

Welcome to the definitive guide to designing and specifying architectural LED lighting. ACDC are an LED design and innovations company, working with the most ground breaking and innovative technologies. We are at the forefront of the LED lighting industry, and our latest products are providing lighting performance which even exceeds the capabilities of traditional light sources. ACDC are revolutionising the lighting industry, by designing award winning, energy efficient, long life lighting solutions, which were previously inconceivable.

Many of our products have been developed in conjunction with some of the world's top and most visionary lighting designers and through careful consultation, we have been able to create a range of products which satisfy the demands of your projects both today and in the future. We would like to thank these customers for their foresight, trust and innovative ideas, without whom many of the products presented here would not have been possible.

It has not only been important to design products which are aesthetically pleasing and have solid applications, but ones which also continue to perform throughout their long lifetime. Construction of test facilities has therefore been critical for thermal and IP testing to guarantee optimum performance for all products, along with further investment in the production capability to enable consistent high quality product manufacture.

In producing this guide we aim to present a portfolio of LED products for use in many varied applications, together with product information and a technical background on LEDs. In addition our sales and technical support teams are here to help you and as always, to offer any design assistance for any project specific requirements you may have.

We hope that the information is of use and we look forward to hearing from you soon.

ACDC

THE DEFINITIVE GUIDE TO DESIGNING AND SPECIFYING ARCHITECTURAL LED



www.acdcighting.co.uk



ACDC IS WHOLLY COMMITTED TO CREATING THE MOST INNOVATIVE AND REVOLUTIONARY PRODUCTS

ACDC Lighting Systems are based in Barrowford, Lancashire, UK and the company designs and manufactures specialist long life LED and Cold Cathode lighting solutions. Our professional team offers technical and design advice to architects, engineers and lighting designers worldwide.

Since the company's inception with a debut on the BBC's Tomorrows World programme back in the 1970's, ACDC have been committed to innovation and design. Of course the company's original strength laid with long life cold cathode lighting, but in more recent times a significant interest and investment in LED technology has led the company into an exciting and rapidly developing market.

In 2001, ACDC were approached by Lumileds Lighting (a joint venture between Philips and Agilent technologies) with an incredibly bright LED light source which was truly groundbreaking. This development was significantly brighter than previous LED outputs, potentially opening the door to the architectural lighting market. Significant also was the roadmap for the future, with the potential to eclipse many traditional light sources, both in

terms of power consumption and light output. Lumileds were looking for a number of relatively small yet innovative lighting manufacturers who were able to take the product to market within a quick timeframe and unleash the products potential to the world. ACDC's understanding of architectural lighting and developing high specification project solutions made the company an ideal partner for development, and the rest is history.

In 2004, the company's dynamic group of directors Gareth Frankland, David Horsfield and Thomas Bray purchased the company as part of a successful management buy out, a move which further focused ACDC on developing into a major player in the LED field. By 2009, the company had moved into a new 30,000 sq ft purpose built office and manufacturing facility, with the aim of continuing their rapid expansion. ACDC currently has distributors in over 30 different countries, from Ireland to Iceland; Australia to America, and our export business represents around 50 percent of the company's business. ACDC are now a globally recognised brand working on many of the world's most prestigious and luxurious projects, providing outstanding products and service to designers across the world.



Our flexibility in production, service and design provide an excellent mix of architectural design and engineering knowledge. The quality of our products is often understated, but in fact the quality of ACDC products is significantly better than any other LED lighting manufacturer, not only through careful quality control and manufacturing, but also through design, specification and procurement, to the highest possible standards. Many other manufacturers have chosen to source cheaper products from the Far East, only to slide into the trap of poor LED and fitting quality, with disappointing lifetime results. ACDC continue to maintain the highest quality standards, manufacturing and assembling our products in the UK, delivering a product of outstanding quality, not only at initial installation, but also throughout the lifetime of the product.

ACDC are a market leading manufacturer, and work only with the latest LED technologies, enabling us to view, test and design with these products prior to their launch to market, and to create the most innovative and revolutionary products. In 2008, ACDC launched the award winning Evolution, a product which is revolutionising the industry with it's halogen eclipsing performance. The product represents LEDs coming of age, and has received great acclaim the world over. Several projects have already been completed, including the Sheraton Hotel in Istanbul, further strengthening the company as an architectural LED market leader.

The company is wholly committed to developing new and exciting products and in the coming years our focus on architectural lighting will become more and more apparent.

ACDC's approach to LED's has always been to develop fittings around the light source itself rather than just fit them into existing products. Our design philosophy is to challenge what is expected, and to push the boundaries of technologies and design, to develop products which are not only well engineered, but also aesthetically brilliant.

ACDC TIMELINE «««

Year

1978	ACDC Develop worlds first electronic control gear for cold cathode lamp
1994	Company bought by Standel Dawman engineering group and focus on establishing ACDC as one of the world's largest manufacturers of cold cathode lighting
1998	Trafford Centre, Manchester, a £1 million order is completed, closely followed by Burj Al Arab, Dubai
2001	ACDC partners up with Lumileds and launch groundbreaking range of LED based products
2002	Launch of new range at 100% Design
2004	Successful management buy-out by Gareth Frankland, David Horsfield & Thomas Bray
2006	Over 40 distributors worldwide, establishing ACDC as a truly global brand
2008	ACDC move to purpose built 30,000 sq ft new factory and offices
2008	Evolution launched to revolutionise the lighting industry, winning several awards along the way
2009	Burj Tower, Dubai; the worlds tallest building completed with many ACDC groundbreaking new products

»»» ACDC LED - INNOVATION BY DESIGN

Our approach to LEDs and lighting is different, completely new, focusing on all aspects of the package, not just the luminaires. In fact, we have not only developed a broad portfolio of revolutionary new LED fittings, we have also developed a whole new range of electronic drivers, enabling a myriad of applications and designs to be achieved, making your design a reality.

OUR DESIGN PHILOSOPHY

The high power LED is in its own right a truly groundbreaking solution, but the products developed around the LED can be equally as innovative and new, through careful design. Our commitment is to design and develop fittings which were never previously conceivable, offering long life and energy savings whilst being compact and aesthetically pleasing to the end user. Our approach is to develop fittings around the actual light source itself, rather than purely incorporating LEDs into existing fittings or designs. It is only by focusing on this that truly new and innovative ideas are created. We are constantly pushing our boundaries in terms of design, seeking to achieve smaller, sleeker, more efficient and aesthetically pleasing fittings than previously designed. We work closely with several world leading lighting design practices, identifying the relative merits and benefits of different designs and concepts to develop products which are both beautiful and practical.

conductive material, to diffuse this heat. The luminaire design therefore forms a critical part of lifetime performance of the LED,

The ACDC Design team all have strong engineering backgrounds, along with a wealth of experience in the effective thermal design of LED luminaires. The team utilise complex thermal management software, which analyses thermal paths and identifies the expected junction temperature of the LED, in the necessary environment. Thermal testing ovens are also used to measure luminaire performance as part of design, ensuring the solutions offered by ACDC, will deliver their expected lifetime performance.

LED Selection

Today, there are many LED sources available, but the performance and quality of these products can vary dramatically, impacting seriously on the output and lifetime operation of the luminaire. ACDC only work with the most reputable LED manufacturers, based in Europe and the USA. Even still however, there are significant differentials within these company's ranges, which must be researched and tested before they can be incorporated into an ACDC product.

Obviously lifetime performance is critical, but two other key parameters are the colour temperature and consistency, along with light output from the LED.

»»» WE ARE ONE OF THE ONLY MANUFACTURERS TO PRODUCE PHOTOMETRIC DATA FOR ALL OUR PRODUCTS

CRITICAL DESIGN FACTORS

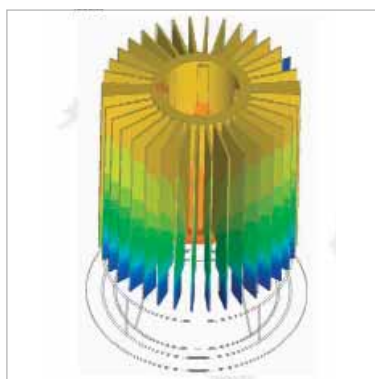
There are several key factors to successful LED luminaire design; all of which are equally important in creating a winning solution. If any element is not satisfactorily designed, then the product will either fail in terms of lighting performance, lifetime and application.

Thermal Management

The LED source has the potential to be a long life product, providing the junction temperature at the centre of the LED remains within the LEDs performance specifications. The LED source on its own is not equipped with enough material or surface area to dissipate the heat away from the junction point, and therefore this must be bonded to another thermally

- Colour Temperature and Consistency

Traditionally LEDs have had a very cold white hue, with poor colour rendering, but the LED sources of today are capable of delivering very warm colours with excellent CRI. This is an exciting development, although too often products are released by LED manufacturers before colour consistency performance is at an acceptable level. Although a manufacturer may be able to demonstrate a single LED with outstanding performance, too often production volumes do not deliver the same results, and colour consistency is poor. Before an LED is selected for use by ACDC, larger volumes of LEDs are tested to ensure continuity in greater quantities.



»»» LED TECHNOLOGY GALLOPS ON AT AN INCREDIBLE PACE AND BY WORKING WITH ACDC, YOU ARE WORKING WITH A COMPANY AT THE FOREFRONT OF LED TECHNOLOGY



- Light Output

Too often, an LED will be specified as 1 Watt or 2 Watts, when in fact this bears no impact on the actual light output from the light source itself. The Rebel LED for example is available from Lumileds in several different formats, ranging from 40 lumen parts, right up to 70 lumen parts, all capable of operating up to 2 Watts! Whilst this is very confusing, it is critical that the lighting designer specifies either the wattage and expected output, or the efficacy of the LED, so that integrity of their design is maintained.

ACDC only work with the brightest LED sources available, and are one of the only manufacturers to produce photometric data for our products, along with LED performance data sheets which are updated on a regular basis. Our approach is transparent, and enables designers to work with the latest technologies, and information.

Optical Design

The latest generation of high flux LEDs generally deliver a very wide light distribution which must be harnessed for the LED to deliver a more focused and powerful beam. There are several methods of achieving this, the most efficient of which is a collimating optic. As the LED source is relatively cool, a optical grade polycarbonate optic can be utilised to focus the beam to the necessary angle.

ACDC utilise only the most efficient optics available usually delivering around 90 percent efficiencies, and the design team are consistently researching new optical designs and solutions which can be incorporated into our products. In certain circumstances, such as the Evolution LED downlight, a suitable optic did not exist, and the design team have developed solutions for a specific product solution. This involves significant research and testing, along with specialist tooling and manufacturing to design and develop completely new optical solutions, which give the lighting designer the flexibility and performance required.

»»» OUR AIM IS TO CHALLENGE WHAT HAS GONE BEFORE

Quality Materials & Finishes

Once the physical design is complete, sourcing the highest quality materials forms a critical part of the design. The design team works closely with our procurement and manufacturing departments to source only the highest quality materials and components, enabling ACDC to manufacture products which are significantly better than many other products available. We only utilise the finest 316 Stainless steel, 6082-T6 aluminium, and other materials of the highest quality to deliver a truly world class product. The manufacturing specification from design is also extremely tight, so the components are machined to a precision level, and the quality and accuracy of the final housing is of the highest order.

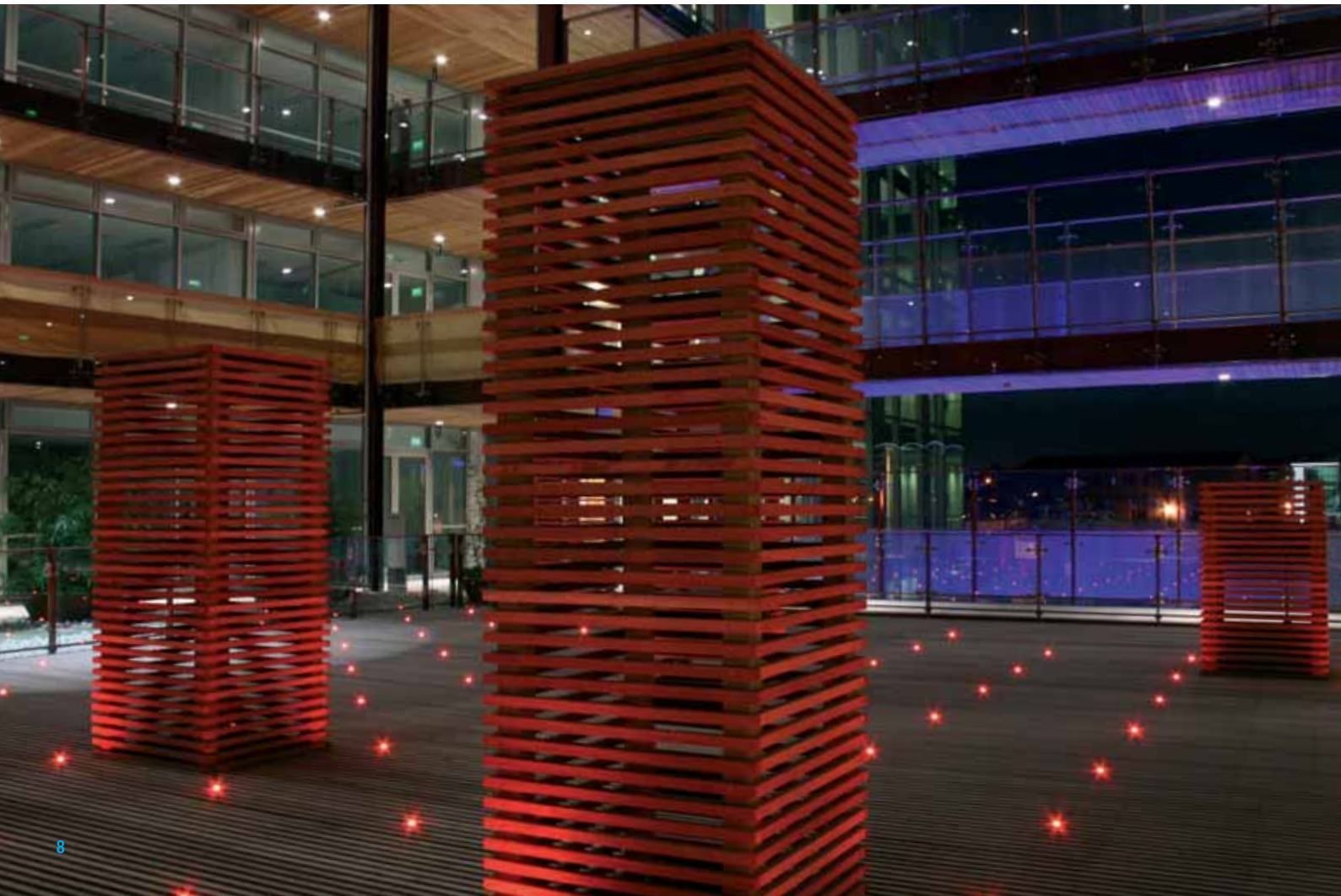
Aesthetic Excellence

ACDC are fortunate to work with many of the worlds top lighting designers, including companies such as Speirs & Major, Maurice Brill Lighting Design, DPA, Kondos Associates and many more. We work very closely with these companies when developing products, initially researching the idea or concept, but also receiving feedback on early prototypes and final designs, to ensure the final product is full considered and evaluated.

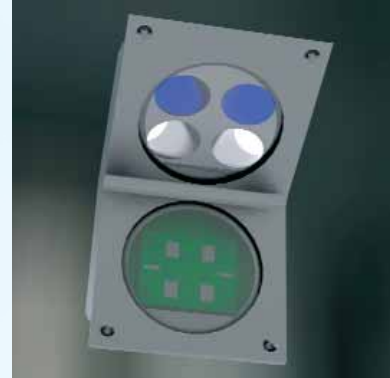
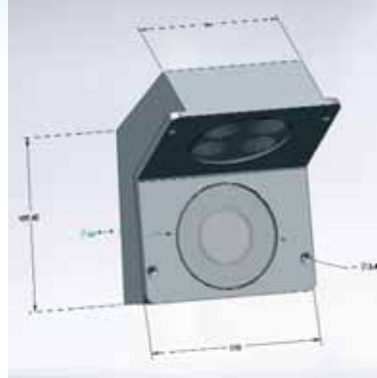
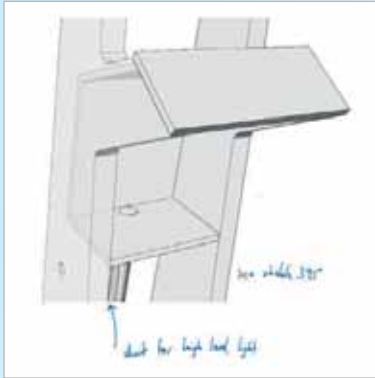
Form does indeed follow function, however the ACDC design team are wholly committed to designing products which not only perform their initial function, but luminaires which are both innovative and aesthetically stunning. Our aim is to challenge what has gone before, both in terms of aesthetic and engineering, and by doing this, we are able to create beautiful LED fittings, which are truly outstanding.

Flexible Driver Solutions

Driver technology is equally important, with drivers specially designed to maximise the output of the LEDs while restricting their operating current. ACDC are constantly working with the latest technologies and were one of the first companies to develop the 1-10 volt dimmable LED driver. We now offer more than 15 different drivers including DMX and mains controls and emergency and compact drivers for on board operation. LED technology gallops on at an incredible pace and by working with ACDC, you are working with a company at the forefront of LED technology.



»»» PROJECT BASED DESIGN SOLUTIONS



Although the ACDC product portfolio covers many different applications, the company is well equipped to handle large volume project specials. These can take the form of minor tweaks to existing products, major redesigns or even a completely new concern, the ACDC design team has the engineering experience and knowledge to manufacture the most challenging of project based solutions. Providing the quantities are larger than 50 or so luminaires, the design time and machine setup cost can often be absorbed. Similarly, if a concept is either impossible or unachievable, ACDC will give you an immediate and honest response straight way, rather than waiting for the project to commence.

There are several levels of support which can be offered by our design engineers, aimed at assisting project specific designs or requirements.

Design Meetings & Discussions

The ACDC team are more than willing to attend design meetings and discussions so that we gain a true understanding of the project requirements and design intent. This can be done either in person, by telephone, or even by web link, which is especially beneficial on some of our overseas projects.

CAD Design

The Solidworks CAD package enables ACDC to not only design project solutions, but we are able to produce 3D images, 3D videos and photograph quality colour renderings. These become particularly important tools for the designer, beneficial in demonstrating the design or concept to their client. They can also save on design time and costs, often reducing the requirement for prototypes.

Rapid Prototyping

The outstanding quality of the CAD renderings often negate the requirement for prototyping, however ACDC can manufacture prototypes to give a 1:1 scale model of the product concept. This can often be carried out using plastic based materials, enabling us to deliver prototypes within 1-2 weeks, once the initial design is agreed. This service can be extremely beneficial to clients and designers, to assist with the on site co-ordination and design.

Final Prototyping & Site Demonstrations

Of course, final site mock ups can be developed if required, although these can often be expensive if the quantity is small, and the tooling or setup time significant. They can however be particularly useful if the concept is very specific or complex, and the time and money spent on final prototyping can have a significant impact on delivering a project in line with the design intent.



THE OUTSTANDING QUALITY OF THE CAD
RENDERINGS OFTEN NEGATES THE NEED
FOR PROTOTYPING

SACKLER CROSSING, ROYAL BOTANICAL GARDENS, KEW, LONDON
SPEIRS & MAJOR.

AWARDS: SPECIAL PROJECTS AWARD, LIGHTING DESIGN AWARDS (UK) 2007

AWARD OF DISTINCTION, INTERNATIONAL ILLUMINATION DESIGN AWARDS 2007



COLD CATHODE & LED INNOVATIONS

Case Study - Sackler Crossing

LIGHTING DESIGNER

Speirs & Major, London, UK



SUMMARY

The lighting of the Sackler Crossing at the Royal Botanic Gardens, Kew enhances the experience of this elegantly designed structure after dark. The S shaped bridge designed by John Pawson Architects floats just above the surface of the lake playing with solidity and transparency. Constructed on a concealed steel frame the deck consists of 100mm granite planks with 30mm solid bronze cantilevered vertical uprights providing the balustrade. The gentle S shape allows the crossing to have many facets from giving it the appearance of it being solid and then transparent when viewed from on the bridge or from when viewed from afar. The bridge reflects in the water of the lake, but also the water is reflected in the bronze of the uprights. The appearance of the bridge constantly changes.

DESIGN BRIEF

The lighting was sensitively handled in relation to the context of the gardens. As the Royal Botanic Gardens remains mainly dark at night, the bridge softly shimmers in the darkness giving a moonlit effect and reflects in the water of the lake. The crossing was not seen in isolation with a low level floodlighting to specimen trees on the adjacent island creates visual interest and focal point in the landscape allowing the bridge context after dark.

LED DESIGN SOLUTION

998 discreet custom high output white LED fittings are recessed in the granite planks of the bridge deck at either side, between each bronze upright gently washing light up their inner surfaces. The fittings were developed with the light emitting diodes set low down in the fitting to minimise the visibility of the light source and an additional frosted glass front top plate eliminated any bezel being seen. The fitting has very clean and crisp appearance that compliments the minimal design of John Pawson.

The LED uprights were developed with electrical wiring loom and plug and socket arrangement to aid the installation eliminating the need to wire each fitting. The final specification of the fitting were confirmed after prototyping both the fitting and installation method with careful consideration taken over the selection of LEDs in regard to colour appearance and the finish of the additional glass front top plate.

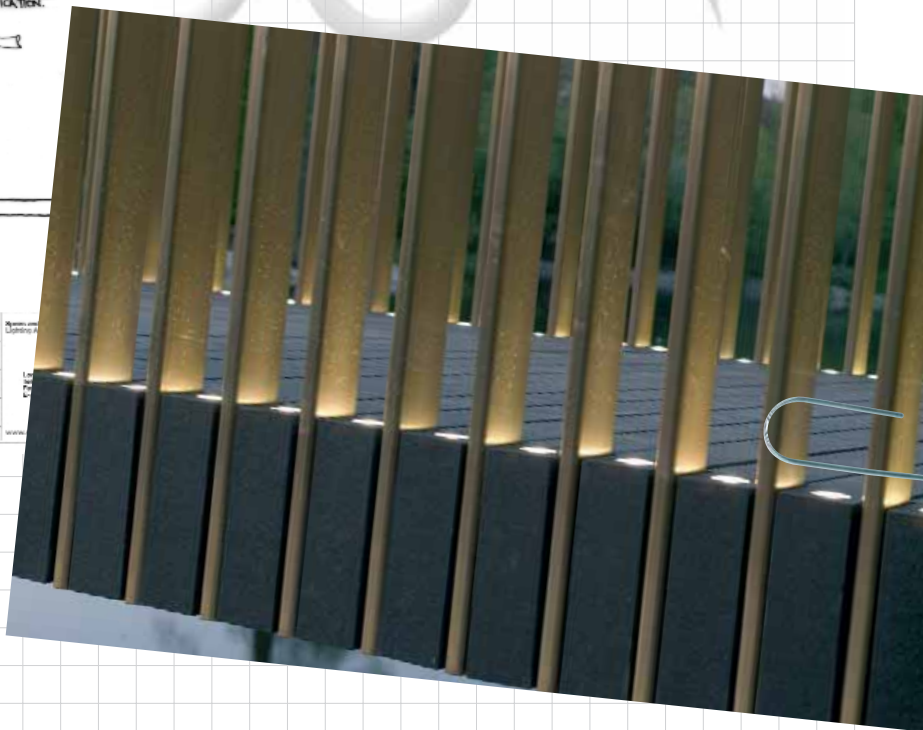
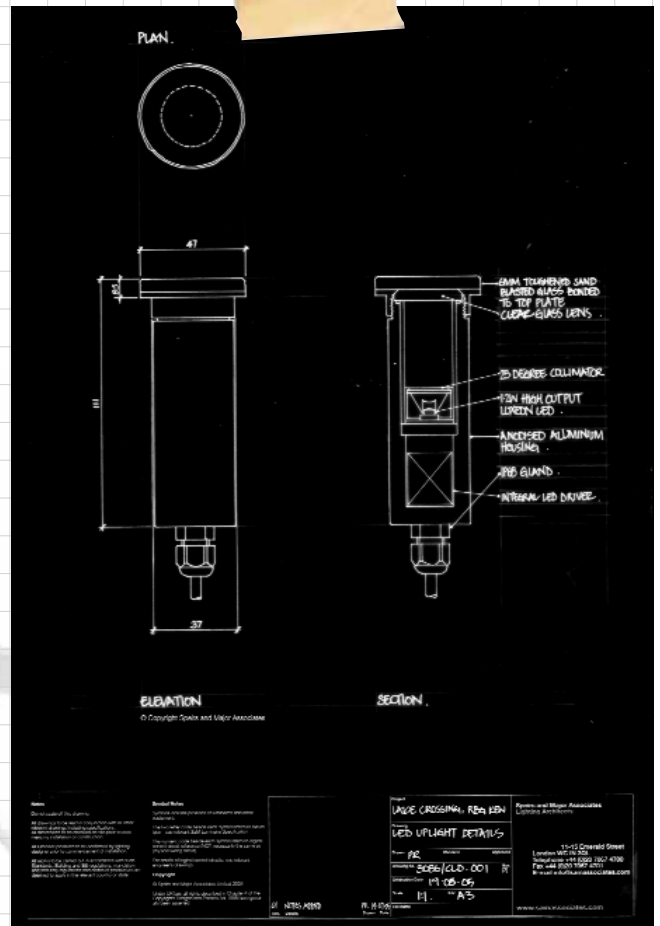
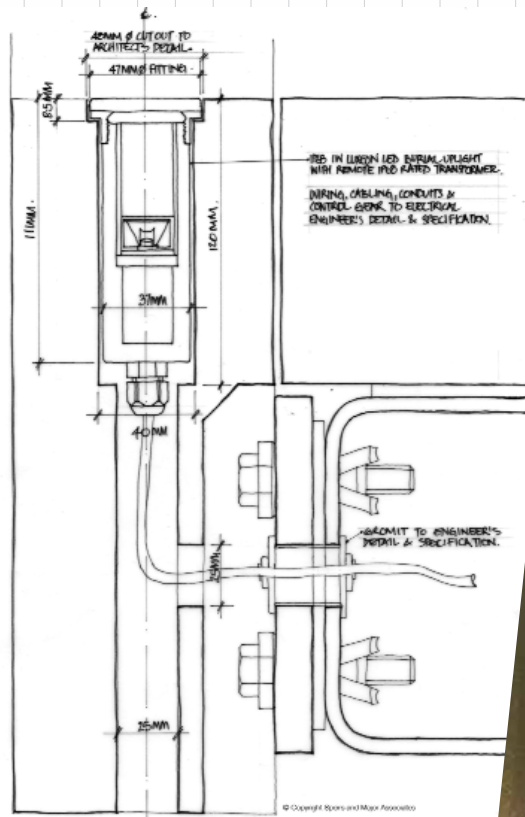


COLD CATHODE & LED INNOVATIONS

Case Study - Sackler Crossing

Design Team

Client	Royal Botanic Gardens, Kew
Architect	John Pawson Architects
Structural Engineer & Project Management	Buro Happold
Electrical Engineer	Atelier Ten
Lighting Architect	Speirs & Major Associates
Cost Consultant	Jackson Cole
Main Contractor	Balfour Beatty
Electrical Contractor	Pococks



Design Awards

Special Projects Award, Lighting Design Awards (UK) 2007
 Award of Distinction, International Illumination Design Awards 2007

Case Study - Bridge of Aspiration

LIGHTING DESIGNER

Speirs & Major, London, UK

SUMMARY

Connecting the Royal Ballet School to the Royal Opera House in Covent Garden, Wilkinson Eyre's bridge is a dynamic and dramatic structure. Based around 23 square aluminium frames, it twists in a series of 3.91 degree steps, rotating through a full 90 degrees from one end to the other. The idea was to simply and graphically "draw" this series of twists with light. This manifested itself in a series of L-shaped glowing elements integrated into the corners of the frames.

DESIGN BRIEF

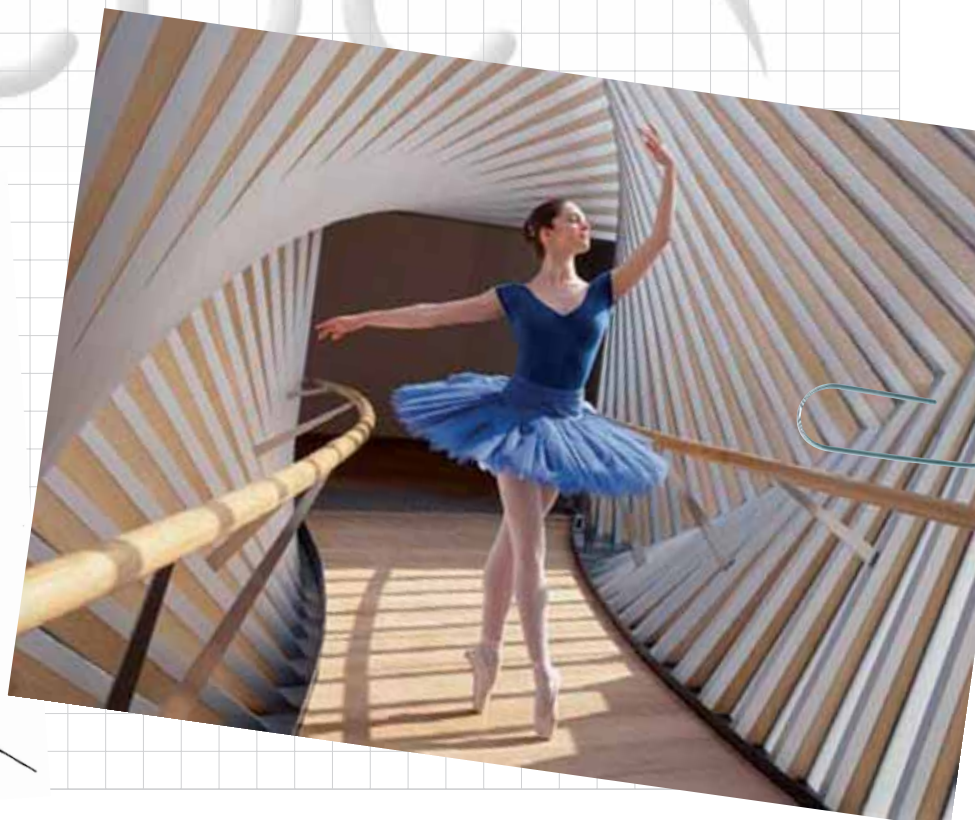
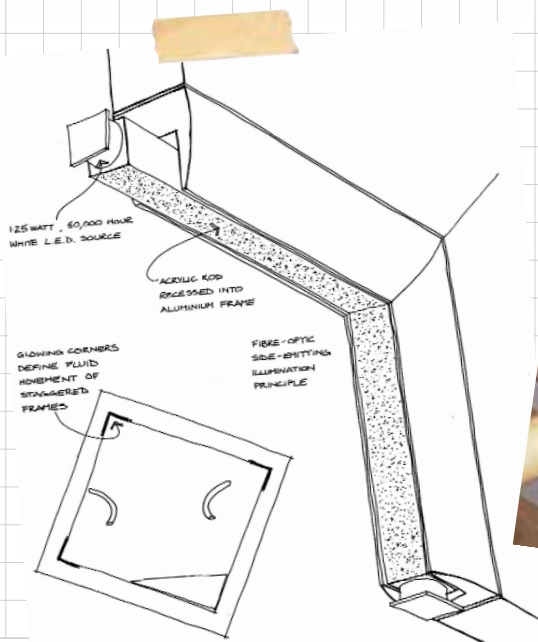
The role of the lighting was to capture and complement this sinuous form, becoming one with the structure. The emphasis was also on the users of the bridge, the dancers who would cross it. Rather than providing a lighting scheme to be seen from the street, the planning authority wanted the bridge to be understated rather than a bright element after dark.

DESIGN SOLUTION

The only position to mount any light source was within the aluminium frames of the bridge, to graphically draw the twists of the bridge using custom made fixtures. ACDC worked with Speirs & Major to design a series of 'L' shaped luminaires made from pieces of acrylic, with a 1 Watt Luxeon LED mounted in each end. Similar principles to fibre optic were then employed, shining the light along the sandblasted acrylic, picking up the light and creating an evenly glowing light bar.

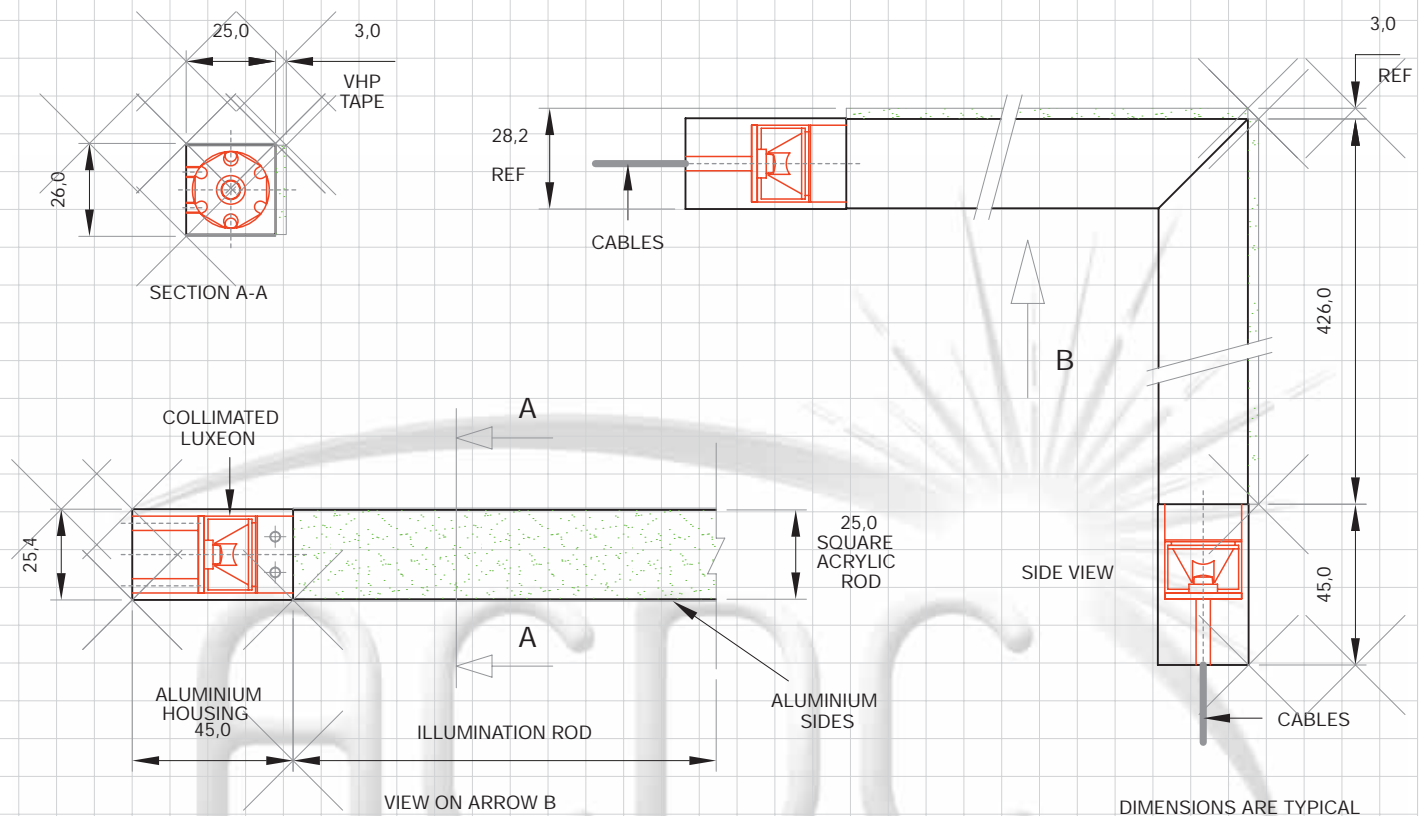
LED SOLUTION

This detail could not have been created with any other light source, for reasons of space and heat.



Case Study - Bridge of Aspiration

DESIGN DRAWINGS, RENDERING AND PROJECT IMAGES

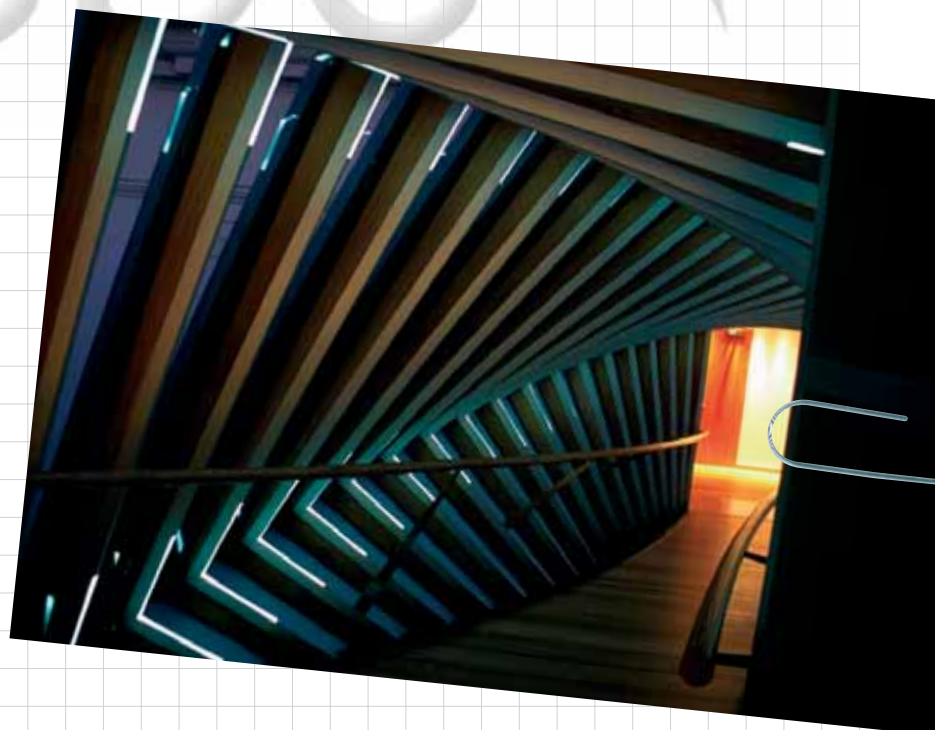


CLIENT COMMENTS

The client was incredibly happy with the design solution, and the project still looks as good today, as it did when it was first installed in 2003.

DESIGN AWARDS

Award of Excellence, IALD Awards, 2005 Best Public Space Lighting Scheme, FX International Design Awards, 2003 Lighting Design, Civic Trust Awards, 2004







ACDC LED - PRODUCTION FOCUS

PRODUCT QUALITY

Although the design of a product is obviously important, the quality of the manufacturing process that follows represents the key in delivering long life lighting solutions. In this section, we guide you through the production process, identifying the key points and highlighting the critical factors when selecting an LED product manufacturer. Not all LED fittings are created equal, with less expensive, poor quality products sometimes threatening to diminish the potential of LEDs through poor lifetime performance and appearance. Important points when selecting a manufacturer and product are therefore:



Fitting Quality - standard of housing quality, in terms of continuity, material quality and finish.

Light Source - many LEDs exist, but with largely varying lumen packages.

Performance Rating - will a product perform in line with the specification.

Quality Guarantee - Lumileds approved manufacturer, to assure product quality.

FITTING QUALITY

LED housings manufactured to 1/1000th of a mm

The LED housing is equally as critical as the LED source, both in terms of thermal management and aesthetic appearance. ACDC understand that the initial LED product cost may be slightly more than conventional light sources, and therefore understand that only a finish of the highest quality should be produced. Similarly we are aware that when working with LED's, one of the primary reasons for specification is long life. Having designed the fittings to enable the LED itself to perform suitably throughout their life, it is obviously critical that the housing and components themselves will also perform. We only utilise the finest 316 Stainless steel, 6082-T6 aluminium, and other materials of the highest quality to deliver a truly world class product.

place. The technical team has a vast experience in handling special projects and the manufacturing facility is specially designed to handle vastly different types of work, with a totally flexible manufacturing space.

In house test chambers for ingress protection and thermal performance have been constructed for use both during the design process and testing beyond, ensuring that only luminaries of the highest quality will be supplied. We understand that when a specification is being drawn up, it is not only the name of the manufacturer which is on the line, but also that of the specifier themselves, a matter which is at the heart of the company's philosophy.

LIGHT SOURCE

It is important to note that all LEDs are not created equal

i. High Output & High Efficacy

ACDC use only the best quality, highest brightness LEDs available. Each product specification sheet clearly states the efficacy (that is lumens per Watt), expected lifetime and lumen maintenance of each fitting, to guarantee superior lighting performance. For example the lumen output from a 1 Watt Luxeon LED is currently 100 Lumens, whereas several other 'equivalent' 1 Watt LEDs may only offer a lumen package of 20 Lumens. This is obviously a major factor, which is covered in greater depth in the FAQ and the How to Specify sections, so specification of not only the LED wattage is important, but also the required output.

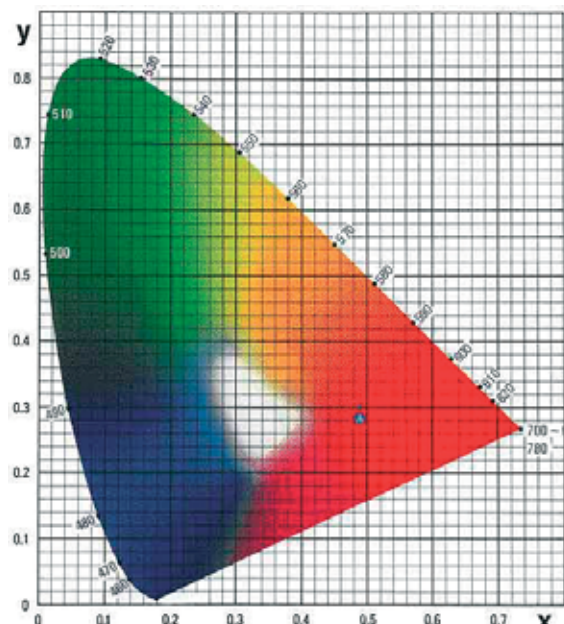
ACDC are one of the only LED product manufacturers to provide independently tested photometric data, for all of our products. These can be supplied in IES format, and are available to download from our website. This data is continuously updated in line with improving LED performance, and regular datasheets are produced with the latest LED performance facts.



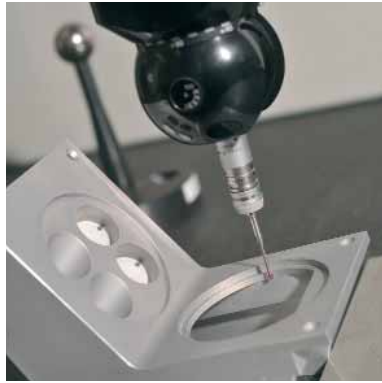
THE FINISH AND QUALITY OF EACH AND EVERY FITTING IS NOT ONLY DESIGNED TO BE OF THE FINEST QUALITY, BUT CAREFULLY CHECKED THROUGH EXACTING AND SPECIFIC QUALITY SYSTEMS

ACDC utilise the latest technology CNC machinery, including 5-axis Horizontal CNC Machining Centres, CNC Lathes and CNC Mill/Turn Centres, to manufacture components to aerospace standard. The accuracy and quality of manufacture from these machines, is accurate to 1/1000th of a mm, delivering a guaranteed quality which is consistently excellent. These machines allow us to turnaround relatively small batch quantities on quick lead times, along with manufacturing parts to the highest level of accuracy. The finish and quality of each and every fitting is not only designed to be of the finest quality, but carefully checked and inspected through exacting and specific quality systems.

Over 30,000 component types are stored within the LED manufacturing facility, enabling quick turnaround of project based orders. Once an order is placed, the respective components are 'picked', assembled and shipped, with certain orders turned around within 2-3 days. Our standard lead time is between 2 and 4 weeks. For large volume projects where product specials have been designed, many components will have to be uniquely manufactured and the sourcing of specific materials may also have to take



»»» A FURTHER COLOUR BINNING TEST IS CARRIED OUT USING A STATE OF THE ART SPECTROMETER WHICH MEASURES THE EXACT COORDINATES OF THE LED ON THE CHROMATICITY DIAGRAM AND RE-BINS EACH LED



ii. Consistent Colour – Dual Bin Process

Colour binning is one of the most talked about and difficult areas in LED manufacture, which is also covered in the FAQ section. ACDC purchase large volumes of LEDs and as such are in a position to determine a specific bin for each and every colour.

As a secondary process however, a further colour binning test is carried out using a state of the art spectrometer which measures the exact coordinates of the LED on the chromaticity diagram and re-bins each LED. This additional test enables ACDC to offer a guaranteed colour consistency, ensuring that every project and LED colour continuity throughout. Once the dual bin process is complete, the LEDs can be thermally bonded to the necessary housing, to ensure the safe dissipation of heat from the LED source to ensure long life. ACDC also keep an accurate database of which LED bin has been supplied on each and every project, enabling additional orders or replacements to be shipped which correlate to the original.

PERFORMANCE RATING

All ACDC products are independently tested and verified

Independent Testing

All ACDC products are tested by independent test houses in terms of lumen output, ingress protection, thermal management, along with electrical performance, to assure each and every product performs in line with the products' specification.

Assembly

All production is carried out by highly skilled employees, not only with electronics and electrical expertise, but also an attention to achieving outstanding quality. All luminaires are checked and tested prior to and after manufacture, and the manufacturing process is fully documented and traceable, guaranteeing a right first time product delivery.

Packing & Dispatch

Although the packaging of the fittings may appear a minor factor, it is also an important part of the process. ACDC take anti-static precautions to make sure that no damage occurs to the LED after it has been dispatched. Similarly, specialist packaging has been designed to ensure that damage does not occur in transit and that the fittings arrive in the pristine condition expected. All orders are shipped by well known couriers, all of whom have live order tracking facilities so you know exactly where your shipment is up to.

QUALITY GUARANTEE

ACDC LED products are all provided with a 2 year back to base guarantee, although if there was a significant batch failure on a project prior to the expected lifetime, ACDC guarantees to replace all luminaires, accordingly. ACDC are a Lumileds approved manufacturer and are in the process of receiving quality approvals from other leading brand LED manufacturers. This assures you that the quality of our designs, products, service and overall performance are to an excellent standard.



»» ACDC LED - SERVICE FOCUS

Quality Service

While product quality is critical when specifying architectural LED lighting, we understand that the standard of service and a high level of trust are equally important. ACDC take a long term view and we aim to create long lasting customer relations. Our Sales team offer informed and accurate information on all aspects of LED lighting, while our technical support team are also able to provide assistance on special designs and specific requirements to offer the optimum solution.

Sales engineers may also be able to visit you to discuss your specific requirements, and samples are available of all products on request. One of the primary foundations of the business is delivering right first time, and on time. Product lead times can however represent a key part of the service, and ACDC are committed to providing standard products on sensible lead times, on time. As all products are manufactured by ACDC in the UK, most products are available on average on 2-4 weeks, while small quantities are available on quicker lead times. Where large volumes or specials are required, extended lead times may be necessary, although the sales team will give you accurate information as part of the design and estimation stage.

ACDC now have fully trained distributors in over 30 different countries, so whether the project is specified from the UK, USA, or anywhere else, there is a good chance, there will be a good level of support in the destination country. Should a country not be covered by our distribution network, then we are more than willing to travel direct to you, and assist with relevant site or design specifications.

ACDC work with many of the worlds leading lighting designers, on some of the most prestigious projects across the globe. Our aim is to deliver truly outstanding service enabling you to meet your clients' expectations.

Further information is also available on our website www.acdclighting.co.uk where PDF specification sheets, installation instructions and photometric data for incorporation into lighting design programs can also be found. Should further assistance be required, then of course the sales team will be more than willing to help.



For full details of our global distributor network, visit our website www.acdclighting.co.uk

»» ACDC HAVE DISTRIBUTORS IN OVER 30
DIFFERENT COUNTRIES WORLDWIDE

»»» IN 2008 ACDC MOVED INTO THEIR NEW 30,000 SQ FT HEADQUARTERS, DESIGNED TO DELIVER OVER 120,000 METRES OF COLD CATHODE AND 500,000 LEDS PER ANNUM. THE BUILDING HOUSES STATE-OF-THE-ART OFFICES AND PRESENTATION SUITES BEFITTING OF A GLOBAL ORGANISATION





PRESTIGIOUS LED PROJECTS

UK PROJECTS

Wimbledon Tennis Museum

Merchant Adventurers, York

St Andrews Square, Edinburgh

Westfield Shopping Centre

Marketgate, Dundee

Dakota Hotel, Farnborough

DLR Heron Quays Station

Barclays BP1, Canary Wharf

Gatwick Airport

Canary Wharf - West Winter Garden

Hodson Bay Hotel, Ireland

Prince of Wales Theatre

Chester Racecourse

Liverpool Gateway

Northshore Footbridge



Blenheim Palace

Churchill Museum

Abercrombie House

Peterborough Cathedral

Westminster Bridge

British Library

National Gallery

Yorkshire Sculpture Park

Birmingham Children's Hospital

Meadowhall Shopping Centre

Science Museum

Royal Museum of Scotland

Royal Naval Submarine

Royal Opera House

Liverpool Arena



Royal Academy Restaurant

University College London

Royal Academy of Arts

Vos Pad

The Deep, Hull

Eurostar (St Pancras)

Westfield London (White City)

Marketgate, Dundee

Twickenham Rugby Headquarters

Newport Water Filter

Annenberg Theatre

(The American School)

Grosvenor Pulford Hotel

New Street Square, Birmingham

Medieval and Renaissance

Victoria & Albert Museum

GLOBAL PROJECTS

Mirdiff City Centre, Dubai

The Gate, DIFC, Dubai

Crown City, Macau

Eurovea, Bratislava

Q House, Dublin

Al Jahba Tower, Dubai

Mandarin Oriental, Geneva

Burj Al Arab, Dubai



Kowloon Station

Al Nakheel Tower, Dubai

Grand Hyatt, Macau

Sheraton, Turkey

Grand Canal Square, Dublin

Lake Hotel, Dubai

World Trade Centre, Bahrain

City Centre, Bahrain

Qubla Building, Kuwait

Platinum Yachts, Dubai

Festival City, Dubai

Atlantis Resort, The Palm, Dubai



Conference Palace Hotel, Abu Dhabi

Picasso Museum, Malaga

Leuchtenpark, Zurich

Sheraton, Oman

Chanel, Beijing

Schipol Airport, Amsterdam

International Wetlands Park, Hong Kong

Astoria Hotel, Opatija, Croatia

The Cube, Moscow

W Hotel, Doha

Burj Tower, Dubai

Burjman Centre Extension, Dubai

Kuwait Trade Centre, Kuwait

Asha, Doha

British Embassy, Algiers

Guinness Visitor Centre, Dublin

The Lakes, Kuwait

Al Sama Sales Centre, Oman

Jewish War Museum, Sydney

Al Akaria Plaza Project

Al Nakheel Tower

Lake Hotel, Burj, Dubai

Anz Hub, Melbourne

»» WORKING WITH THE WORLDS TOP DESIGNERS
ON THE WORLDS MOST PRESTIGIOUS PROJECTS

Standing at over 800 metres tall, Burj Tower Dubai will be the worlds tallest tower and the centre piece of the Gulf regions most prestigious urban development to date. ACDC have supplied vast numbers of cold cathode luminaires and LEDs to the project through Cinmar, their extremely successful U.A.E. distributor.



RETAIL

Armani
Gucci
Mercedes
Harrods
Marks & Spencer
Selfridges
Aquascutum
Habitat
Dior
Chanel
Prada
Adidas
Magic Planet
First Choice
Mitutoyo
Next
Blockbusters

RESTAURANTS & BARS

Conran Restaurants
Yang Sing
Nando's
Starbucks
Carluccio's
Tiger Tiger
Revolution Bars
Pitcher and Piano
JD Wetherspoon
Pizza Hut
McDonalds

HOTEL

Radisson
Jurys
Hyatt Regency
Marriott Hotel
Holiday Inn
Sheraton
Hilton
W Hotel
Crowne Plaza
Ramada

FINANCIAL

Ethniki Insurance Company, Athens
HBOS
Royal Bank of Scotland
Birmingham Midshires
Ernst & Young
Deutsche Bank
Yorkshire Bank
AXA
Standard Chartered Bank
Clydesdale Bank
Lloyds TSB
Deloitte and Touche
Barclays
Morgan Stanley

LEISURE

David Lloyd Leisure
Rendezvous Casino
Gala Casino
MGM Grand

CORPORATE

British Airways
Volvo Bus & Trucks
Cisco
IBM
BT
Sun Microsystems
Warner Bros
Mecca Bingo
Jack Barclay
Carphone Warehouse
Capital One
Bombay Sapphire
Asda
Tesco
Heller Erhman

