For more information please contact our customer service team on +44 (0)20 8254 2020.



**C49 - TITANIUM**



**B - TEXTURED BLACK**



**W - TEXTURED WHITE**



**C48 - MATT SILVER (RAL 9006)**



**C04 - MATT BLACK**



**C46 - MATT WHITE (RAL 9016)**



**C31 - SMOOTH WHITE**



**C32 - PURE WHITE (RAL 9010)**



**C44 - SMOOTH CREAM (RAL 9001)**



**C45 - SMOOTH SILVER (RAL 9007)**

## Diffuser options

Our luminaires come with a variety of diffuser options for different environments. Clear, prismatic and opal are the most common but we also offer specialist diffusers for unique environments.

For more information please contact our customer service team on +44 (0)20 8254 2020.



**PRISMATIC**



**LINEAR PRISMATIC**



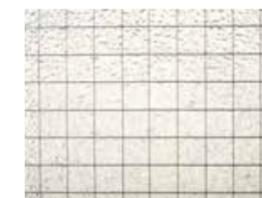
**FROSTED TEXTURED**



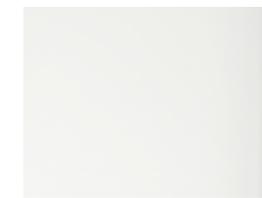
**TEXTURED**



**LINEAR OPAL PRISMATIC**



**FYBAGARD**



**OPAL**

The majority of our diffusers are extruded or injection-moulded polycarbonate, or glass for some applications.

We also offer Fybagard for the toughest environments, which is made from 6mm translucent GRP reinforced with georgian wire. It is fire resistant to BS 476 Part 7 Class 1 (surface spread of flame).

## Technical services



### Photometry

At Designplan we are proud to have our own in-house photometry which enables us to rapidly prototype new and bespoke luminaires.

We were the first luminaire manufacturer in the UK to use a near field imaging goniophotometer, which is unlike the arm and mirror structure of traditional systems. A major advantage of our approach is that by using an array of imaging CCDs to convert the near-field luminance (Cd/m<sup>2</sup>) of the luminaire to a far-field luminous intensity (Cd) distribution, it produces absolute lumen values.

This means our customers know the actual luminous flux emitted by the luminaire and do not have to convert a relative value against a notional output from the light source. From this data we produce our polar curves and standard photometric files in EULUMDAT or IESNA format.

We can supply photometric files as required. For more information please call our technical sales team on +(0)20 8254 2022.



### Our testing laboratory

Product testing is a vital element in the design of our luminaires. We continuously upgrade and improve our test laboratory. Our constant investment helps us to innovate our lighting solutions both in terms of performance and environmental impact.

Our in-house testing facilities include:

- Impact resistance (IK rating) - **Now enhanced**
- Ingress protection (IP rating) - **Now enhanced**
- Product life - **New and improved**
- High temperature - **New and improved**
- Accelerated corrosion
- Photometric.

We also have selected products independently tested. This ensures we attain all relevant and essential accreditation for extreme environments and the specialised sectors we supply.

For more information, please visit [www.designplan.co.uk](http://www.designplan.co.uk)

### Lighting design

With a wealth of experience in creating lighting designs for a variety of projects and sectors, our technical sales team can model your building virtually - recommending a combination of Designplan products to suit your needs.

Services include:

- Consulting with the design team to offer best practise recommendations and solutions.
- Providing lighting designs from industry standard platforms such as Relux or Dialux, which can be subsequently uploaded into our customer's own designs.
- Supplying technical and photometric performance details for Designplan products.
- Offering advice relating to variations to standard products, and bespoke solutions.
- Providing BIM models of our fittings.
- General technical advice and support for Designplan products.

To contact our technical sales office and discuss how they can assist with your lighting project please call +44 (0)20 8254 2022.

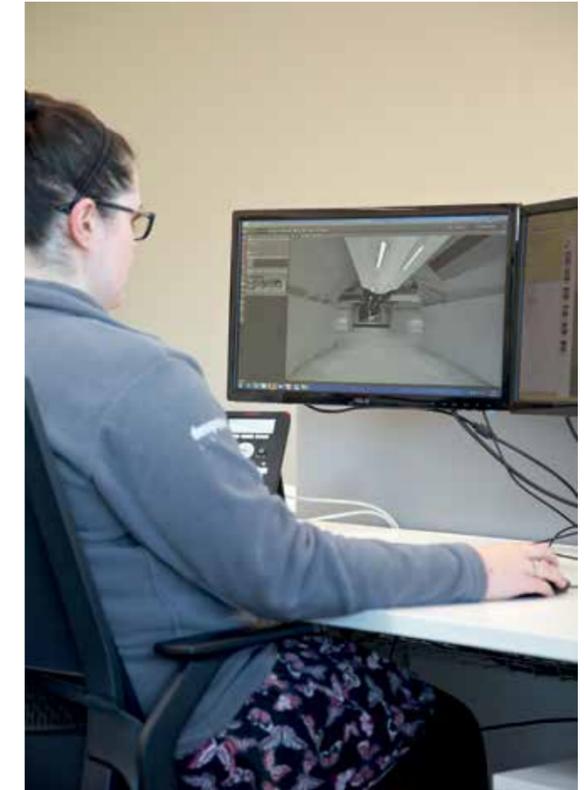
### CPDs

We offer various accredited CPDs which can be carried out at your facility or our premises.

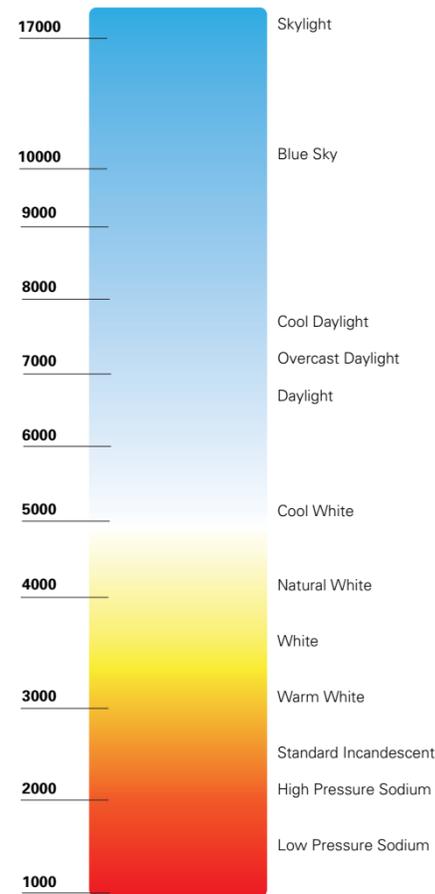
Alternatively come and take our factory tour and see how robust luminaires are made.

For more information contact our customer services team on +44 (0)20 8254 2020.

For more information, please visit [www.designplan.co.uk](http://www.designplan.co.uk)



# Colour temperature



Colour temperature defines the appearance of a light source, from cool through to warm. It is referred to by its Correlated Colour Temperature (CCT) and is rated in degrees Kelvin (K). Warm sources have lower values such as 2,700K compared with cool sources, typically 4,500K and above.

Warm LEDs are typically used where a relaxed atmosphere is needed, such as hotels, restaurants and domestic environments.

A cool appearance is often preferred for commercial locations such as offices and factories. In particular water features, glass and stainless steel often respond better to a whiter light source.



TEMPERATURE	EFFECT	APPLICATION
Warm white 3000K	Friendly, personal	Reception areas, meeting rooms
Natural white 4000K	Inviting	Classrooms, railway stations
Cool white 5000K	Neat, clean, efficient	Housing, hospitals, car parks

# Energy management and emergency control gear

Energy management is essential for any environmentally conscious lighting design, as well as a standard requirement in Part L of the Building Regulations.

To see an example of how daylight monitoring can be of benefit, please go to page 25.

Designplan can supply an energy efficient solution for any application; including dimming, presence-detection switches and daylight sensors. We can also offer emergency options that are either integral, remote or stand-alone systems.

All of Designplan's energy management solutions are flexible, efficient, and easy to install, without ever compromising on user safety, lighting quality or the integrity of the luminaire.

Below is an overview of some of the options which Designplan offers.

## Sensors and switching

- **MWSB – Integral Microwave Sensor (Basic)** Automatic switching OR dimming of luminaires based on occupancy.
- **MWSA – Integral Microwave Sensor (Advanced)** Increased functionality plus automatic switching AND dimming of luminaires based on occupancy.
- **PEC – Integral Photo Electric Cell** For exterior fittings to control the switching between dusk and dawn.
- **DLS – Daylight Sensors** Adjusts the output of the luminaires to maintain the desired light level.
- **SC – Separate Circuit** A number of LEDs or lamps can be switched via a sensor or switch.
- **CF10 – Corridor Function** This allows the fitting to dim to 10% when combined with an integral Microwave Sensor or another external sensor or switch.

## Digital dimming

- **DALI – Digital Addressable Lighting Interface** For dimming, control and monitoring of driver or ballast, LED or lamp faults.

## Analogue dimming

- **DIM – Switch Dim** For simple control via push to make switch.

## Emergency

- **EM3 – Maintained** To control the entire array in emergency mode for a 3 hour duration.
- **NM3 – Non-Maintained** For exit signs or similar fittings that are just emergency fittings.
- **EM3S – Auto or Self Test** The unit continually monitors the battery and lamps and signals faults via a bi-colour LED. It also carries out weekly function tests and an annual service life test.
- **EM3D – Emergency DALI** Allows the battery and lamp to be monitored and tested via a DALI system.
- **COR - Change Over Relay** Allows the fitting to switch between mains electricity and an emergency back up power supply.

## Continuous Improvement

New controls are in development including wireless operation, power over the ethernet and others.

Please keep in contact with us, and monitor the news page of our website, to keep up to date with our latest product innovations.

# Retrofitting LEDs



## Example ownership savings\*

Our **QuadRetro** service pack, detailed on pages 190 and 191, enables you to upgrade your existing Quadrant 2D luminaire to an LED version in a matter of minutes. The result is a lower total cost of ownership (TCO) achieved through reduced power consumption and less frequent lamp replacements and general maintenance. These savings include:

**60% reduction in energy**

**30% reduction in maintenance**

## Cost saving changes

In every aspect of design and manufacturing, we aim to produce the most environmentally responsible and cost-effective lighting solutions that stand the test of time.

Our LED products come with a standard 5 year guarantee which covers both the LED array and the driver (some LED products also come with full product warranties). However, with the increasing emphasis on reducing our carbon footprint and energy usage, we understand the need for upgrading existing fittings with the latest LED technology.

Designplan's retrofit LEDs offer a simple solution to meeting energy-reduction legislation and reducing overall costs. Our retrofit LEDs are already used successfully across the sectors we work in and the benefits of retrofitting include:

- ✓ **Reduced energy usage**
- ✓ **Improved luminous efficacy**
- ✓ **Low total cost of ownership**
- ✓ **Little or no maintenance**
- ✓ **Quick and simple to install**

With very low cost of ownership, the initial investment will pay for itself several times over before the LEDs need replacing, with usual pay backs of less than one year in some applications.

## Retrofit packages available

We offer standard retrofit packages for a number of our most popular luminaires including:

- ✓ **Quadrant (see pages 190 and 191)**
- ✓ **Quadring**
- ✓ **Gemini**
- ✓ **Prison monitor**
- ✓ **Tuscan range**

We can also retrofit into many other Designplan fittings. All our retrofitted luminaires are BS EN 60598 compliant. You will also have the added peace of mind of knowing that all replacement parts have been specifically designed and tested by the original manufacturer.

## Long lasting quality

We believe we offer the most efficient and well-engineered retrofit LED gear trays on the market. All fittings include optimum thermal management, as well as high quality LED and driver components. To ensure maximum results, additional diffuser options are also available for greater efficiency, less glare and improved light transmission and flashing.

## Easy installation

Retrofit lighting from Designplan couldn't be easier. Our LED lamps can be simply installed into existing fittings – as simple as replacing a lamp, and achievable in just a few minutes.

## Control systems

Additional savings can be made using our energy management solutions, please see pages 25 for an example and 269 for the lighting control options available.

For further information please go to [www.designplan.co.uk](http://www.designplan.co.uk) or call us on +44 (0)20 8254 2020.



1. Isolate fitting and unscrew diffuser.



2. Remove diffuser.



3. Remove lamp.



4. Unscrew gear tray.



5. Unplug slip-plug and remove gear tray.



6. Connect new gear tray to slip plug.



7. Screw in gear tray.



8. Screw on diffuser.

\* Cost of ownership of a 1400lm **QuadRetro** service pack and a standard 2D lamp (28W) over a 5 year period.

### TECHNICAL INFORMATION

**Operational life:** LED gear tray: 50,000 hours. 2D 28W lamp: 10,000 hours. **Total circuit watts:** **QuadRetro:** 15W. 2D fitting: 38W (28W lamp).

### PRODUCT COSTS

**QuadRetro** (1400 lm): £60\*. 2D 28W lamp: Cost £6\*. \* Prices correct at May 2016 (average cost for 2D 28W lamp).

### ELECTRICITY COSTS

Assumed cost per unit £0.12p (May 2016).

### ASSUMPTIONS

**Average daily use:** 11 hours (14 hours in autumn/winter and 8 hours in spring/summer). **5 year operation:** 20,075 hours (11 hours x 365 days x 5 years). **Maintenance call outs:** Cost to replace a light fitting (lamp not included) = £37. Source: Which? 20 July 2012 <http://local.which.co.uk/advice/cost-price-information-electricians>

### CALCULATIONS

**Maintenance:** **QuadRetro:** 1 x gear tray, 0 replacements, 0 maintenance call outs.  
2D 28W lamp: 2 replacements, 2 maintenance call outs.  
**Energy:** Total circuit watts x operation hours x energy cost / 1000 = 5 year running cost.

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