

July/August 2023

£5.95



Lighting

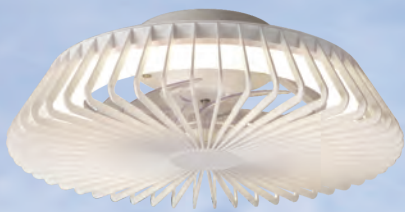
FIRST PLACE FOR NEWS IN YOUR INDUSTRY



GOING GREEN • EDUCATION LIGHTING • RESIDENTIAL LIGHTING

WWW.A1LIGHTINGMAGAZINE.COM

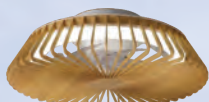
HIMALAYA MINI



M8196
White



M8197
Black



M8198
Wood Effect

70W LED Dimmable Ceiling Light
Integrated 30W DC Fan
4900lm System Flux
Remote Control

2700K-5000K

OCEAN



M8235
White/Wood



M8236
Black/Wood

60W LED Dimmable Ceiling Light
Integrated 35W DC Fan
4200lm System Flux
Remote Control

2700K-5000K

ALOHA



M8233
White



M8234
Wood

45W LED Dimmable Ceiling Light
Integrated 30W DC Fan
3500lm System Flux
Remote Control

2700K-5000K

POLYNESIA NATURAL



M8229
Beige/Oscu

70W LED Dimmable Ceiling Light
Integrated 35W DC Fan
4200lm System Flux
Remote Control

2700K-5000K

COIN AIR MINI



M8219
White



M8220
Wood Effect



M8221
Black

45W LED Dimmable Ceiling Light
Integrated 25W DC Fan
2500lm System Flux
Remote Control

2700K-5000K

INDONESIA



M7810
Beige/Rattan

70W LED Dimmable Ceiling Light
Integrated 35W DC Fan
4200lm System Flux
Remote Control

2700K-5000K

POLYNESIA NATURAL MINI

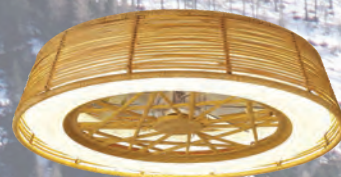


M8230
Beige/Oscu

55W LED Dimmable Ceiling Light
Integrated 25W DC Fan
3800lm System Flux
Remote Control

2700K-5000K

INDONESIA MINI



M8225
Beige/Rattan

55W LED Dimmable Ceiling Light
Integrated 25W DC Fan
3800lm System Flux
Remote Control

2700K-5000K

POLYNESIA NAUTICA MINI



M8228
Beige/Oscu

55W LED Dimmable Ceiling Light
Integrated 25W DC Fan
3800lm System Flux
Remote Control
2700K-5000K

POLYNESIA NAUTICA



M8227
Beige/Oscu

70W LED Dimmable Ceiling Light
Integrated 35W DC Fan
4200lm System Flux
Remote Control
2700K-5000K

TURBO



M8231
White



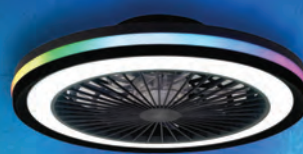
M8232
Black

55W LED Dimmable Ceiling Light
Integrated 30W DC Fan
4100lm System Flux
Remote Control
2700K-5000K

mantra

ventilación

NEW FOR 2023



M8291
Black

NEW BIGGER
Ø530mm SIZE
NOW IN STOCK
M7861 WHITE
M7862 BLACK

TUNEABLE COLOUR TEMPERATURE 3000K-6500K

RGB COLOUR CHANGING

GAMER

40W RGB LED Dimmable Ceiling Light
Integrated 20W DC Fan
3000lm System Flux
Remote Control / App Control



M8292
White

M8218
Black

COIN AIR

60W LED Dimmable Ceiling Light
Integrated 30W DC Fan
3300lm System Flux
Remote Control
2700K-5000K

M8216
White

M8217
Wood Effect

INSPIRED
LIGHTING



ecopac^{UK}
POWER LTD

A  COMPANY

MEAN WELL LED DRIVERS AND DIMMABLE DRIVERS



LCM-60DA2

- 60 watt dimmable driver
- Built-in DALI2 dimming
- Constant current dip switch selectable

XLG-150-24-A

- 150 watt 24 volt output
- IP67 rated
- Up to 93% efficiency



PWM-60-24DA2

- 60 watt 24 volt output
- Built-in DALI2 dimming
- Constant voltage PWM output



For more information:

Call 01844 204420

Visit www.ecopacpower.co.uk

Email info@ecopacpower.co.uk



JULY/AUGUST 2023

12 GOING GREEN

What is the lighting industry doing to be greener? The experts tell us more and offer advice for what else the lighting industry can be doing.

20 EDUCATION LIGHTING

How can lighting aid child development and learning? The experts explain more about the recommended lighting for educational facilities and the benefits it provides.

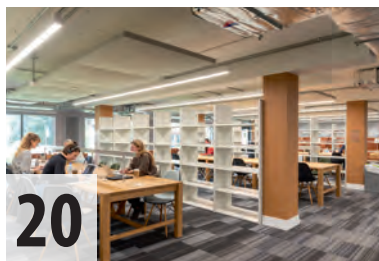
26 PLASA SHOW 2023 PREVIEW

The world of live entertainment technology will once again convene at Olympia London from 3rd - 5th September for PLASA Show 2023. Discover what's in-store for this year's show in this two-page preview feature.

32 RESIDENTIAL LIGHTING

We find out how best to light a residential property to meet the different demands of each area of the home alongside an interesting case study.

44



contents

38 CIRCULAR LIGHTING LIVE 2023 PREVIEW

Circular Lighting Live is back for 2023 on 21st September. With capacity increased by 30 percent and even more exhibitors, the organisers tell A1 Lighting why you should attend.

44 EYES ON... DALI ALLIANCE

Paul Drosihn, General Manager of the DALI Alliance tells A1 Lighting how lighting professionals can address growing customer concerns about sustainability and energy efficiency.

48 PROJECTS

This month we look at a variety of interesting lighting projects from across the UK and further afield.

82 OPINION

Julian Kay, Managing Director of DANLERS Limited, discusses options for lighting control projects on restricted budgets.



CALEX

HOLLAND

Available
from



To get your FREE copy of the latest Flexform Calex catalogue,
contact us at +44 28 9079 2155 / info@flexform.co.uk

flexform.co.uk  FlexformCables  [flexformcables](https://www.instagram.com/flexformcables)

MANAGING DIRECTOR

Terry Ware
+44 (0)7734 682545
terry@a1mediamagazines.com

EDITOR

Abigail Rossington
+44 (0)7828 608162
abigail@a1mediamagazines.com

GRAPHIC DESIGN

Carley Espinoza
carley@a1mediamagazines.com

SUBSCRIPTIONS

subscriptions@a1mediamagazines.com

ACCOUNTS

accounts@a1mediamagazines.com

GENERAL ENQUIRIES

enquiries@a1mediamagazines.com

EVENTS

events@a1mediamagazines.com

Printed by Micropress Printers Ltd.

A1 Lighting Magazine is published by
award-winning 4 U MEDIA LIMITED
T/A A1 Media.

Tel: +44 (0)1787 222251

Address: 4 U MEDIA LIMITED T/A A1 Media,
A1 Lighting Magazine, Unit 4, Fox and Pheasant Centre,
White Colne, Colchester, Essex, CO6 2PS.

No part of A1 Lighting Magazine may be reproduced,
stored in a retrieval system or transmitted in any form
without permission. Views expressed in the magazine
are not necessarily those of 4 U MEDIA LIMITED
T/A A1 Media.

During printing, images may be subject to up to a 15
percent variation. ©Copyright 4 U MEDIA LIMITED
T/A A1 Media 2023. All rights reserved.



Front cover image courtesy of Recolight/
Graham Brooks, www.g-graphic.co.uk.

MESSAGE FROM THE EDITOR

Welcome to the July/August 2023 issue of A1 Lighting



This exciting joint issue is bursting at the seams with thought-provoking content, from topical features, upcoming event previews, insights from industry professionals and plenty of projects sure to leave you feeling inspired.

We kick-start this issue by asking what is the lighting industry doing to be greener? The experts tell us more and offer advice for what else the sector can be doing to become greener in our Going Green feature.

As schools, colleges and universities begin to break up for the summer, facilities managers have the opportunity to re-evaluate the building's lighting. Our Education Lighting feature investigates the recommended lighting for educational facilities and the benefits good lighting provides to students and staff.

"As schools, colleges and universities begin to break up for the summer, facilities managers have the opportunity to re-evaluate the building's lighting."

Bringing together the world of live entertainment technology under one roof, PLASA Show 2023 will once again convene at Olympia London this September. Discover what's in-store for this year's show in this two-page preview feature.

With modern-day homes often serving multiple purposes, our Residential Lighting feature finds out how best to light a residential property to meet the different demands of each area of the home alongside an interesting case study.

Returning after a huge success in 2022, Circular Lighting Live is back on 21st September 2023. With capacity increased by 30 percent and even more exhibitors, the organisers tell us more about why you should attend. You may have also spotted our fabulous front cover supplied by Recolight, emphasising the need to move to a circular economy.

The next issue will include features on Healthcare Lighting, Office Lighting, Street Lighting and much more. If you'd like to find out how to be involved, please email me at abigail@a1mediamagazines.com.

Until the next issue, stay safe and keep well.

Abbie Rossington
Editor

Follow us on:



A1 Lighting is proud
to be an ACID Media
Supporter.



Please recycle this
magazine after reading.

Supported by:



EXPANSION PLANS UNDERWAY FOR PHAROS WITH CAMBRIDGE OFFICE OPENING

As part of its ambitious growth and expansion plans, Pharos Architectural Controls has announced the opening of an office in Cambridge at Hope Street Yard - a development of highly sustainable and modern workplaces that have earned a best-in-class Energy Performance certificate (EPC) rating of A+. The new UK site will be focused on R&D and product development, as well as providing hot desks and meeting facilities for UK employees who live outside of London.

The new site is part of wider growth and expansion plans for Pharos Architectural Controls, following the successful launch of the Expert range. This has taken Pharos into new markets and secured significant additional business. To continue to develop the Designer, Expert and Cloud ranges in parallel, the company will be recruiting for a number of new roles over the coming months.

Pharos Architectural Controls' Chief Executive Officer, Simon Hicks, commented, "The new Cambridge office is an exciting part of our trajectory as we look to build a larger product development and engineering team within the business. The location is a superb fit, offering a great position within the Cambridge tech cluster and an incredibly low carbon footprint; something that we're excited to be able to take advantage of."

The opening of the Cambridge office comes just a short time after the company's relocation to larger premises in West London; further evidencing the rapid evolution of the business.

Image courtesy of Pharos Architectural Controls.



GRIMANESA AMORÓS ANNOUNCED AS HEADLINE SPEAKER AT LIGHT 23

Taking to the stage on Tuesday 21st November 2023 at LiGHT 23, Grimanesa Amorós will present 'Illuminating Boundaries: The Exploration and Creation of Art Through Light', followed by a Q&A session with arc magazine's editor, Matt Waring.

Grimanesa Amorós is a Peruvian-born American multimedia creative whose work explores community connections intersecting history, technology and architecture. Her keen understanding of structure enables her to create monumental sculptures incorporating various elements such as video, lighting and electronic components to create immersive environments and connect the viewer to their surroundings.

Commenting on her involvement at LiGHT 23, Grimanesa Amorós said: "LiGHT 23 will be where those who love light can unite and convene about the latest tech and how light is being used. Join me for this year's LiGHT 23 to learn how light and art intermingle and how to live in 'A constant Romance with the Unknown'. I am looking forward to seeing you all."

[d]arc thoughts, in collaboration with lighting control specialist Lutron, will take place on the Gallery level in a dedicated conference space. Running for two-days as part of the wider LiGHT 23 exhibition, talks and presentations will focus on trends and innovation within lighting, while being moderated by arc and darc magazine editors as well as guest editors. All talks are completely free to attend, and the full talks programme will be announced in due course.



Photography credit: Chiara Cussatt.

STUDIO LUMEN WIN BIG AT THE FIRST-EVER COMMERCIAL INTERIOR DESIGN AWARDS FOR HOSPITALITY

Studio Lumen were thrilled to be recognised for their lighting design at the first Commercial Interior Design Awards: Hospitality. The prestigious awards were held last month at the JW Marriott Marquis Dubai, showcasing the incredible work of individuals and projects in the hotel, restaurant and bar sectors.

Studio Lumen were awarded for the Best Use of Lighting in a F&B or Hotel Project for the Bab Al Shams resort project in Dubai. The aim of the resort's recent refurbishment was to provide a much-needed facelift while ensuring the design remained relevant and future-proofed. Both preserving the authentic visual heritage and blending this with contemporary Arabic elements. You can read more about this project on page 60 of this issue.

Siddharth Mathur, Managing Partner at Studio Lumen, commented on the win: "We are so proud to have been recognised for our award-winning hospitality lighting at this prestigious awards event. It was an honour to be celebrated together with the leading figures and companies in the hospitality design community. A huge thank you to Commercial Interior Design and the panel of judges for this wonderful acknowledgement, we are truly grateful. This recognition proves the dedication of the Studio Lumen team to creating outstanding lighting design which enhances the environment for the people within."



Photography credit: Natelee Cocks.

LIGHTING RETHINK WITH RECOLIGHT

LIGHTING INDUSTRY REGULATORY AND STANDARDS UPDATE



Images courtesy of Recolight.

Circular Lighting Live on 21st September in London will provide a definitive update of the tsunami of new sustainability regulations that will hit the lighting industry. The regulatory landscape is set to change dramatically with pending circular economy legislation due to be launched. These include the Ecodesign for Sustainable Products Regulation (ESPR), Right to Repair legislation and a raft of other rules affecting green packaging, sustainability information, substantiating green claims, chemicals and waste. Maurice Maes, Head of Standards and Regulations at Signify will give an essential update on the regulations and how they will affect businesses in the lighting supply chain.

Specifiers and end users are now asking for a wide range of environmental metrics, including environmental product declarations (EPDs) life cycle assessment (LCAs), and embedded carbon calculations (such as TM65) and circularity assessments (e.g., TM66). Delegates to the conference will learn about the best strategy to minimise administrative and third-party costs while maximising opportunities in the market.

For further information and to book your place, go to www.circularlighting.live. A limited number of free spaces are available for lighting designers, and there are discounts for Recolight WEEE scheme producer members.

www.recolight.co.uk | +44 (0)20 8253 9750

ReColight
Reuse | Recycle.

Sponsored by

INSPIRED
LIGHTING

www.inspired-lighting.co.uk

ELENA SCARONI ASSUMES THE ROLE OF SECRETARY GENERAL FOR LIGHTINGEUROPE

Image courtesy of
LightingEurope.



LightingEurope is delighted to announce the appointment of Elena Scaroni as its new Secretary General. Elena Scaroni's promotion to this important role comes after her successful tenure as Policy Director since joining LightingEurope in September 2016.

Elena Scaroni has been at the forefront of advocating for the European lighting industry's interests. Her expertise and leadership have been instrumental in driving the advocacy efforts concerning the latest Ecodesign and Energy Labelling Regulations for light sources.

"I am honoured to take on the position of Secretary General for LightingEurope," said Elena Scaroni. "My first thoughts go to my predecessor, Ourania Georgoutsakou and to the LightingEurope team, who have made LightingEurope a leading trade association in the field of sustainable products and quality of light. Lighting is now recognised as one of the main contributors to indoor environmental quality and LightingEurope as a key actor asking policy makers that rules should be better enforced."

Elena Scaroni plans to work in full continuity with what has been achieved so far. "I am dedicated to advancing the lighting industry's agenda based on the work done with our members. I look forward to working closely with the industry stakeholders from the whole lighting value chain and policymakers."

BCIA SETS FIVE-MILLION STEP CHALLENGE IN SUPPORT OF TEENAGE CANCER TRUST

The Building Controls Industry Association's (BCIA) nominated charity this year is the Teenage Cancer Trust (TCT), and the organisation is asking its members to plan corporate activities throughout the year as part of an ongoing fundraiser.

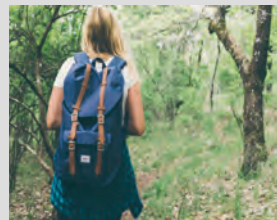


Photo credit: Pexels.

Taking inspiration from the TCT's 15,000 step challenge, which is the number of steps per day the average TCT nurse works in their role of supporting young people and their families affected by cancer, the BCIA would like its members to collectively complete five-million steps and help raise £25,000 for the charity.

The Awards event in May formed the centrepiece of the BCIA's fundraising with a spectacular £5,602 raised on the evening, including £500 from the BCIA in lieu of development costs for its Market Information Service.

Members are being asked to fundraise either through a walk with colleagues, family and friends or through other ways such as a bake sale or BBQ – creativity is welcomed!

BCIA President Graeme Rees, said: "The BCIA is extremely proud to be supporting the Teenage Cancer Trust, which helps young people and their families dealing with cancer and it's a charity that is particularly close to my heart. Several companies have already come up with some creative ways to donate and I would like to encourage as many of our members as possible to get involved and help us reach our target."

All donations and activities can be linked to the BCIA JustGiving page here: www.justgiving.com/page/bcia2023.

NEWS & BUSINESS

DO YOU HAVE AN INDUSTRY EVENT COMING UP?

SEPTEMBER 2023

PLASA SHOW

PLASA Show
3rd – 5th September 2023
Olympia London, UK

PLASA Show is the UK's international trade event for live entertainment technology. The international show attracts thousands of industry professionals for three productive days of cutting-edge technology and forward-thinking content. It's the perfect place to source new suppliers, build business connections and soak up inspiration.

www.plasashow.com @plasashow
#PLASASHOW

SEPTEMBER 2023

AUTUMNFAIR

3-6 SEPTEMBER 2023 | NEC BIRMINGHAM

Autumn Fair
3rd – 6th September 2023
NEC Birmingham, UK

Autumn Fair is the UK's most vibrant marketplace for wholesale home, gift and fashion. It is where bestsellers are found, relationships are forged, and curiosity is piqued. If you want to touch, feel, and experience what's new and innovative across the home, gift and fashion retail industry, Autumn Fair is the marketplace for you. Connect @ Autumn Fair is the new meetings programme at Autumn Fair, designed to help you find the products you need, quickly and easily.

www.autumnfair.com @SpringAutFair
#AutumnFair

SEPTEMBER 2023



Circular Lighting Live
21st September 2023

Royal College of Physicians, London, UK
Circular Lighting Live is the UK's first and largest event dedicated to sustainable lighting.

The conference and exhibition, which was an instant success on its launch in 2022, brings the lighting industry together to consider how we become part of the circular economy. The one-day event is organised by Recolight, supported by LightingEurope and Defra and chaired by Circular Lighting Report editor Ray Molony.

www.circularlighting.live @Recolight
#CircularLightingLive23

OCTOBER 2023

DECOREX

8-11 OCTOBER 2023 | OLYMPIA LONDON

Decorex
8th - 11th October 2023
Olympia London, UK

Decorex is back for 2023, taking place from 8th - 11th October 2023 at Olympia London. An avenue for interior design discovery, the event creates unparalleled opportunities for industry professionals to connect, source the finest products and gain inspiration. With 200+ brands exhibiting, there is a huge range of hand-picked collections to discover; from fabrics to furniture, lighting to wallcoverings, decorative accessories to rugs, there's something new and unique to be found each year at Decorex.

www.decorex.com @Decorex_Intl
#decorex2023



DYNAMIC LIGHTING CONTROL

+44 (0)20 7471 9449

sales@pharoscontrols.com

pharoscontrols.com

Email events@a1mediamagazines.com with your event details.

SEPTEMBER - NOVEMBER 2023
DATES FOR YOUR DIARY

OCTOBER 2023

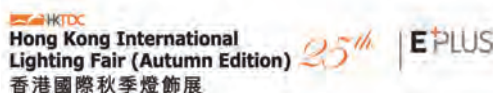


Smart Buildings Show
18th – 19th October 2023
ExCeL London, UK

An industry flagship event, Smart Buildings Show conference and exhibition remains free to attend and will this year take place from 18th - 19th October 2023 at ExCeL London. As well as an exhibition hall packed with the latest innovative products and solutions, the event will include a conference programme full of industry leaders delivering thought-provoking content on some of the latest trends and opportunities in the sector.

www.smartbuildingsshow.com/register
@smart_build
#SmartBuildingsShow

OCTOBER 2023



HKTDC Hong Kong International Lighting Fair (Autumn Edition)
27th – 30th October 2023

Hong Kong Convention & Exhibition Centre, Hong Kong, China

The 25th HKTDC Hong Kong International Lighting Fair (Autumn Edition) is staged concurrently with the HKTDC Hong Kong International Outdoor and Tech Light Expo (26th – 29th October 2023), this world-class lighting marketplace offers bright business opportunities to exhibitors, connect with buyers, establish new partnerships, and learn about the latest product innovations.

www.hktdc.com/event/hklightingfairae/
#HKTDC

NOVEMBER 2023



Hospitality Interiors Experience (HIX)
16th – 17th November 2023

Business Design Centre, London, UK

HIX is an annual exhibition for the hotel and hospitality supply chain. The event brings together the entire design and interiors supply chain, including bathroom, fabrics, FF&E, furniture, lighting, objects, outdoor, wellness, surfaces, technology and more, with the interior designers, architects, specifiers, hotel operators, procurement and developers involved in bringing the guest experience to life.

www.hixevent.com @HIXevent
#HIXEVENT

NOVEMBER 2023



LiGHT 23

21st – 22nd November 2023

Business Design Centre, London, UK

The UK's only dedicated exhibition for lighting specification. Show highlights include the [d]arc thoughts programme, for those keen to learn more about the hot topics from design, architecture and lighting. New for 2023 is a bespoke decorative lighting hub, darc space, showcasing a range of brands and an exclusive association lounge.

www.lightexpo.london @_light_london
#LiGHT23

Please check the event's website for the latest updates on dates, location, and registration.

What is the lighting industry doing to be greener?

The experts tell us more and offer advice for what else the lighting industry can be doing.



Nick Shaw, Technical Services Director at Dextra Group plc.:



"In recent years, the focus on the environmental impact of luminaire manufacturing has grown dramatically. Although the majority of the carbon footprint of a luminaire is typically the power consumed over its lifetime, many manufacturers, ourselves included, have already invested heavily in renewability power, increased energy efficiency of plant and machinery, reusing and recycling wherever feasible and eliminating single use plastics and other environmentally damaging materials.

Whilst these aspects help reduce the impacts of manufacturing, CIBSE TM65 and TM66 are helping manufacturers understand and minimise the impacts of their products over their lifetime. TM65 will ensure that the embodied carbon from the production, maintenance and end of life disassembly of luminaires is clearly understood

and publicly available. With a great understanding of the carbon content of luminaires by material type, manufacturers will be able to design products with a minimum of carbon content whilst publication of these figures will ensure that manufacturers are measured against competitors incentivising them to redesign and innovate to reduce embodied carbon as far as possible.

TM66 will ensure that products are designed with a focus on longevity, ease of repair and upgradeability at end of life. Historically many products sold on the UK market, especially lower cost imported ranges, have been manufactured with little consideration for maintenance and repair. Luminaires are often designed with bonded assemblies making components impossible to access, and the components used are often custom made by

little known manufacturers making replacements difficult to source. These manufacturing methods will hopefully be phased out in favour of products which have easily accessible components which are widely available and designs which allow simple replacement of critical components on a single tray allowing products to be easily repaired at end of life. Such designs also allow luminaires to be more easily recycled with materials that are easily separated.

These changes will push our industry to substantially reduce both the carbon footprint and the environmental impact of products over the coming years, whilst also allowing for a new era of design innovation with our environment at the forefront."

Dextra Group plc.
+44 (0)1747 858100
www.dextragroup.co.uk

*Image courtesy of
Dextra Group plc.*

"Customer requirements are increasingly placing an emphasis on lighting that is truly sustainable – products that are not just energy-efficient, but which are also resource efficient."

Nigel Harvey, CEO, Recolight.



Image courtesy
of Recolight.

Nigel Harvey, CEO of Recolight:



"Recolight have done much with the lighting industry to facilitate the transition to more circular and sustainable business models. Over the last three years, we have seen manufacturers, specifiers and end users starting to embrace the concept; moving from what needed to be done, to what is happening now.

Customer requirements are increasingly placing an emphasis on lighting that is truly sustainable – products that are not just energy-efficient, but which are also resource efficient.

Remanufacturing

One of the biggest contributions lighting manufacturers can make is to offer lighting remanufacture and upgrade. It is much more resource efficient to keep existing lighting in operation for as long as possible rather than simply supply brand new lighting. Evidence suggests that a typical remanufactured lighting

product is half the embedded carbon of new product. That is a major carbon saving that we should all be seeking to achieve.

Manufacturers are starting to implement specialist departments, or appointing subcontract remanufacturing specialists. And a new specification, BS8887 will help lighting producers ensure product is compliant with legislation and will give end users the confidence that remanufactured product is reliable.

The full engagement of end users is vital in this transition, by seeking to identify any projects that might be suitable for upgrade rather than replacement. Increasingly, remanufactured or upgraded luminaires should be the norm, not the exception.

Net zero

A number of lighting producers are already at or working towards net zero. But it is vital that this move accelerates. It is not sufficient for us

to offer energy-efficient and material efficient products. They must also be manufactured and distributed in a fully sustainable way. That means using electricity from renewable sources, avoiding fossil fuel heating systems powered by gas, and minimising waste throughout the manufacturing/remanufacturing process.

Circular Lighting Live

The Circular Lighting Live conference and exhibition on 21st September 2023 in London will give delegates an unparalleled opportunity to learn first-hand of the pitfalls and opportunities in embracing a more sustainable lighting future. Find out more on pages 38 and 40 of this issue."

Recolight

+44 (0)20 8253 9750
www.recolight.co.uk

Mark Shortland, Managing Director of Shoplight:



Image courtesy of Shoplight.

"The lighting industry has become greener through, for example, the use of LEDs and smart lighting systems and controls which have unlocked higher efficiency, more energy saving and longer-lasting products.

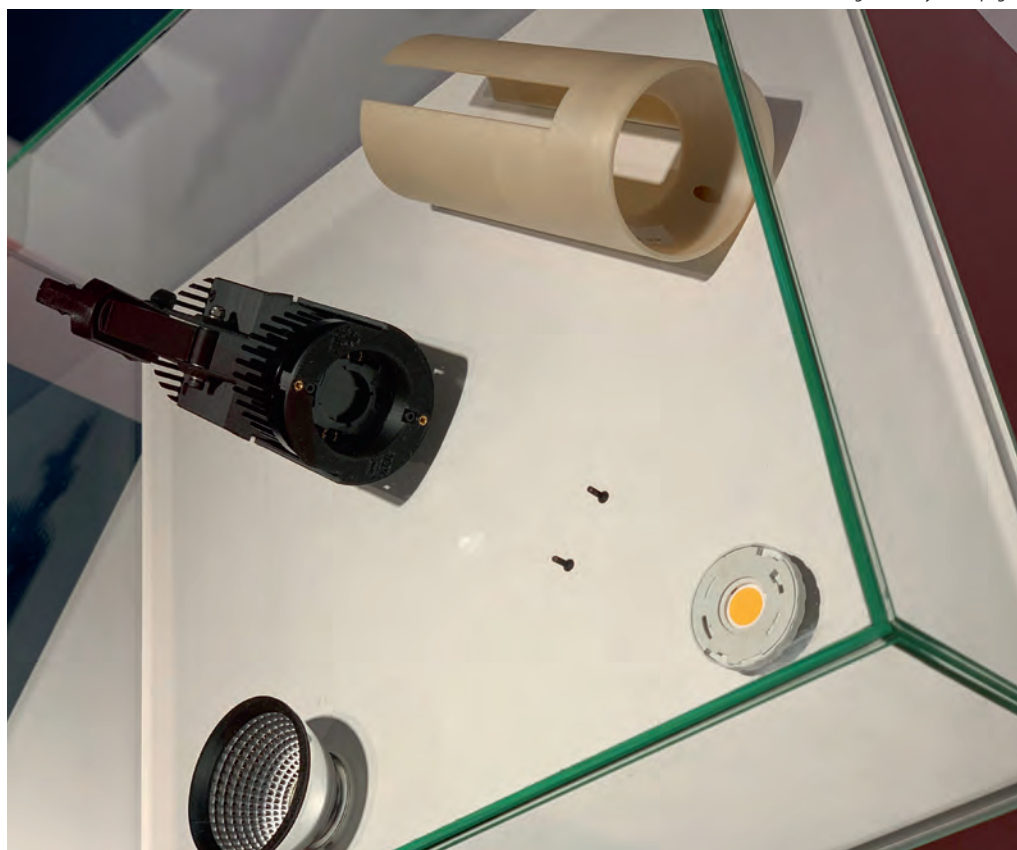
However, the lighting industry could become much greener by adopting a circular economy model which is about minimising waste and maximising resource efficiency. In a traditional linear economy, we follow a "take-make-dispose" pattern, where resources are extracted, used to make products, and then discarded as waste. In contrast, the circular economy promotes a continuous cycle of material and resource use.

Changing how lighting products are designed so we extend product life span is essential. Instead of discarding lighting products at the first sign of a fault or after use, we need to adopt methods for repairing, upgrading, reusing and recycling materials and products.

Adopting a modular design approach puts product restoration and regeneration front and centre. Key components are accessible for repair and faulty parts can be replaced rather than the entire product being disposed of. Furthermore, continuous improvement in technology can be applied to existing products. For example, as more efficient chips become available, existing lighting can be upgraded rather than replaced.

Products should also be designed with disassembly in mind so that at the end of life, raw materials can be recovered, reused and recycled with built-in take-back schemes.

Implementing these principles would mean the lighting industry is doing its part in creating a more sustainable and resilient economic system reducing our dependence on finite resources, minimising



environmental degradation, and promoting economic growth through innovation and new opportunities.

Nort, Shoplight's new spotlight is made from plant-based polymers and uses a modular design. Nort's key components are accessible so they can be repaired or upgraded, and its raw materials can be reused in new lighting products, biodegraded in an industrial composter, or recycled safely. A warranty, service plan and take-back scheme that helps retailers adopt circularity into their store rollouts are being developed. Nort is 3D printed in Peterborough and now proudly bears the Made In Britain mark, further reducing carbon emissions."

Shoplight
+44 (0)1733 345265
www.shoplight.lighting

"Products should also be designed with disassembly in mind so that at the end of life, raw materials can be recovered, reused and recycled with built-in take-back schemes."

Mark Shortland, Managing Director, Shoplight.

Airports are a high activity, 24 hour operation that demand specialist product and lighting control knowledge. Dextra Lighting are ideally placed to accommodate the needs of Airports both for refurbishment and new build.



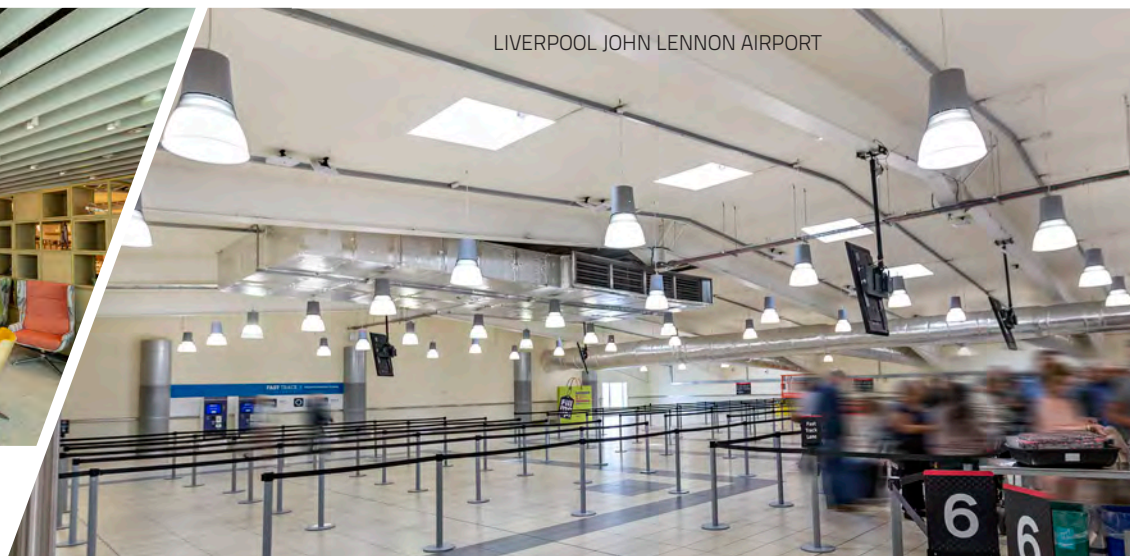
LONDON GATWICK AIRPORT

BELFAST INTERNATIONAL AIRPORT



MANCHESTER AIRPORT
TERMINAL 2 VIP LOUNGE

LIVERPOOL JOHN LENNON AIRPORT



Bob Bohannon, Head of Policy and Sustainability at the LIA:



Image courtesy of the LIA.

"Different organisations are at different points on their sustainability journey, some have an awareness, others have partial plans, others are well down the road. What is clear is that manufacturers will increasingly be asked for information on their environmental impact, both of their operations and of their products in manufacture, in operation and at end of life.

We all know the phrase "what you can measure, you can manage" – so how do you measure sustainability? It is highly likely manufacturers will increasingly be asked for Environmental Product Declarations (EPDs) based on Life Cycle Assessments (LCAs). When good these are the 'gold standard' for the measurement of sustainability, but these are complex, need organisational training, a large amount of data, can be expensive and if the goal is only cradle-to-gate, or cradle-to-grave, do not cover circular economy.


This is where tools such as TM65 – Embodied Carbon and TM66 – Circular Economy come in, easy to use, low cost, industry recognised tools to measure at least part of your environmental footprint and for TM66 we now have TM66 Assured that important third-party accreditation of results.

Going forward, and as you engage with TM65 and LCAs you will need to understand your Scope 1, 2 and 3 carbon emissions, respectively: what your company emits directly (including vehicles); emissions from the energy you purchase; and emissions from your supply chain. Again, remember that we are always seeking continuous improvement and what we measure, we can manage.

It's always good to have goals, and here we can reference the UN's Sustainable Development Goals. Good lighting already helps to deliver some of these goals, for example lighting in schools and Goal



4 Quality Education. Street lighting and city beautification delivers Goal 11 Sustainable Cities. We've been leading the charge on Goal 7 Climate Action with our low energy, low CO2 products and designs and Goal 12 Responsible Consumption with TM66 and Circular Economy. But circling back to LCA's and EPD's, this is how we measure and manage goals 14 Life below water and 15 Life on land.

So, set your goals, choose your metric, measure and manage – your route to a greener future." 

The LIA
+44 (0)1952 290905
www.thelia.org.uk

"Manufacturers will increasingly be asked for information on their environmental impact, both of their operations and of their products in manufacture, in operation and at end of life."

Bob Bohannon,
Head of Policy and Sustainability, the LIA.



Lighting designed for places and people

Contemporary lighting solutions designed to enhance the beauty of outdoor spaces while also meeting the needs of both people and the environment

Exchange Square, Broadgate

Lighting Design: Speirs Major

Product: Pharola Max

Prime Light – always ahead of the curve in lighting solutions and controls

Now in their 31st year of operation, Prime Light Group are a leader in the UK commercial lighting industry. They provide components, controls, drivers, and custom and emergency lighting solutions for almost every type of business purpose and almost every type of business. As the commercial lighting and controls sector continues to develop at a rapid pace, we asked Prime Light's Head of Marketing, Lisa Heynes, about the company's products, purpose, and pursuit of innovation.



Prime Light provides more than two million products and a wide array of smart lighting solutions. That's a huge inventory. Do you truly support almost every UK industry, or are you only focused on some specific sectors?

With the vast range of products that we offer, we really do offer solutions to almost every industry. Our lighting components division Prime Components, is mainly focused on OEMs, M&E contractors, lighting wholesalers and architectural and construction organisations, but we're also working on some exciting projects for emerging industries in sectors such as transport, where we're delivering solutions for state-of-the-art train carriages, buses, and e-mobility innovation. Going in another direction, our Prime Controls division offers to all commercial industries who need large scale support with smart lighting installations. Right now, we're helping retail businesses, social housing organisations, schools, universities and more.

Are your customers all big national or multi-national companies, or do you also help SMEs?

We help businesses of all shapes and size. Our clients can be as varied as a retail chain with many locations across the UK, or a small or mid-sized OEM seeking components to build their luminaires. With more than two million products in stock, it's possible for a customer to come to us for the components to build a complete luminaire without buying from elsewhere. At the end of the day, solutions and service are what we're all about, and no matter if you're a giant or a small business, we always say to customers that if there is anything they need that we don't supply we can almost certainly find it for them.

Prime Light | GROUP

Book your FREE lighting energy audit today

sales@primelight.co.uk

Above image courtesy of Prime Light.

Is this all for lighting solutions, or do you provide other services, such as alarm or building management systems?

Our Prime Controls solution is a Building Management System (BMS) which can significantly reduce energy bills and lower the carbon footprint of the customer. We also offer an emergency lighting solution which ties into the BMS offering and eliminates the need for onsite maintenance. The BMS auto-tests

the emergency lighting for you, always keeping you safe and compliant.

If you look across your diverse customer market, what lighting product and service trends do you see, and how are Prime Light responding to them?

Cost and time savings and the pursuit of greener lighting and control solutions have become a focal point for many industries. Most of our customer base are



chasing these benefits. We've responded to their needs by developing solutions that increase reliability, reduce costs, support the race to net-zero, and enable the customer to use their time more efficiently. Our customers rely on us to provide the best answers to their lighting and control problems. They're buying into our high levels of expertise and the experience we've built up over 30 years in business.

Can you give a real-life example of this?

Of course. We offer a range of modular wiring solutions, which can support the engineering industry in reducing the time it takes to wire a luminaire. Because many of our products come pre-wired, effectively offering a plug and play solution, these solutions are attractive to large scale M&E companies seeking better time efficiency.

How does Prime Light's extensive inventory help your customers save time and money?

We work to provide a solution that will not only support our customers with a variety of options, but we can also provide a bespoke service, offering advice, supporting the specification process, drawing up lighting plans, working with manufacturers to create a final product and delivering a full end-to-end service to any type of lighting customer.

Is innovation a key element of the products and services Prime Light provides?

Absolutely. We are always working to offer a better, faster, more efficient and economical solution to our customers. This means continually developing and updating our range and always providing the right products at the right time for our customers. Our team are constantly on the hunt for new product lines and innovations to add to our inventory.

So, what are you doing to make sure you stay at the cutting-edge of lighting and building services technology? Is there anything amazing coming over the horizon?

There have been some significant advancements in the lighting industry in recent years. With rising energy bills and the journey to net zero at the forefront of business challenges, we are mindful of the fact that we're working towards the future, effectively supporting our customers to future-proof their buildings and stay ahead

of the curve. In terms of what is on the horizon, we've just started to deliver a project, part of a large national roll out, which is delivering up to 60 percent savings on electricity, without switching lights out. Companies are choosing Prime Light over the competition, as we can deliver smarter solutions, resulting in sizeable reductions in energy costs.

Lastly, what would you say to the CEO of a niche business that's outside the mainstays of your customer base. Can you still help them?

100 percent. It's always worth having a conversation. If we don't have an immediate solution for a customer, we will search for one, and, in the rare instance that we still can't help them with our products, I'm sure we could find someone who can. The fact is, we're always here to help, and the best lighting solutions and service are never more than a phone call away.

To discover more about Prime Light, their wide range of products, or to book a **FREE** lighting energy audit, please email sales@primelight.co.uk, visit www.primelight.co.uk or call **+44 (0)20 8968 2000**.



Top of the class

How can lighting aid child development and learning? The experts explain more about the recommended lighting for educational facilities and the benefits it provides.

Paul Jones, Sales Director UK & Ireland at B.E.G. UK Ltd.:



“Excellent lighting in schools is vital for educational purposes as the way a room is lit sets the scene for four main methods of learning for students: namely visual, auditory, read and writing, and sensory. The layout of most classrooms is typically rectangular in shape with teaching zones designed with sightlines parallel to windows that provide daylight to the space, as well as sensory simulation and visual contact with the outside world.

Daylight through windows generally provides illumination through much of the school day,

however, artificial lighting also plays a key role when a consistent visual environment is needed.

Typically, classrooms are divided into teaching zones and student areas. Teachers tend to require supplemental lighting for delivering vertical illuminance onto white boards and blackboards, as well as video screens and projectors. This may require the illuminance of the screen to be minimised while sufficient ambient light needs to be provided for students to take notes.

There are many other factors that need to be taken into account

when considering a modern-day lighting design of a classroom, including uniformity of lighting, contrast, colour, glare, flicker, reflections and modelling of objects. These can impact performance, mood, environment and health and wellbeing.

For decades, fluorescent lighting ion tubes have been used in educational spaces. However, they have many disadvantages when it comes to learning, including health risks which have generally been well documented over the years. This includes eyestrain, double vision,

*Images courtesy of
B.E.G. UK Ltd.*



"There are many other factors that need to be taken into account when considering a modern-day lighting design of a classroom, including uniformity of lighting, contrast, colour, glare, flicker, reflections and modelling of objects. These can impact performance, mood, environment and health and wellbeing."

Paul Jones,
Sales Director UK & Ireland, B.E.G. UK Ltd.



headaches and migraine, stress, poor concentration, reduced visual task performance, fatigue and even repetitive behaviour in autistic people.

Therefore, it goes without saying that LED fixtures are a must in a lighting design project. LED technology is highly energy-efficient, offers excellent controllability, high flexibility in terms of optical design, a high resistance to shock and vibration and a long lifespan.

Schools need to consider implementing an intelligent lighting design into any modern lighting of a building regardless of whether it is refurbishing old classrooms or opening entire new buildings. This is vital both for educational purposes and energy savings because it is one of the most effective ways for schools to use less energy by 'controlling' how it is used.

Modern motion and occupancy sensors are totally focused on ensuring that lighting is only used based on demand. These products are designed to consider the luminosity of the room in regard to natural light and engineered in such a way that the sensors automatically dim the artificial lighting to the required brightness. This means the sensor includes as much 'free' available natural light as possible in order that energy consumption is significantly reduced.

At B.E.G. UK Ltd., we offer 'presence-controlled building automation' in hundreds of schools which works automatically in the background so that the lighting is automatically switched and

dimmed. The room temperature and the cooling capacity are also reduced when rooms are not in use.

Overall, the foundation of any intelligent lighting design is that it integrates all human needs so that it cultivates a stimulating learning environment. With schools under pressure to be more environmentally-friendly and cut costs due to soaring energy and electricity bills – incorporating controls also provides the educational facility with substantial energy savings too.

We have seen schools, for example, use lighting control sensors make energy savings of up to 50 percent in a classroom, up to 60 percent in a main hall and up to 80 percent in student washrooms.

Educational facilities have a duty of care to make their buildings safe and as comfortable as possible for students and staff alike. Human centric lighting (HCL) is a wellness multi-sensor which is designed to control lighting based on time, presence and circadian rhythm with a 'tuneable white function'. This works by adjusting the colour temperature over a 24-hour period from warm white to daylight white and the illumination intensity from 500 to 1500 lux. The results, which have been scientifically proven, show improved human biological responses for enhanced concentration, alertness, and performance."

B.E.G. UK Ltd.
+44 (0)8708 505412
www.beg-luxomat.com



Curtis O'Donnell, Lighting Design Manager at Dextra Group plc.:

"When considering lighting solutions for educational buildings, many important aspects can easily be overlooked whilst attempting to balance financial goals with ideal learning environments.

Every premises is unique, making it impossible to engineer a lighting template that suits all schools, colleges and universities. A carefully considered lighting design that utilises quality LED luminaires alongside basic lighting controls will cater for the diversity whilst providing a pleasant, dynamic atmosphere. The introduction of lighting controls will ensure energy savings, daylight harvesting, comfort, versatility and specification compliance.

Utilising all available daylight is critical to creating a stimulating environment that positively impacts students and staff alike. The balance between natural and artificial lighting, goes a long way in keeping the body clock harmonised with the day and maximising concentration levels and learning abilities.

Limiting the amount of artificial lighting depending on the daylight available is achievable by using photocells that monitor the daylight contribution. These are programmed to dim the light fitting closest to the windows allowing the other fittings to maintain the overall illuminance and lighting uniformity. The fittings close to the interactive teaching boards can be simply dimmed by a push to make the switch, allowing the teacher to have full control and reduce the light whilst using the board. In order to only utilise the lights when the room is occupied, a movement detector can be utilised alongside a retractive switch, this will enable the lights to be switched on upon entry and remain on whilst presence is detected.

Whilst the horizontal and vertical illuminance levels are important, the lighting designer needs to consider the cylindrical illuminance too. Teaching is a mobile interactive activity, by considering the cylindrical illumination on the pupils faces you ensure that there will be a good level of visual communication

with the teacher. This will require good uniform lighting from all directions whilst ensuring that horizontal illuminance levels are between 300-500 lux and UGR is below 19.

Combining low energy LED downlighters with presence detectors commissioned to a minimum on time after last activation gives an elegant solution to communal and WC areas, whilst ensuring compliance and energy saving.

Sport halls will need to host many sporting activities and in most cases be used as exam halls. Due to the vast variance in lighting levels required, a conventional switching system does not provide an ideal solution. By introducing a simple scene plate that has multiple scenes and dimming capabilities, the areas can be commissioned to cater for all these activities without heavily impacting the budget."

Dextra Group plc.
+44 (0)1747 858100
www.dextragroup.co.uk

*Image courtesy of
Dextra Group plc.*



Discover More

asdlighting.com

+44 (0) 1709 374898

sales@asdlighting.com



- Opal, microprism or lens diffuser options.
- Surface, suspension or recessed mounting.
- 1180mm, 1480mm & 1740mm body sizes available.
- Black, white, anadonic brown & bronze colour finishes available.
- Direct / Indirect light available.

Skybeam



SkyTrack



- Surface, recessed or suspension track mount.
- 4 output options - 15W, 25W, 34W & 42W.
- 3 beam angle options - 15°, 24° & 36°.
- Black, white or titanium colour finishes.
- Die cast aluminium body.

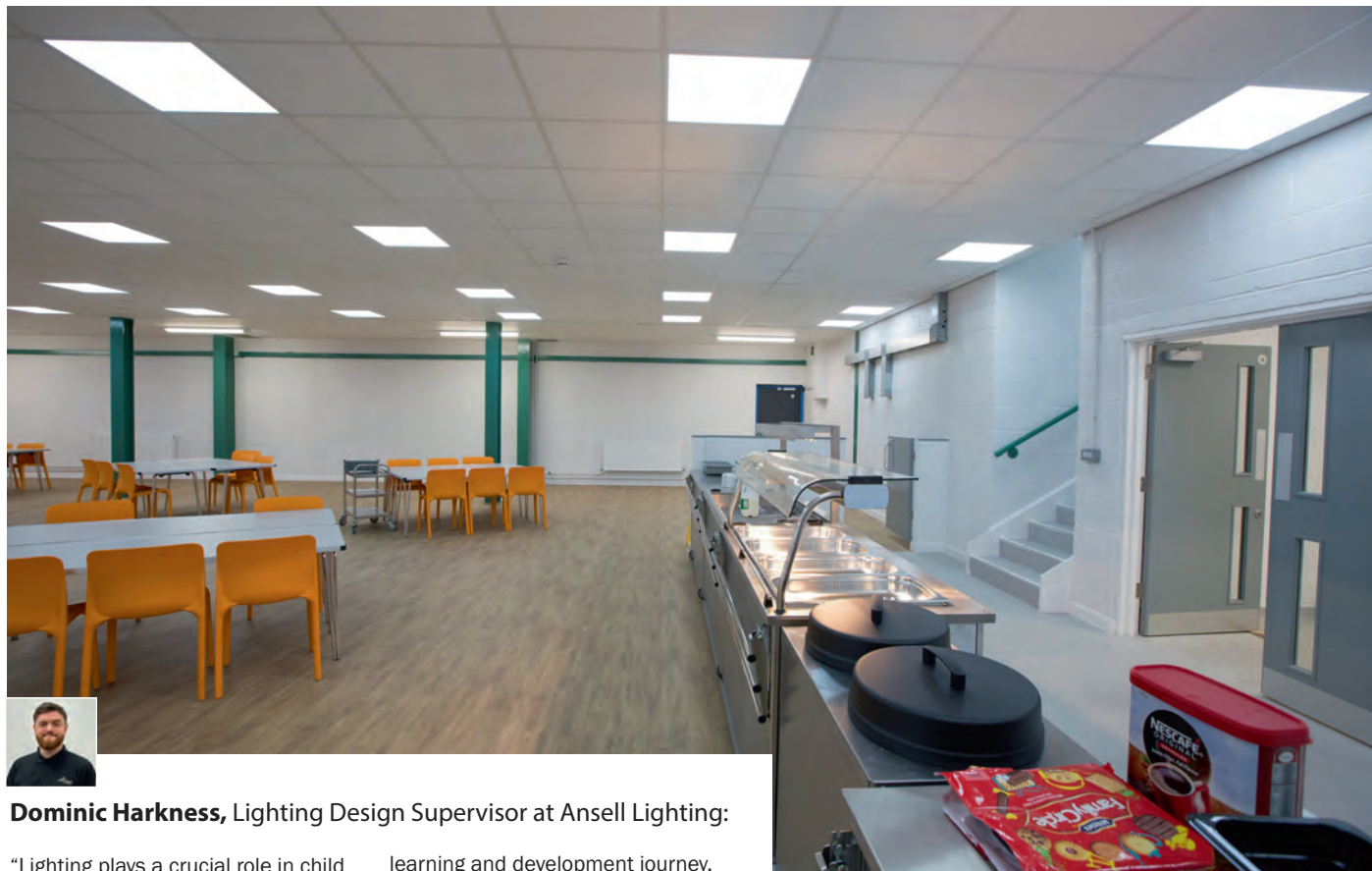


Array



- Opal, microprism or lens diffuser options.
- Recessed, surface & pendant mounting.
- Die cast aluminium body.
- From 1500 to > 6000 lumens.
- Manufactured in the UK.





Dominic Harkness, Lighting Design Supervisor at Ansell Lighting:

"Lighting plays a crucial role in child development and learning, with the right lighting having a huge impact on performance, motivation and wellbeing.

The most obvious role of lighting in any educational setting is to provide visual clarity, ensuring that rooms have the right level of illumination to help staff to teach and students to study. Well-lit environments reduce eye strain, prevent headaches, and promote visual development which is particularly important for tasks that require reading, writing or other visual activities. It is also vital for health and safety, minimising the risk of accidents, trips and other mishaps.

Lighting also has an important impact on the brain's ability to focus. Adequate lighting levels, free from glare and flicker, help children to pay attention and stay engaged, enabling them to better absorb information and improve productivity and performance. It is also one of the biggest influences on circadian rhythm, with a well-designed system resulting in better sleep quality, improved mood and emotional wellbeing, all of which are important elements in a child's


learning and development journey.

Lighting requirements not only vary between pre-school, primary school and secondary school settings but between individual learning spaces. Classrooms, sports halls, libraries, dining spaces and outdoor areas have a diverse set of requirements so employing an experienced lighting designer who understands how to best balance natural and artificial light sources is a must.

Typically though, for classroom and study spaces low-glare recessed modular, backlit panels, or surface/suspended linear fittings are ideal, ensuring visual comfort where users are working at desks or on computers. In sports halls, which are often used for a variety of activities, a flexible solution is often specified, incorporating fittings such as recessed panels alongside suspended lamps so that different lux levels can be achieved. Pendant lights are often most suited to dining areas whilst wallpacks, bollards, flood and streetlights are a must for outdoor space.

Regardless of the fitting chosen, perhaps the most important element of education lighting is that it is highly controllable,



enabling colour temperature and intensity to be altered to influence mood. Smart lighting systems are therefore essential, enabling cooler settings to be implemented to help students feel more alert and productive, or warmer settings to promote creativity, problem solving and establish a calm and soothing environment." 

Ansell Lighting
+44 (0)1942 433333
www.ansell-lighting.com

*Images courtesy of
Ansell Lighting.*



SPX Syclop Framing Projector

Gantom 7 RGBWWLUV

Teclumen Mini Pony Theatre Profile



SPX Mooveo HR Micro Spot



Mushroom Lighting Technology



Gantom Juni Framing/Gobo Projector

SPX Lighting ISCAD Budget Framing Projector

Lupo Film TV Dayled Fresnel

Teclumen Mini Pony Theatre Fresnel



Trade distribution of a large range of LED lighting products for TV, Film, Video, Museums, Events,
Retail display, from SPX Lighting, Teclumen, Gantom, and Lupo

Mushroom Lighting Technology Limited www.mushroomlighting.com **01604 790900**

PLASA Show returns to London this September

When: 3rd – 5th September 2023 **Where:** Olympia London, UK

Images courtesy of PLASA Show.



The world of live entertainment technology will once again convene at Olympia London from 3rd – 5th September for PLASA Show 2023. The key international show will connect more than 200 exhibitors with over 5,000 visitors, who can now register for free until 31st August. After this time, a registration fee of £15 will be introduced, which increases to £20 on the door.

PLASA Show will feature cutting-edge technologies from respected brands from across the stage and studio lighting sectors, including CHAUVET Professional, ETC, GLP,

TMB and Vari-Lite to name just a few. Many of which have featured in major events across the globe.

Furthermore, headline sponsor Robe will wow audiences with demonstrations of their lighting products in a vibrant new live performance show on their stand. The first of a trilogy, “Power of Imagination” is designed to thrill, entertain and wow visitors with a spectacular lightshow utilising some of Robe’s newest technology. The regular live shows will be interspersed with informative ‘Voice of God’ presentations highlighting product features and benefits. Products showcased on the Robe

In addition to the plethora of brands and new products, the three-day event will host over 70 keynote talks and interactive panel sessions.



OUR
RELIABILITY
IN ALL WEATHERS



ROBE

Images courtesy of PLASA Show.



"The 2022 edition of PLASA Show really put the event back on the international map, and we're excited to welcome back the world of live entertainment technology – in all its forms, from audio and AV to lighting and effects to staging and rigging. Whether you are a business director, creative specialist or technical end user, you'll have the entire industry at your disposal, all under one roof at Olympia London. See you in September!"

Peter Heath, Managing Director, PLASA.

stand will include its latest IP rated iSeries - iFORTE® FS, iESPRITE®, iPAINT®. iTetra2™, iBeam350™ - as well as its newly launched FOOTSIETM and T-series fixtures such as T1, T2, T11 and TX1 PosiProfile.


In addition to the plethora of brands and new products, the three-day event will host over 70 keynote talks and panel sessions. Across four theatres, visitors will hear thought-leaders and technical experts discuss some of the most talked-about industry issues. This year's programme includes technical sessions on the Avolites Titan console and ETC Hog 4, as well as creative sessions on the Olympic ceremonies with lighting designer Durham Marengi, storytelling with Women in Lighting, and Eurovision with lighting designer Tim Routledge.

In addition to the talks and panels, PLASA Show offers plenty of practical training sessions and immersive demonstrations. These offer golden opportunities for visitors to get hands-on with – and up close to – highly acclaimed products, accompanied by bespoke advice from knowledgeable brand representatives. Last year's show saw visitors try out the Robe Robospot and the latest generation of consoles and software from ChamSys.

The PLASA Awards for Innovation also makes a return this year, with the Innovation Gallery featuring all of the nominees right on the show floor. The lucky winners will be

announced on the Monday evening of the show (4th September) in an intimate ceremony. Last year's winners included Artistic Licence who scooped the Sustainability Award for their Microscope upgrade kit, and Ayrton who scooped Gold for Cobra. Minuit Une, Robe and Sauca were among the brands that took home Innovation Awards. Furthermore, JB Toby, Technical Director of Avolites was presented with the highly respected Gottelier Award for his contribution to product development.

Peter Heath, Managing Director of PLASA, said, "The 2022 edition of PLASA Show really put the event back on the international map, and we're excited to welcome back the world of live entertainment technology – in all its forms, from audio and AV to lighting and effects to staging and rigging. Whether you are a business director, creative specialist or technical end user, you'll have the entire industry at your disposal, all under one roof at Olympia London. See you in September!"

For more information and to register for free until 31st August, visit the PLASA Show website. 

PLASA Show
www.plasashow.com
 @plasashow
 #PLASASHOW

Information correct at time of press.



PLASA
 SHOW

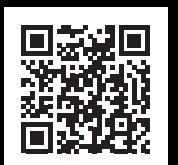


The three into one generic solution



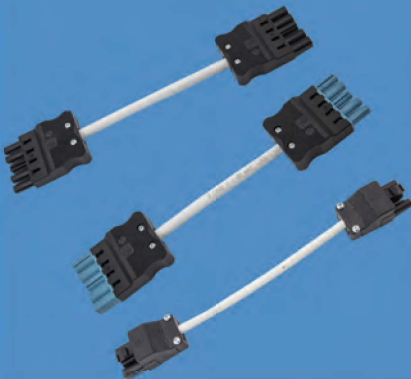
PROFILE PC FRESNEL

ROBE®



metway

EST 1937



Contact us for more information
sales@metway.co.uk | 01273 431600 | www.metway.co.uk



MCC



Addressable



MDCC

Metway Lighting Controls

Spotlight on the home

We find out how best to light a residential property to meet the different demands of each area of the home alongside an interesting case study.



Emily Bedwei, Senior Designer at Lighting Design International:

"It is important to assess the demands of each room in the home: how we use each space in our daily life, the time of day we use each space and what natural light is available. This all plays a part in the levels and type of lighting needed. Lighting – when used well – can enhance living spaces, creating the right ambience and supporting their functionality at different times of the day.

We always stay clear of adding a grid of wide beam downlights as this does little to enhance architectural features or the interior design. Making sure each lighting element has a function and a reason is key. If lighting is used intelligently, it can transform a space and can be the hidden secret to its success.

With the exponential rise of open plan living, we have to consider the different functions

of the spaces that are combined into one area, ensuring they are functional and fit-or-purpose, as well as attractive and cosy. Especially when you are in a multi-zonal space like a kitchen/diner/snug. Pendants hung over tables or island units create focal points and downlights – doubling up as functional lighting – can support the flow of activity in the open plan space. Thinking about the 5amp locations to enable strategically placed floor or reading lamps will also provide soft lighting around the perimeter of the space, ensuring there are no gloomy corners and making the space appear larger.

Once we have considered the decorative lighting, we can start to look at accent lighting. Downlights can add drama to highlight art; pin spotting a coffee table, highlighting the curtains or washing the door

fronts. Delicate use of downlights is crucial – especially as we layer the light using a combination of different lighting elements and focus on objects with different beam angles. Dimmed to the right intensity for the time of day and how the space is used, enables a lighting scheme to be developed and balance a room perfectly.

Concealed task lighting such as linear LED strip lights integrated into shelving or within glass-fronted cabinetry within the kitchen or TV units, a lighting designer will always go to great lengths to ensure concealment, to enjoy the effects of the light without seeing the source."

Lighting Design International
+44 (0)20 8600 5777
www.lightingdesigninternational.com

*Photo credit:
Andrew Beasley.*



Mara Rypacek Miller,
Managing Director of Industville Ltd:

*Images courtesy of
Industville Ltd.*

“When it comes to lighting a residential property, quality and craftsmanship are key. Handcrafted lighting can set the tone for any space, bringing together both form and function. It is equally as crucial to address the unique needs of each area within the home. By tailoring the lighting design accordingly, you can create a comfortable, functional and visually appealing environment throughout.

In spaces like the living room, combine ambient, task, and accent lighting. Use overhead fixtures

or recessed lights for overall illumination. Add table or floor lamps for task lighting in reading nooks or seating areas. Incorporate wall sconces or track lights to highlight artwork or architectural features.

For the kitchen, a balance between task and ambient lighting is crucial. Install bright, evenly distributed ceiling or pendant lights to ensure ample illumination for food preparation and cooking. Under-cabinet lighting is ideal for illuminating work surfaces.

Combine ambient and accent lighting in the dining room. Use a chandelier or pendant light as the focal point for ambient lighting. Supplement with wall sconces or lamps for a warm atmosphere.

Bedrooms require a versatile lighting scheme that accommodates different times of the day. Start with ambient lighting, such as ceiling fixtures or recessed lights, to provide general illumination. Incorporate bedside table lamps or wall-mounted reading lights for task lighting.

Proper lighting in bathrooms is essential for tasks like getting ready and applying make-up. A combination of ambient, task and accent lighting is recommended. Ceiling or recessed lights offer

general illumination, while wall sconces on either side of the mirror provide balanced task lighting. Consider additional overhead or recessed lights in the shower area.

Prioritise task lighting in the home office. Position a desk lamp for focused lighting and supplement with ambient lighting to create a comfortable working environment.

In outdoor spaces such as gardens and driveways, balance functionality and aesthetics. Install well-placed fixtures along pathways and stairs for safety. Use accent lighting to highlight architectural features or landscaping elements.

Dimmer switches and smart lighting systems offer significant benefits for residential properties. Dimmers allow homeowners to adjust the intensity of lighting, creating the desired ambience and mood for different occasions. Smart lighting systems provide added convenience and energy efficiency, allowing users to control and automate lighting settings remotely via smartphones or voice commands, enhancing comfort and reducing energy consumption.”

Industville Ltd
+44 (0)20 7971 7871
www.industville.co.uk



Images courtesy of Vivo Casa, Cerebrum Systems and Rako Controls.

Peter Broome, Director at Rako Controls:

“A residential lighting scheme has the ability to be so much more than simply being on or off. Incorporating a sophisticated lighting control system allows designers to define different spaces, set the mood, as well as optimise life’s daily activities.

The way we live in our homes has been changing, we want versatile spaces that can adapt and that means we need the lighting to do the same. Smart lighting controls allow you to create different scenes, which follow the flow of the day and the use of the space. For instance, our Rako Modular keypads can accommodate up to 12 push buttons in a variety of lighting, shading and audio control configurations, so with just a touch of a button, the room can be transformed to match its purpose. On a recent project, Rako’s lighting controls were installed on a project to set a specific ‘night-time feed’ scene for a young family with a baby, where the lights turned on at 10 percent giving enough visibility whilst maintaining a calm atmosphere that did not shock

the sleep cycles of the parents with bright light. It is a beautiful testament to how the lighting in the home can be personalised to reflect not only our aesthetic desires but also our lives.

Residential lighting projects often evolve over time as the homeowners understand or change their requirements. So, it is key when approaching a lighting design that you can access technology that will be flexible when these moments arise. At Rako, we have designed our wired and wireless systems to seamlessly communicate, so additional functions can be incorporated at a later date without the disruption of rewiring.

Every home has a unique and individual décor and that is why the aesthetics of a keypad is as important as the functionality. Rako offers a number of keypad ranges and different finishes that will suit a broad range of interiors, from classic to contemporary.”

Rako Controls
+44 (0)1634 226666
www.rakocontrols.com



DANLERS

Mini PIR Sensor Range

NEW



with separate power pack with connector

- ◆ A new range of passive infra-red occupancy detectors, switches and dimmers
- ◆ Quad digital person detector with adjustable photocell and time lag functions
- ◆ Mini detector head is ideal for false or plasterboard ceilings, or for fitting into a luminaire
- ◆ Ideal for energy-saving automatic lighting control
 - ◆ Detection range options of up to 7m diameter at 5m mounting height or up to 24m diameter at 17m mounting height
 - ◆ Output options include Mains Switching, DALI, 0-10V and Ecosystem Signal Only
 - ◆ Versions for DANLERS ISI smart app programming
 - ◆ Versions for use with leading Ecosystems

CASAMBI

INGY



SILVAIR

DANLERS
Smart ISI range



For further details, visit our website or give us a call



T: +44 (0)1249 443377

E: sales@danlers.co.uk

www.danlers.co.uk

DANLERS Limited, DANLERS Business Centre, Vincients Road, Chippenham, Wiltshire, SN14 6NQ, UK

- ◆ PIR occupancy switches ◆ Photocells ◆ Daylight-linked dimmers ◆ Microwave detectors ◆
- ◆ Time lag switches ◆ Remote controls ◆ Dimmer switches ◆ HVAC controls ◆ OEM products ◆

CASE STUDY



Sabrina Fiorina, Design Associate at John Cullen Lighting:



"The brief for this London project was to create a contemporary, relaxing environment for the clients and their family which worked from day through to evening.

In the living room, we wanted to create a welcoming, warm space. Concealed Contour LED strip in the back of the shelves on either side of the fireplace put the objects on display into silhouette. This creates a subtle yet dramatic effect, adding a layer of interest and focal point within the room. We concentrated the light over the coffee table using 4 Polespring 30 downlights on each side of the decorative pendant to create a soft, intimate glow at the centre of the room.

To add drama to the entertainment space, we chose Contour LED strip within a profile to create a contemporary floating effect within the bar, with discreet Minim joinery downlights to shine down through the glass bottles. We carefully designed the details so that the LED strip was carefully positioned to avoid any reflection being visible at the back of the unit.

The staircase was an integral aspect to light as it formed the

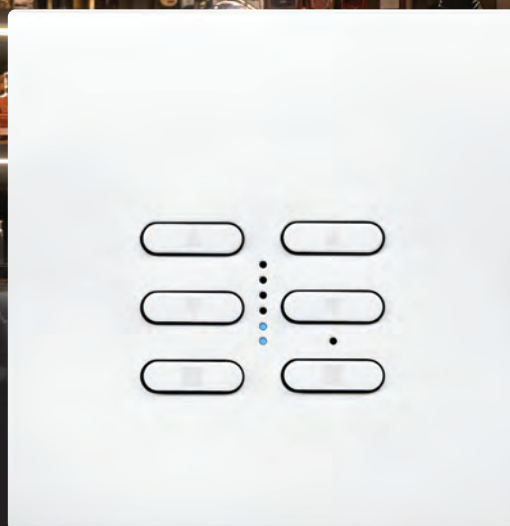
core of the house, linking the floors together. Chandeliers were designed within the scheme, to hang between the floors and add continuation and flow to the lighting scheme. To provide a more practical layer of light to guide down the staircase, Lucca 30 steplights were integrated into every other tread. These were installed on a PIR sensor to provide guidance at night.

As part of the brief, we played with layers of light where possible to achieve a flexible and balanced lighting scheme throughout. Within the bathroom, several layers were included; Cazalla floorlights behind the bath to provide accent lighting, and Lucca 30 downlights in the niches to create interest. A few downlights were included for general illumination. The bathroom was controlled on a conventional dimmer which provided bright light during the day but allowed the space to become atmospheric and relaxing at night."

John Cullen Lighting
+44 (0)20 7371 9000
www.johncullenlighting.com

Interior design: Helen Stiles, Hide & Seek.
Joinery: HUX London.
Photography: James Balston.





Wise Fusion Smart | LED Dimmers

Our Wise Fusion Smart Dimmers are a retro dimmer based around two technologies: electronic dimming and wireless communication. Now with a neutral for improved LED dimming.

- *Replaces conventional dimmer switches*
- *Multi-way dimming from multiple positions*
- *LED compatible without minimum load*
- *Scene setting programming available*
- *Available in a huge range of finishes*
- *App controlled via Wise Daisy Hub*

AVAILABLE AT



020 8874 2234 | info@mr-resistor.co.uk

www.mr-resistor.co.uk

Get clued-up at



When: 21st September 2023 **Where:** Royal College of Physicians, London, UK



The first ever Circular Lighting Live conference and exhibition in 2022 was a sell-out success. It is back for 2023 with capacity increased by 30 percent and even more exhibitors.

Established by Ray Molony and Recolight, and supported by the ILP, the LIA, the Green Light Alliance, and others, the event is a vital step on the lighting industry's journey to a low carbon, circular economy.

The event brings together the leading experts, specifiers and policy makers to share their insights into forthcoming standards and legislation, emerging technologies and new business models.

Aimed at manufacturers, suppliers, and specifiers, the event gives delegates vital insights that will drive their businesses forward and ensure they stay at the forefront of the sustainable lighting revolution.

Outlining the importance of the event, Recolight CEO Nigel Harvey, said, "The circular economy was once a fringe consideration in the lighting industry. But it is rapidly becoming mainstream as lighting specifiers and end users demand changes in design and more metrics to comply with their growing climate aspirations."

Programme design

Delegate feedback from Circular Lighting Live 2022 and the Recolight Remanufacturing Lighting Conference told the organisers what you wanted to hear. It told them the challenges manufacturers, specifiers and end users are facing, and the topics they need to understand. Ray Molony and the Recolight event team have used this to tailor a programme for the evolving needs of lighting industry.



Images courtesy of Circular Lighting Live.

Specifiers and manufacturers

There are two separate streams in the morning, one for lighting specifiers, and one for lighting manufacturers. Topics to be covered include key specifications for circularity, embedded carbon, and lifecycle assessments, along with best practice case studies, and end user and specifier panels on the steps they expect lighting producers to take.



Exhibition: Innovations in circular lighting

The exhibition hall will feature innovations in circular lighting from major brands including:

Platinum sponsor: Signify

Gold sponsors:

ASD Lighting PLC
Casambi
EGG Lighting
FUTURE Designs
Holophane Europe Ltd
The Regen Initiative
Smart Systems UK
TRILUX
Urbis Schreder

BELL Lighting
Commercial Lighting Systems
Feilo Sylvania UK Ltd
Glamox Luxonic
Llumarlite Lighting Solutions
Silent Design
Synergy Creativ
TRT Lighting

With support from silver sponsor, Applelec.

The exhibition space will be accessible throughout the event and will host an evening drinks reception.

ReCOLlight WEEE COMPLIANCE + MORE

Reduce Raw Material



Recolight is the leading UK WEEE compliance scheme for lighting, taking on responsibility for its Members' WEEE compliance.

With Recolight, recycling for lamps and luminaires is free.
But Recolight go beyond recycling.

Working with the lighting industry, Recolight offer support and services to help their Producer Members transition to a Circular Economy.

With a **Re-use Service, workshops, webinars, Circular Lighting report, and Circular Lighting Live, Recolight is the Compliance Scheme that gives you much more.**

Visit
www.recolight.co.uk

*Subject to minimum quantities and fair use policy.

Image courtesy of Circular Lighting Live.

To register and learn more visit
www.circularlighting.live



Programme Highlights

Keynote: Reimagining the lighting industry

How to prepare for an 'avalanche' of green regs - Maurice Maes, Head of Standards and Regulations at Signify in Holland, gives an essential update on the regs and how they will affect us all.

Sustainability measures in the public lighting sector

Case study: Dublin Port Tunnel

How to navigate the environmental data jungle - EPDs and LCAs, what's the best strategy to minimise costs while maximising opportunities in the market?

Circularity Mapping – Waste reduction strategies in lighting manufacturing

How to use recycled plastics in luminaires - Robert Sant, AO.com's Group Recycling Director, explains how.

Dragons' Den: Innovations in circularity

TM66: The important changes in the next version - Bob Bohannon, Head of Policy and Sustainability at the LIA takes us through the changes.


A creative solution to Cat A fit-outs and luminaire take back - Nigel Harvey, CEO of Recolight, explores solutions to waste from Cat A commercial office fit-outs.

Circular Place: Closing the loop on used luminaires - Francesca Cameron, Collections Development Coordinator at Recolight.

Case Study: Rolls Royce

Case Study: The Building Crafts College, London - John Bowden, Principal of Silent Design, and Cliffe Tribe, UK Specification Manager at Casambi Technologies.

Panel Discussion: Connecting the dots - Manufacturers feel that specifiers are demanding diverse, onerous and expensive environmental data. Lighting designers feel that manufacturers are slow to comply with requests for information. How can the supply chain work better together?

Plus, dedicated morning designers track. 

Information correct at time of press.

What attendees said last year:

"An incredible insight into the drive and passion in the lighting specifier community for innovation and creativity in the workspace without compromise to the wellbeing of our people and our planet's future."

Mark Bonner, Data Centre and Specification, Signify UK.

"This was one of the best conferences in lighting I have been to. The quality of all speakers and the content they delivered was very high."

Michael Gorman, Director, EPME LTD.

"Best circular economy event I have ever been to..."

Scott Pengelly, Project Manager, DFL-UK.

"Circular Lighting Live blew me away - the passion and presentations were eye-wateringly mature compared to other market sectors. Honest and inspiring, the industry efforts of the presenters and their circular pathfinding exemplars were incredibly encouraging and the calibre of the conference content, coordination, audience and marketing were all of an exceptionally high standard."

Chaline Church, Founding Partner, 540 WORLD.

"I left Circular Lighting Live energised, excited and with a head full of ideas...can't wait for next year!"

Tom Ruddell, Lead Remanufacture Engineer, EGG Lighting.

WEEE Recycle

Lamps, electrical items & batteries



BATTERIES & ELECTRICALS

As a non profit organisation, Recolight can offer a **low cost** recycling service. Giving you a complete WEEE service.



FREE LAMP RECYCLING

FREE collection and recycling and **FREE** container for sites collecting over 1000 lamps each quarter. Options available for smaller quantities.



WEEE GUIDE YOU

A team of WEEE experts to help with your **paperwork**. All consignment notes are **FREE**.



WE COVER THE UK

Recolight operate the UK's **largest collection network** for fluorescent and LED lamps.

Sign up on the Recolight website:

www.recolight.co.uk
info@recolight.co.uk

ReColight
Reuse | Recycle.

Or talk to our team of WEEE experts:

020 8253 9750



We have lift off!

TM66 really gets into its stride with rapid uptake and more tools. The LIA tells us more.

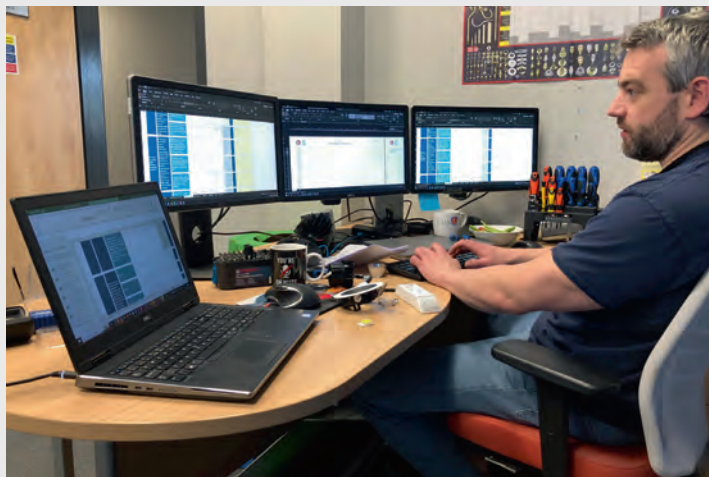
In today's era of heightened environmental awareness, the concept of a circular economy has gained significant traction. Among the various initiatives focusing on sustainability, TM66 stands out as a timely and accessible solution. In this LIA Insight article, we explore the growing significance of TM66 and the recent launch of TM66 Assured on 27th June – as part of London Climate Change Week. TM66 was developed by the industry, for the industry to foster a circular economy, and contribute to the collective effort of preserving our planet – TM66 Assured delivers the all important third party validation, enhancing credibility and comparability of TM66 scores.

The buzz and recognition

The widespread discussions and references to TM66 in various forums and meetings indicate the significant attention it has garnered. Notably, at the LIA Sustainability Illuminated Roundtable, TM66 has been acknowledged as “a groundbreaking initiative”. Professionals across industries have recognised its potential, with manufacturers proudly proclaiming their adoption of TM66 at events like the ILP Professional Lighting Summit in Manchester. Furthermore, the influence of TM66 extends beyond the lighting sector, as during a wider electrotechnical industry meeting which was focused around digitisation, organisations expressed their desire to implement a similar framework in their respective industries – indeed some of this work is already happening. This work proves the value of TM66, on a product spec we used to quote lumens, IP rating, CRI etc. – now it's simple to state a recognised metric for circularity – a TM66 CEAM rating.

From words to action

While it is encouraging to witness the growing support and recognition



Images courtesy of the LIA.

for TM66, it is crucial to emphasise the need for tangible outcomes. TM66 was conceived with the primary objective of instigating change and fostering a circular economy within the lighting sector. Actions speak louder than words, and TM66 Assured has been specifically designed to deliver on these promises. The official endorsement and development of TM66 Assured by CIBSE and its delivery by the LIA provide a robust framework for third-party validation of sustainability claims. This ensures the trustworthiness, relevance, and comparability of sustainability practices within the industry.

TM66: A comprehensive solution

TM66 offers a comprehensive toolkit for achieving a circular economy in lighting including guidelines (TM66 itself), metrics (TM66 CEAM) training (LIA delivered and CIBSE endorsed) and now third party validation (again LIA delivered and CIBSE endorsed).

The guidelines set forth in TM66 act as a blueprint for sustainable practices, helping organisations navigate the complexities of the circular economy. These guidelines are complemented by a robust

CEAM metric system, enabling companies to measure and track their progress effectively. By employing third-party verification to these standardised metrics, TM66 Assured ensures consistency and facilitates meaningful comparisons across different entities within the lighting industry.

Moreover, TM66 places significant emphasis on knowledge dissemination and capacity building. Through comprehensive training programs, professionals in the lighting sector can develop the necessary skills and understanding to implement sustainable practices effectively. By equipping industry stakeholders with the knowledge and tools to embrace the circular economy, the LIA's TM66 Training empowers them to be catalysts for change.

And it's still a by the industry for the industry process, the TM66 founding partners team made up of manufacturers, specifiers and associations ensure that next developments are well founded and useful.

The call to action is clear: embrace TM66 and be a part of the solution to create a better, more sustainable world.

THE LIA INSIGHT

For information on testing, certification, or membership, contact the LIA on
+44 (0)1952 290905 or email
enquiries@thelia.org.uk.





theLIA

TM66 ASSURED



CONFIDENCE IN CIRCULAR ECONOMY CLAIMS



ACCURATE AND CONSISTENT TM66 SCORES FOR LUMINAIRES



PROMOTES TRANSPARENCY AND CREDIBILITY



ADVANCES THE LIGHTING INDUSTRY'S CIRCULAR ECONOMY PRACTICES



PRICING:

To participate in the TM66 Assured Product Verification Scheme, there are costs and fees associated. The pricing structure is designed to accommodate different scenarios based on factors such as membership status (LIA member/non-member), the number of tests requested, and the size of the product family. We understand that each organisation's needs and requirements may differ, and therefore, the pricing is flexible to ensure fairness and affordability. Please refer to the pricelist provided for detailed information on the costs associated with participating in the TM66 Assured Product Verification Scheme.

For full terms and conditions, head over to our website:

thelia.org.uk/TM66_Circularity



TM66
CIRCULARITY
LIA | CIBSE

LIA MEMBER RATES

PRODUCT

SMALL PRODUCT FAMILY*

LARGE PRODUCT FAMILY*

	% uplift or discount		+15	+25
Single test		£200	£230	£250
2-5 Tests	-10	£180	£207	£225
6-10 Tests	-15	£170	£196	£213
11-15 Tests	-20	£160	£184	£200
16-20 Tests	-25	£150	£173	£188

NON-MEMBER RATES

PRODUCT

SMALL PRODUCT FAMILY*

LARGE PRODUCT FAMILY*

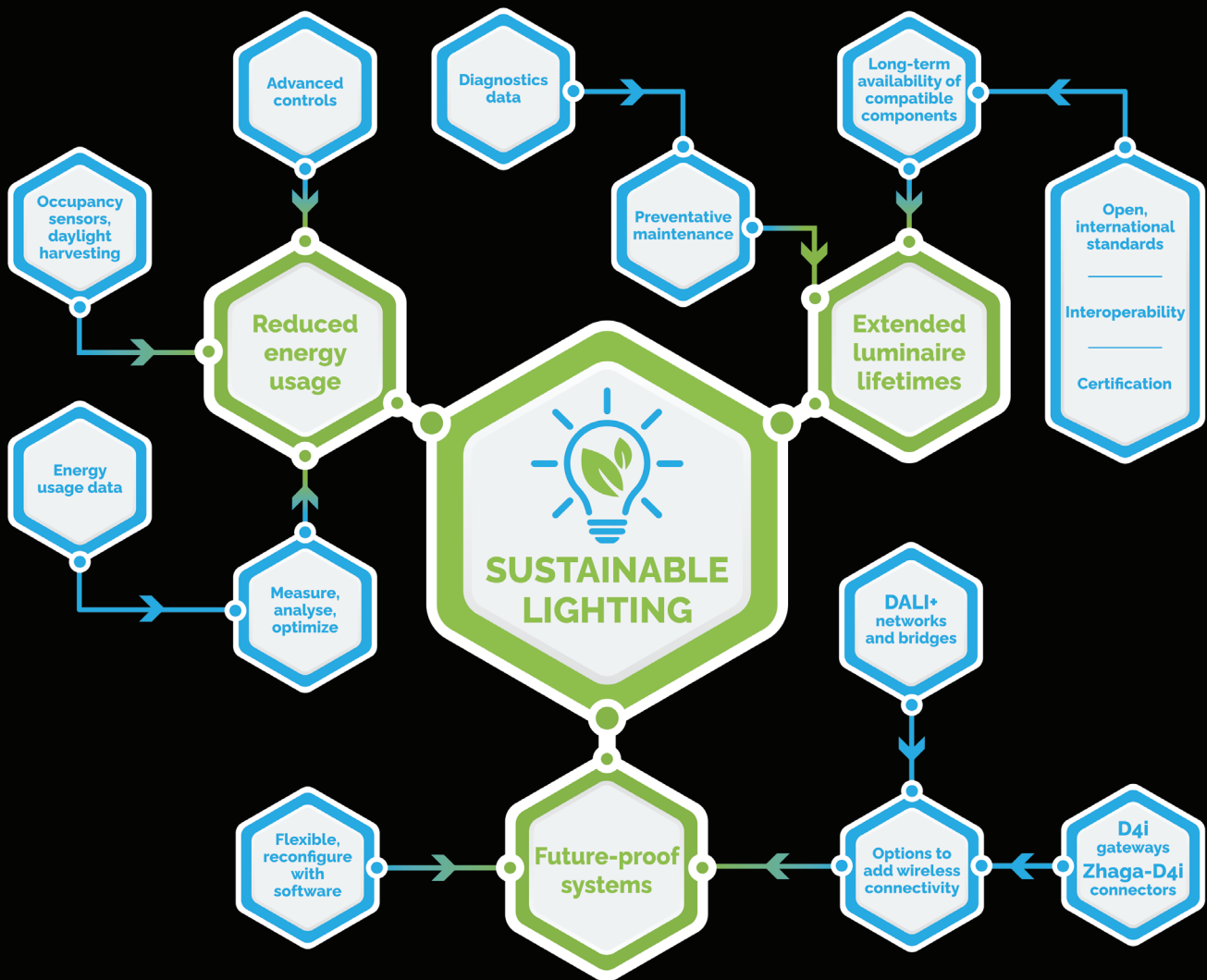
	% uplift or discount		+15	+25
Single test		£400	£460	£480
2-5 Tests	-10	£360	£414	£432
6-10 Tests	-15	£340	£391	£408
11-15 Tests	-20	£320	£368	£384
16-20 Tests	-25	£300	£345	£360

Eyes On...

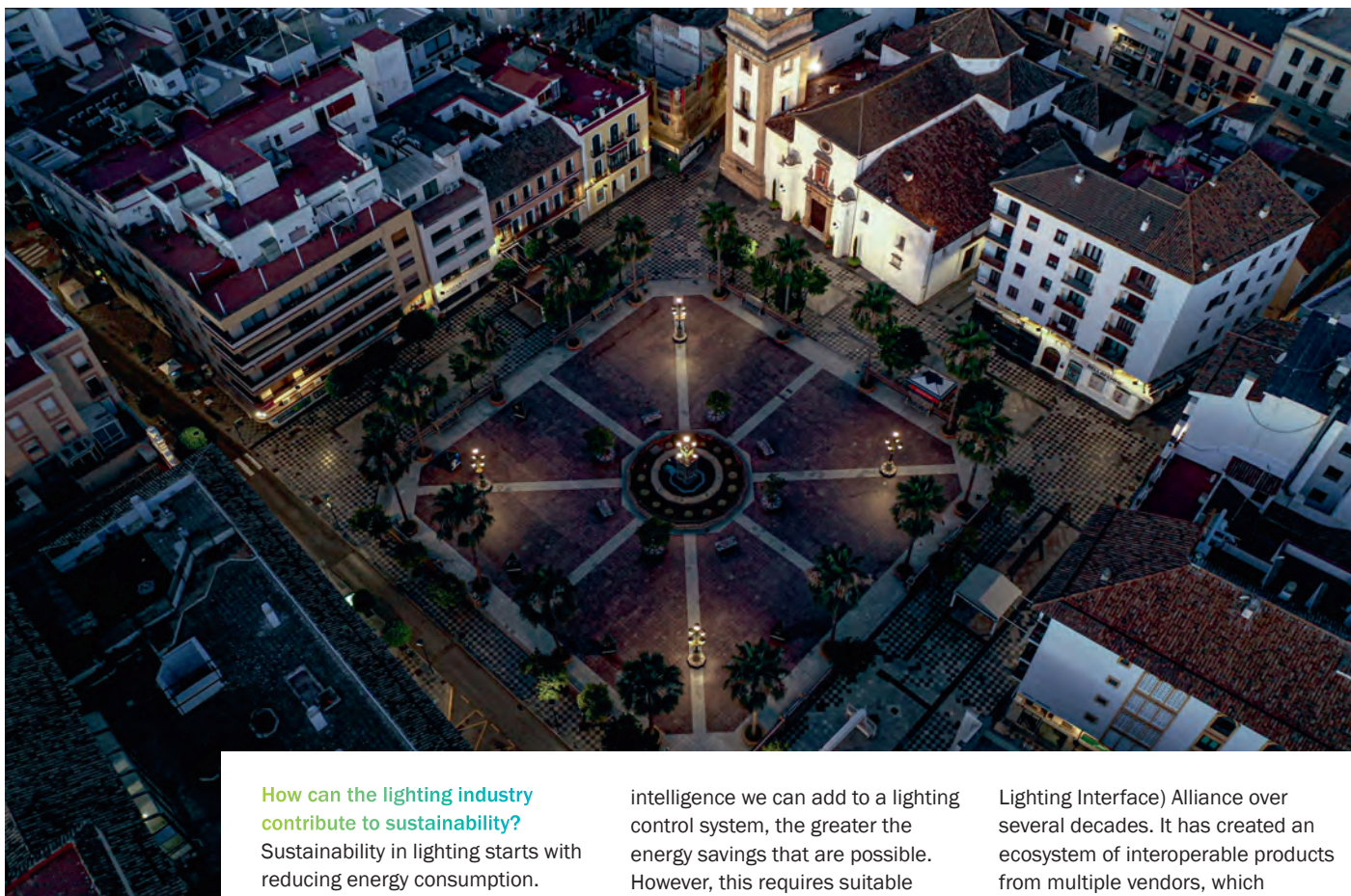


Paul Drosihn, General Manager of the DALI Alliance tells A1 Lighting how lighting professionals can address growing customer concerns about sustainability and energy efficiency.

DALI and sustainable lighting



Above: How DALI supports sustainable lighting. Source: DALI Alliance.



Above: The town of Algeciras in Spain has achieved an energy saving of more than 50 percent thanks to its new DALI LED street lighting system.
Source: Signify.

How can the lighting industry contribute to sustainability?

Sustainability in lighting starts with reducing energy consumption. Lighting typically accounts for around 20 to 30 percent of total energy costs depending upon the building type, so the potential savings are significant. The energy efficiency gains achieved by using LED light sources can be improved further using simple control techniques like switching and dimming or more sophisticated lighting control systems that can sense occupancy or light levels and adjust the lighting accordingly.

In addition, the lighting industry can contribute to sustainability goals by seeking to reduce the amount of materials used in lighting products and packaging. We can also design products that are easier to recycle and last longer. Products that can be reused, refurbished, upgraded and recycled offer the potential for less waste, lower energy consumption, and deliver financial savings throughout their lifecycle – all of which contribute to improved sustainability.

What are the challenges in delivering more sustainable lighting?

In principle, the more sophistication, functions and

intelligence we can add to a lighting control system, the greater the energy savings that are possible. However, this requires suitable software that is intuitive and user-friendly, plus straightforward controls and user interfaces that building occupants can understand and use. So, complexity is one big challenge.

Non-compatibility of lighting products is another. Ideally, lighting specifiers and installers should be able to select the most sustainable lighting solution regardless of manufacturer. In reality, delivering the optimal sustainable lighting system can be hampered because the best products for the application simply won't work with each other. While a short-term solution may be to source everything from a single supplier, this can have implications for later system extensions and upgrades because these proprietary solutions may not be supported in the future.

How can these barriers be overcome?

Standardisation based on open protocol products can overcome the barriers to more sustainable and energy-efficient lighting. One example is the DALI-2 certification program, developed and maintained by the DALI (Digital Addressable

Lighting Interface) Alliance over several decades. It has created an ecosystem of interoperable products from multiple vendors, which ensures the long-term availability of compatible components and avoids issues commonly associated with vendor lock-in to deliver improved sustainability (see left).

DALI-2 certification provides both forward and backward compatibility and is supported by all major players in the lighting industry. Future-proofing is enabled at the luminaire level by the Zhaga-D4i connector system, which facilitates plug-and-play replacement of luminaire-mounted sensors and communication nodes. Zhaga-D4i combines the standardised mechanical interface from the Zhaga Consortium with the communication and power requirements specified by the DALI Alliance.

Standardised certification like this is inherently flexible and supports future-proof designs that extend the useful life of a lighting control system and make it more sustainable. For example, changes to the design of a DALI system and how it is operated can often be dealt with by software reprogramming rather than having to rewire or replace luminaires and other equipment. This could allow a building operator to easily change the space utilisation to accommodate new tenants.

How does an open protocol lighting system improve energy efficiency?

An open protocol lighting system like DALI can significantly improve energy efficiency by being more adaptable to occupants' needs. For example, most commercial buildings have poor lighting efficiency because the lights are on even when the illuminated spaces are not in use. While simple timers may ensure lights go out at some point, a much more effective approach is to adopt an automated, open protocol lighting control system incorporating sensors to detect criteria including occupancy, movement and daylight levels. This approach facilitates 'daylight harvesting', which takes into consideration factors such as the time of day, the sun's position in the sky and even the time of year, thus minimising energy consumption.

Can you give a real-life example of sustainable lighting in action?

The new Grafton Way Building at University College London Hospital is one good example. This 11-storey building (of which five floors are below ground) has been fitted with a DALI lighting system that helps to minimise energy usage, enhance sustainability and optimise operational efficiency. Precise dimming and scene-setting in response to daylighting and occupancy enable flexible lighting schemes in different hospital areas, improving the comfort and well-being of patients and occupants. The lighting system contributed to the building receiving BREEM Highly Commended certification, a challenge to attain in a highly-serviced healthcare building with energy-hungry medical equipment.

A second example comes from Spain, where the town of Algeciras has replaced its old street lighting with a DALI-based LED lighting system. The town has achieved an energy saving of more than 50 percent overall compared to the previous lighting system.

What other benefits does lighting standardisation offer?

For specifiers and installers, lighting



standardisation brings peace of mind because the products are compatible with one another, which reduces the likelihood of errors and faults and enables the system to be programmed using the same software.

The open protocol also means that the system is fully future-proofed, which delivers long-term sustainability and not just an immediate fix. If one manufacturer disappears from the market, maintaining or replacing luminaires and other components will not be an issue. With all the components speaking the same language, it is also easier to generate meaningful reports about energy usage, allowing users to spot issues and trends to make their building even more efficient.

What lighting trends can we expect to see next?

The increased connectivity offered by open protocol, intelligent lighting systems opens up exciting new prospects for facilities managers and building owners, as well as lighting engineers. Big data enables energy consumption to be monitored and measured rather than guessed. It can also provide granular information about what's happening in specific areas of a building, or even inside individual luminaires, in real-time.

For example, LED drivers can report various operational and diagnostics data. In the near future, all lighting systems will be able to predict when individual components or fixtures should be replaced rather than undertaking a comprehensive replacement schedule after a fixed period of time. Employing a data-driven 'predictive maintenance' strategy can therefore realise significant savings, reduce waste and contribute to the overall sustainability of the lighting-control system.

To accelerate this trend, DALI has recently developed several data specifications to standardise the location and format of new data types that can be stored in control gear, such as LED drivers. This data – which relates to light sources, luminaires and the drivers themselves – can be used for asset management, energy monitoring, diagnostics, predictive maintenance, and many other applications.

Read our whitepaper 'How DALI Enables Efficient, Future-Proof Lighting Control Systems' for more information on this topic. Free to download here: www.dali-alliance.org/downloads/

DALI Alliance
+1 732 465 5852
www.dali-alliance.org

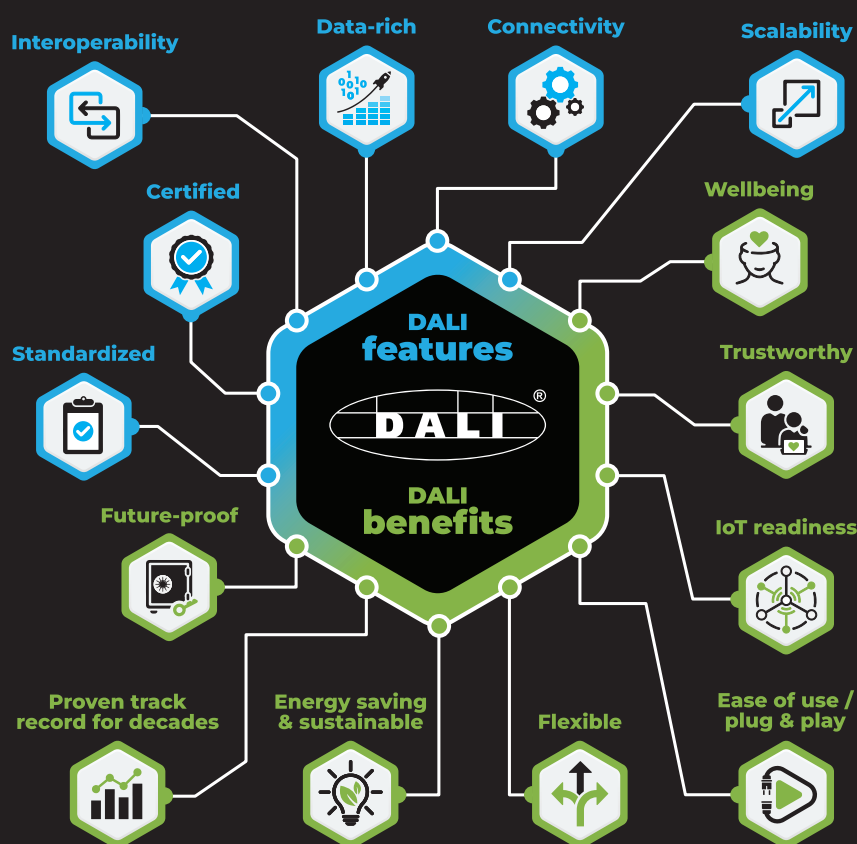
Above: The Grafton Building at UCL Hospital has been fitted with a DALI lighting system that helps to minimise energy usage and enhance sustainability. Source: Delmatic.

How DALI Enables Efficient, Future-Proof Lighting Control Systems

Designers, architects and building owners must consider a wide range of lighting-related issues, including sustainability, the circular economy, energy consumption, data and analytics.

Advanced lighting-control systems based on a global standard such as DALI can help to address all these issues.

Whatever the lighting system's requirements, standardization with DALI can deliver an efficient, flexible, sustainable and cost-effective solution.



Download our white paper at:
www.dali-alliance.org/downloads

DALI
Alliance



Ad Gefrin

visitor experience

Michael Grubb Studio brings the Ad Gefrin Anglo-Saxon Museum and Whisky Distillery in Wooler, Northumberland, to life with an exciting new lighting scheme.

Launched in March 2023, Ad Gefrin reawakened the Northumbrian tradition for whisky with its brand-new museum, visitor experience and whisky distillery, located just one hour from Newcastle-upon-Tyne.

Michael Grubb Studio was appointed at the early stages of planning in 2019 by the local client Alan, Eileen and Chris Ferguson to create a lighting design to showcase the Ad Gefrin brand and provide a visitor experience in multiple areas, including a working whisky Distillery, Barrel Store, Bistro, Retail, Function Room, Museum and grand Atrium entrance.

The new building design was led by local architect, Richard Elphick, with exhibition design by Studio MB using traditional and contemporary materials and the finest of finishes. Ad Gefrin's innovative design teams combined traditional techniques,

sustainable design practices and modern efficiencies. The use of natural light played a vital role, with large windows allowing in plenty of daylight. After dark, minimal lighting was used to extend winter use and create a warm ambience, while exterior lighting was kept low level to assist with wayfinding along key routes around the building.

Light encircles the domed Atrium entrance, drawing the gaze up to the copper skylight. The atrium proved a particular challenge, integrating lighting within the dome and spiral staircase.

Melissa Byers, Head of Bournemouth Studio at Michael Grubb Studio, advised: "The process of interrogating and challenging design often promotes innovation and benefits the end result. Typically, we could have chosen an encapsulated, acrylic, flexible linear product to suit the curvature of the

dome. However, following a series of lighting tests, multiple straight shorter lengths of LED luminaires were chosen as they delivered a brighter lit effect, with a lower wattage output, whilst short lengths could individually be removed and easily upgraded or maintained over time due to the product's design and materiality, making this approach both more effective and sustainable."

The Bistro is a multi-functional bar, café and restaurant and during the day, the space is flooded with light, so it was important to select a design that had as much presence by day as it did by night. A decorative light feature was created using 270 spherical, glass globes internally illuminated by fibre optics suspended from the ceiling, a design inspired by Northumberland's starscape.



The lighting also needed to serve multiple functions, sometimes with challenging operational requirements, such as in the Distillery, an ATEX rated, and potentially explosive working environment. Functional lighting was combined with decorative lighting to create two lighting scenes to support each requirement. Directional, warm spotlights illuminate the distillery copper pot stills, enhancing the raw materials and textures, as well as highlighting interior architectural features to create a community focal point after dark visible through large arched windows from the street.

The Function Room features an impressive, vaulted ceiling showcasing a selection of large,



curved, tiered copper-leafed pendants that make a visual connection through their form, materiality and warmth with the copper Distillery pot stills. The final design settled upon includes three pendants, and alongside the pot stills, they create a striking landmark viewed from the exterior that celebrates the Ad Gefrin brand.

The lighting design for the Tasting Room was kept to an absolute minimum by using very, narrow beam, discretely mounted spotlights and LED light sheets to highlight the colour and qualities of the whisky, allowing the rest of the room to fall into darkness to support the 360 degree AV experience.

Retail lighting in the shop provides a clear floor area for visitor movement and allows the space and displays to be used flexibly with feature lighting to highlight products available for sale.

Michael Grubb, Founder and Managing Director of Michael Grubb Studio, commented: "There was a real investment in the local community throughout this project. The clients are a family-run business who were committed to involving and benefitting local people. This level of care can be seen throughout the details of the

project and the high quality of the result, due to their craftsmanship and personal attention to detail. This is something that they really wanted the community to be proud of. The success of this project is also due to teamwork and all the pieces coming together. A good working relationship between the client, contractor, designers, and engineers created a pleasant experience and a real harmony to the project."

Eileen Ferguson, Co-founder of Ad Gefrin, concluded: "We could not be happier with the result of the lighting design. Michael Grubb Studio worked closely with us on the process of how to bring our vision to life, allowing us to take a personal approach to the project. One of the things we have enjoyed so much about this project has been the process of seeing the design come to life from the initial concepts to the finished project onsite. We are incredibly proud of what the team have accomplished, creating a space which serves the local community while demonstrating our values and style as a brand."

Michael Grubb Studio
+44 (0)20 3161 4807
www.michaelgrubbstudio.com

Client: Ad Gefrin (Alan, Eileen and Chris Ferguson).

Lighting design: Michael Grubb Studio.

Architect: Richard Elphick, supported by Todd Milburn, Red Fox and JCP.

Construction: Brims Construction Ltd.

Interior design: Studio MB.

Images: Courtesy of Sally Ann Norman Photography.



Canterbury Cathedral

Illuma Lighting upgrades the lighting at Canterbury Cathedral to a more sustainable and energy-efficient solution.

Founded by St. Augustine in 597 AD, Canterbury Cathedral is a place of worship and pilgrimage, as well as a masterpiece of art and architecture, so selecting appropriate lighting was crucial to enhance its interior aesthetics. Illuma Lighting seized the opportunity to update the lighting system to offer both sustainability and energy efficiency.

Illuma was tasked with providing a lighting proposal that would utilise existing locations while updating the lighting to complement the cathedral's impressive features. One challenge was to create a high-output, extra warm colour temperature spotlight, which Illuma did not typically offer in their range.

Illuma developed a special made-to-order 2700K, 3000lm Gridspot specifically designed for Canterbury Cathedral to match the light output and colour temperature of the metal halide fixtures it was replacing. The Gridspot was chosen for its proven reliability, outstanding performance, and high

colour rendering index (CRI), which enhances the colours of the interior stonework and historical artifacts.


Initially, Illuma was asked to replace the lighting in the long stone staircases leading up to the Trinity Chapel. However, upon witnessing the remarkable performance, they decided to illuminate 90 percent of the Cathedral using Illuma! The Gridspot Anti-Glare variant, with its 3000lm output, was employed for downlighting, delivering a powerful illumination allowing the congregation to see clearly, while providing ample light for the choir to read their music.

For lighting the roof vaults, a wider 38° beam angle was selected, creating a beautiful ambient glow, highlighting the architectural features. Pairs of the 24° variant were used to accentuate important features within the Cathedral. Illuma's experienced lighting designers approached the task of illuminating a religious building like a stage, ensuring the highest lux levels were directed toward what the



congregation was present to witness.

Robert Chesterfield, National Retail Manager at Illuma Lighting, commented: "It was an absolute pleasure and an honour to work on such a prestigious project in this world-famous building. The final result is simply breath-taking, breathing life into the incredible architecture and history of the Cathedral. The first time I saw the lights illuminate, it left me in awe!"

Canterbury Cathedral has reported substantial energy savings of over 70 percent, the Cathedral's Lead Electrician, Stephen Buchan concluded: "It was a pleasure working with Rob; the new system is more balanced and pleasing to the eye, and we are really happy with the reduction in energy use." 

Illuma Lighting
 +44 (0)1332 818200
www.illumalighting.co.uk

*Images courtesy of
 Illuma Lighting.*



Portable Photometers,
Colorimeters & Flicker Meters



Imaging Photometers



Labsphere Integrating
Sphere Photometers



SSL Goniophotometers for
IES & LDT File Generation



Scan here to visit
the Pro-Lite Web Site

Services: Calibrations,
Equipment Hire &
Professional Training
in Photometry

Spectroradiometers



A Complete Solution in Light Measurement & Photometry

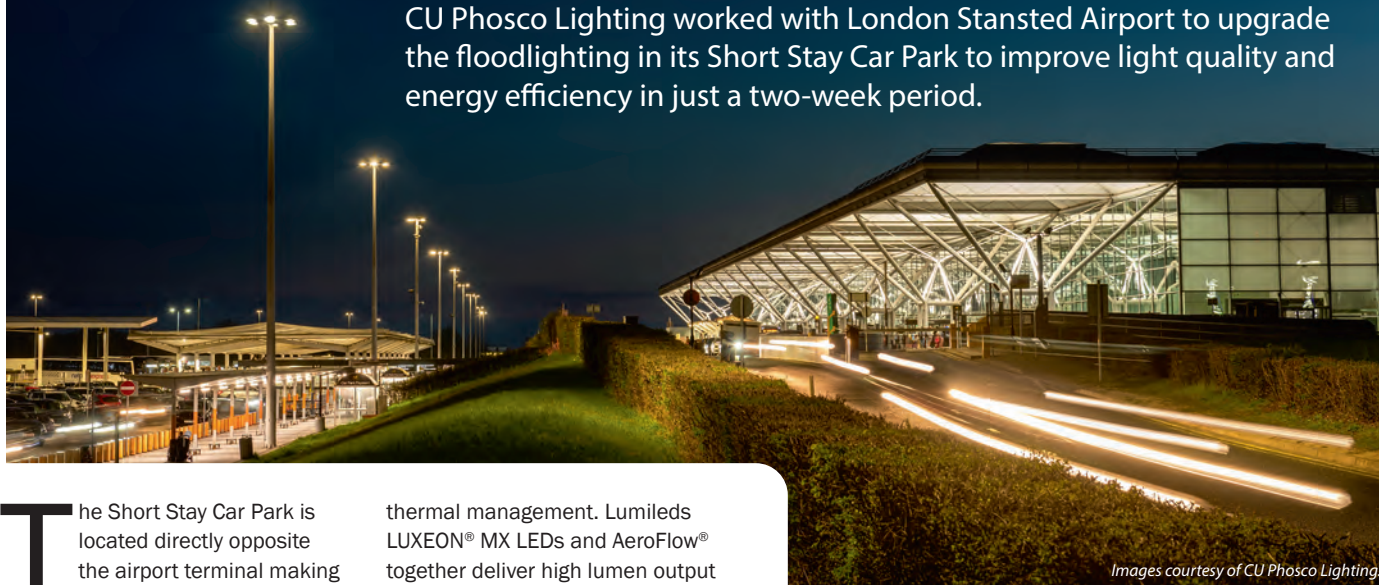
Pro-Lite provides a complete solution in the field of photometry and the measurement of light, lighting products and the optical properties of materials. Our range of equipment takes in the full "tool kit" that those working with lighting products might need, including handheld illuminance meters, colorimeters, spot luminance meters, integrating spheres in sizes from 25cm to 3m diameter, 2D imaging photometers for lit area luminance uniformity measurements and a range of advanced goniophotometers.

New for 2023 is the SSL range of professional-grade goniophotometers, the instrument capable of creating IES & LDT photometric data files. With inflation squeezing company finances more than ever, SSL goniophotometers are designed to deliver professional-grade performance to suit all budgets. Customers can choose from entry-level SSL-LAMP series, or for a moderate uplift we offer an SSL-LUMI model with added features that make life that little bit easier. SSL-LUMI models can be equipped with a burn-position correction option for full compliance with international lighting standards (IES LM79-19, CIE S025 and EN 13032).



A welcomed arrival

CU Phosco Lighting worked with London Stansted Airport to upgrade the floodlighting in its Short Stay Car Park to improve light quality and energy efficiency in just a two-week period.



Images courtesy of CU Phosco Lighting.

The Short Stay Car Park is located directly opposite the airport terminal making it easily accessible by foot. It offers over 3,000 parking spaces and has been awarded the prestigious Park Mark, a national standard that recognises car parks with low crime rates and efficient management. With 24-hour CCTV coverage, floodlights and regular security patrols, the car park offers complete peace of mind to its customers.

Floodlights have played a crucial role in London Stansted Airport's safety record; therefore, when upgrading their technology for greater efficiency, CU Phosco Lighting provided the perfect solution offering a high-quality floodlight with precision optics.

The project's objectives were to improve the light quality and increase energy efficiency. CU Phosco Lighting worked with the facilities team at London Stansted Airport to find the right solution for the car park. After conducting a site survey and lighting design, the FL800D floodlight was identified as the optimum solution. The floodlight offers a range of optical distribution options and uses AeroFlow® Cooling System to provide exceptional

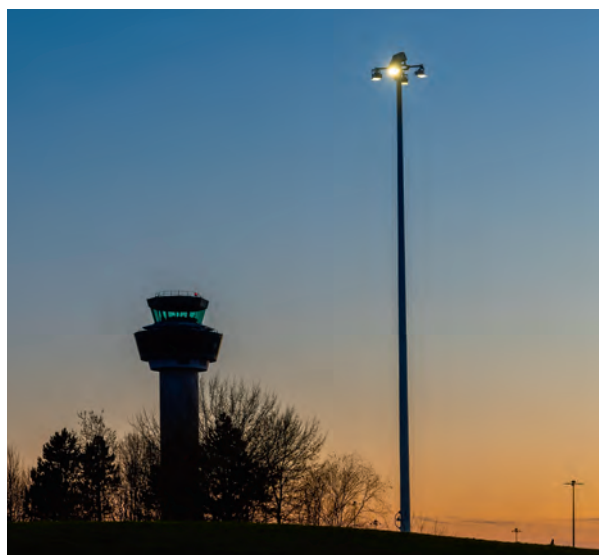
thermal management. Lumileds LUXEON® MX LEDs and AeroFlow® together deliver high lumen output with very low lumen depreciation over life, which minimises energy and operating costs by reducing over lighting.

CU Phosco Lighting installed 186 FL800D's across 32 high masts and designed and manufactured 32 replacement lantern carriages. The installation of the FL800D floodlights has provided exceptional light quality and energy efficiency, which has helped maintain the airport's safety record and reduced energy costs for the airport by 65 percent.

James Pritchard, Airfield Engineering Manager at London Stansted Airport, concluded, "We are delighted with the results of the floodlighting upgrade in the Short Stay Car Park. The CU Phosco Lighting team provided excellent service, working closely with us to find the best solution for our needs. The new FL800D floodlights provide exceptional light quality and energy efficiency, improving safety and reducing our costs." 

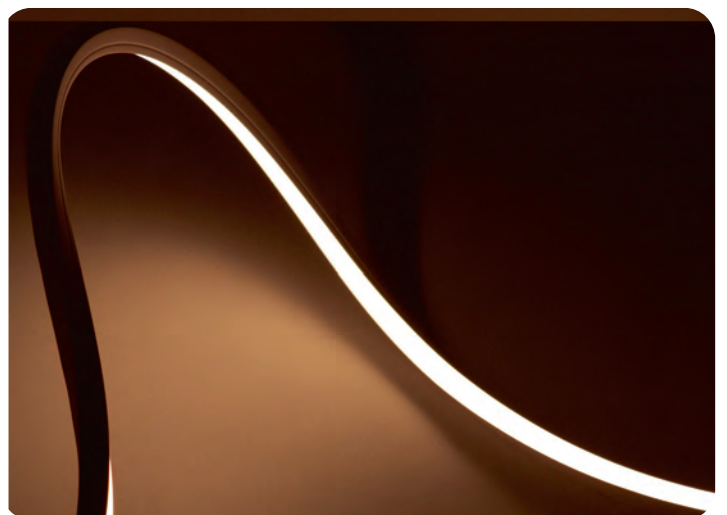
CU Phosco Lighting
+44 (0)1920 860600
www.cuphosco.com

Floodlights have played a crucial role in London Stansted Airport's safety record; therefore, when upgrading their technology for greater efficiency, CU Phosco Lighting provided the perfect solution offering a high-quality floodlight with precision optics.





Ambient | Decorative | Functional



01376 343087 timage.co.uk



Millfield is one of the leading UK independent schools for students aged 2-18 years. The prestigious private school, located in the beautiful English County of Somerset, is where excellence in facilities, teaching and coaching come together.

Millfield's ethos is helping each individual to discover their own brilliance. To ensure their facilities reflect this, they recently completed a full lighting project for a variety of spaces across the campus. The results have perfectly aligned with the school's net-zero programme, reducing energy consumption by up to 60 percent.

In 2005, ERCO lighting were specified to integrate halogen fittings through the school. With the recent move to LED technology, ERCO and Millfield have built on their existing relationship and collaborated on a brand-new lighting refurbishment with LED and Bluetooth technology.

Energy reduction has been achieved with LED luminaires integrated with a combination of DALI and Casambi technology used within different areas of the school. Within the concert hall, DALI technology was part of the original installation, and so, this was maintained and upgraded to align with the LED solution.

Using ERCO's Atrium Pendant luminaires integrated with Casambi technology, the school now boasts a modern and fresh dining hall, with flawless illumination. Casambi technology further enhances the LED luminaires, to bring flexibility and adaptability to the dining hall, where the space can be transformed to adapt to any activity, at the touch of a button.

Established in 1992, the school's nationally renowned Atkinson Gallery hosts major contemporary art exhibitions.

Steve Thompson, Sales Director at ERCO, commented on illuminating the Gallery, "The Atkinson is truly a

ERCO passes with flying colours


ERCO have supplied Millfield school in Somerset with a brand-new lighting refurbishment using LED and Bluetooth technology to help reduce energy consumption.



space of art and history, it was an honour to be specified to re-light this iconic space. Using ERCO's Parscan spotlight on track and Optec, the students inspiring artworks have been delicately enhanced. The LED technology contributes to further energy-reduction across the gallery and aids in artwork conservation with the benefit of heat reduction."

Additionally, the staff room has recently received a long-awaited refurbishment. Atrium, Parscan on track, Skim downlights and Starpoint, have been integrated into the space creating a warm and relaxing atmosphere.

Alongside the architectural luminaires, ERCO lighting also provided functional emergency lighting throughout the school, creating a safe and directional scheme for all occupants.

Millfield School shapes the school around the child and ERCO have delivered a solution to uphold this value, which is not only, flexible, adaptable and engaging but, cares for the future, with future-proof and sustainable luminaires. 



ERCO
+44 (0)20 7344 4900
www.ercos.com

Client: Millfield School.

Lighting Manufacturer: ERCO.

Bluetooth Controls: Casambi and DALI.

Photography: Martina Ferrera, ©ERCO GmbH.

ERCO
Millfield school
Somerset,
UK

The new generation of DALI compact occupancy detectors



For energy-efficient lighting control



- Occupancy detectors with integrated DALI application controller
- DALI-2 certified products
- More mounting flexibility
- New app and logic functions
- New installation functions
- Optimised range



0870 850 5412 — info@beguk.co.uk — beg-luxomat.com

A1 Lighting

FIRST PLACE FOR NEWS IN YOUR INDUSTRY

Head to the A1 Lighting website and subscribe to receive a FREE copy of A1 Lighting by post or email and keep up to date with your industry news.

WWW.A1LIGHTINGMAGAZINE.COM



Gårda, in the heart of the Swedish city of Gothenburg, is an ever-evolving district, and once the site of a vibrant industrial scene. With its stunning 100m glass facade and modern architecture, the 27-story Kineum building is one of the most notable structures within the area.

Light Bureau was tasked with delivering a lighting design, providing elegant illumination of the glass facade. Graze lighting was needed, and the effect had to be executed without producing light pollution. To achieve this, custom engineering was required, with lighting control playing a key role. Pharos Architectural Controls, a dynamic lighting control specialist, was brought in to fulfil the project's lighting control requirements.

The Pharos Designer LPC 1 (Lighting Playback Controller 1) designed for 24/7 operation, features individually controllable and independently running timelines and scenes. The LPC delivers white and grey-scale dynamic lighting effects to the facade, enabling the Lumenpulse Lumenbeam fixtures to be animated in a way that creates a subtle, visual effect on the metal gridwork, reminiscent of a surface that is twisting and waving.

The lighting design was created through a partnership between Light Bureau; lighting solutions provider, Stockholm Lighting; and manufacturer, Lumenpulse. The partnership created a custom optic that combined micro-snoots and light-shaping films. Photons that would have gone into the sky have been refocused onto the facade, using light responsibly and efficiently.

Mark de Gruyter, Regional Manager for EMEA at Pharos Architectural Controls, said: "Gothenburg is a fascinating city with a wonderful history, and it is encouraging to see such innovative

**Pharos
Architectural
Controls**
Kineum
Gothenburg,
Sweden



Kineum shines bright

Pharos Architectural Controls supplies the lighting control system for the impressive Kineum building in Gothenburg, Sweden.



redevelopment taking place. Kineum is a particularly stunning building, and the illumination of the facade has undoubtedly enhanced this. The utilisation of the Pharos Designer LPC 1 to deliver not only outstanding lighting effects but also contribute towards the elimination of light pollution shows the power of our market-leading control solutions."

James Anderson, Sales Manager at Stockholm Lighting Company, concluded: "Kineum was a challenging brief to deliver, but a strong collaboration effort across all project partners led the project to great success. The specified technologies, including the Pharos Designer LPC 1, have enabled a subtle and elegant lighting design while adhering to the strict environmental requirements of the project."

Pharos Architectural Controls
+44 (0)20 7471 9449
www.pharoscontrols.com

Lighting designer: Afonso Almeida, Kristofer Karlsson – Light Bureau.
Lighting solutions partner: Stockholm Lighting.
Lighting manufacturer: Lumenpulse.
Photographer: Ulf Celander.



10770
NARROW SPOT
PLAIN



10771
NARROW SPOT
FROSTED



10772
MEDIUM SPOT
FROSTED



10773
WIDE SPOT
FROSTED

NEW

NEW! 10mm IP66 OPTICS

The 10mm range has two new additions:
The **60168** & the **60169**.

Both optics offer additional wide beam angles,
extending the coverage available from our
10mm IP66 TIR optics.

To view results please visit Carclo-Optics.com.



60168
WIDE SPOT
FROSTED
FWHM 43° – 57°



60169
WIDE SPOT
FROSTED
FWHM 44° – 99°



10774
ELLIPTICAL LINEAR
RIPPLE



Game of Thrones Studio Tour

The fantasy world of hit series Game of Thrones is brought to life at the Game of Thrones Studio Tour at Linen Mill Studios in Banbridge, Northern Ireland with over 1,000 Elation lights.



Opened in 2022 in partnership with Warner Bros, Game of Thrones Studio Tour is a 110,000sq ft interactive indoor experience that allows fans to explore the original sets, costumes, props and weapons used in the series. The new global attraction, located at one of the acclaimed series' original filming locations at Linen Mill Studios in Banbridge, invites fans to step behind the scenes and discover the making of the celebrated series.

Brian Reilly, MD of PSI Production coordinated the project, supplying and installing rigging, lighting and special effects. Brian commented: "It was a great privilege to be involved in such a project right from the outset. PSI delivered in the most challenging circumstances imposed by the pandemic."

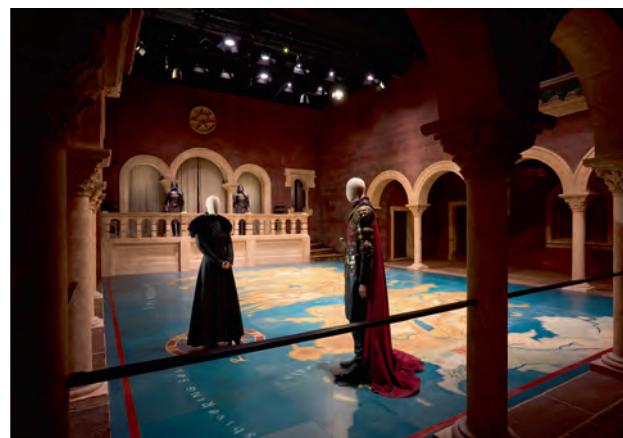
The task of lighting design was managed by John Gallagher of Lumiere Productions, one of Ireland's foremost designers who liaised with exhibition designers, suppliers and other stakeholders to ensure a cohesive and visually captivating atmosphere for the attraction.

John stated that proper exhibition lighting that highlighted the rich detail in the sets was required. It was also important to the studio tour designers, owners and partners that all displays worked well on camera.

The project contained a plethora of different lighting fixtures including nearly 1,100 lights from Elation Professional: 341 Colour 5 Profile™, 658 SixPar 200™, 48 Paladin Panel™, 29 Paladin Brick™, 14 Fuze Par Z120 IP™, and 6 Fuze Par Z175™.


John commented: "The look of the show required extensive use of subtle variations in white and variations of color temperatures, as well as occasional more saturated tones. The Elation colour engines allowed us to achieve this very successfully."

The two workhorse fixtures on the project, the Colour 5 Profile and SixPar 200, are both used throughout. The Colour 5 Profiles fulfill a variety of roles, including tight focus on display objects such as costumes/mannequins, and signage, while also providing gobo projection and beams. The designer says that the SixPar 200s provide a cost-effective option for area lighting,



backlighting, and lighting through set windows in tight spaces.

The Paladin floodlights provided a neat and effective option for lighting backdrops, scenic backings and painted cloths, while the Fuze Pars are used for set lighting.

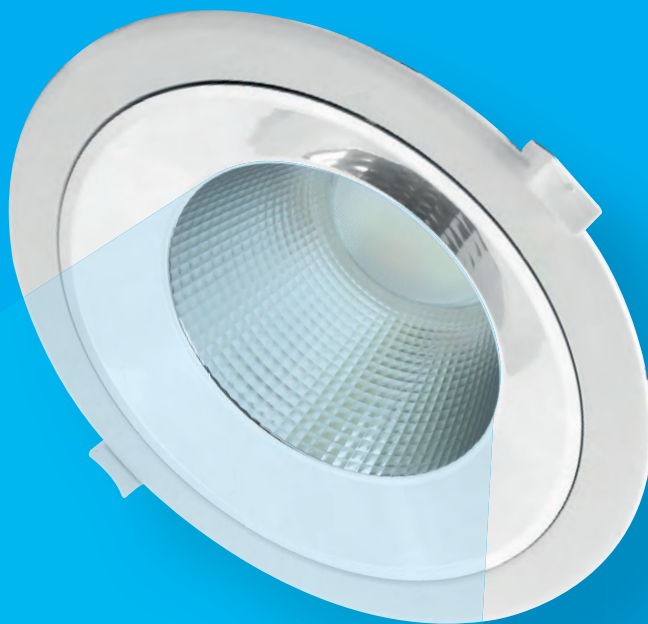
John concluded: "With several hundred Elation lighting fixtures on the project, I was very impressed with both the consistent quality and reliability of the units across the range." 

Elation Professional
+31 45 546 85 66
www.elationlighting.eu

*Photos courtesy of
Linen Mill Studios.*

SHINE BRIGHT WITH SPRITE

Introducing the Sprite Aluminium LED Downlights



Triac Dimmable with
Multi-Function Option



Fast Fit Flow™
Connector



Dual CTA Switch:
Cool White, Warm White,
Day Light



5 Year
Warranty



IP54
Rated



Triac
Dimmable



50,000
Hour Lifetime



60°
Beam Angle

Available in 3", 5", 6" & 8" diameter options



call: 01827 300640

email: sales@oviaUK.com

visit: oviaUK.com

OVIA
ScolmoreGROUP



Studio Lumen
Bab Al Shams
Dubai,
UAE

Blending culture and modernity

Studio Lumen creates a luxurious lighting design for Bab Al Shams resort in Dubai, UAE that radiates culture and modernity.

Since first opening its doors in 2003, Bab Al Shams has long been an iconic Dubai destination, renowned as a resort rooted in true Arabian hospitality. Featuring a modern spa, luxurious amenities and equine activities across an expansive landscaped oasis in the middle of the desert, Bab Al Shams is an elegant yet laidback five-star resort.

The resort underwent a recent refurbishment providing a much-needed facelift to the 20-year-old interiors, while ensuring that the design remained relevant and future-proofed. Lighting designer Studio Lumen worked closely with the team of architects, interior designers and landscape architects to achieve the balance required to accent the splendour of the location and to provide the right navigation throughout the extensive resort.

An important factor in the lighting concept was the amalgamation of culture and modernity. It was integral that the lighting exuded a warm and relaxed ambience that provides the perfect getaway for guests while preserving the authentic visual heritage and blending this with contemporary Arabic elements.

A combination of patterned decorative lighting and fittings integrated directly into the interior and landscape details provide the primary layer of light. Downlights and additional light sources complement this visual effect, adding additional accents and highlighting key features.



The guestrooms feature a comforting light balance to provide a relaxed atmosphere, with lighting programmed to ensure the optimum levels for different times of the day and night. The lobby and lounge incorporate a blend of zones for different activities, with lighting playing an important role in creating this flow while maintaining a distinct identity for each space. In the open-air Al Hadheerah restaurant, a warm glow of lanterns welcomes guests and creates a serene dining experience.

The lighting design has played a key role in reinventing Bab Al Shams as a luxurious, modern space, without compromising on the influences of its rich culture and history.

Siddharth Mathur, Managing Partner at Studio Lumen, commented: "The aim of this refurbishment was to blend the existing ethos of Bab Al Shams with an upgraded, enhanced design strategy for the next 10-year cycle. This was an important cue for the lighting concept, and the design by Studio Lumen brilliantly repurposed existing fittings, implemented new luminaires, and ensured that the lighting details and technology all responded perfectly to the brief to exceed the client's expectations."

Studio Lumen
+971 4 3385806
www.studiolumen.co

It was integral that the lighting exuded a warm and relaxed ambience that provides the perfect getaway for guests while preserving the authentic visual heritage and blending this with contemporary Arabic elements.

Architects and Interior Designers: LW.
Project Managers: Mirage Leisure & Development.
Hospitality Operators: Kerzner International.
Developer: Nakheel.
Photography credit: Natalee Cocks.

**Allthreads in brass & steel,
Bushes,
Cordgrips,
Drips,
↓
Zinc plated steel & brass nuts**

In addition to our collection of lampholders, switches, dimmers, cables and cordsets Arditi UK offer a comprehensive range of components.



GET IN TOUCH AND GIVE US A CALL ON **+44 (0)1604 864615**
TO DISCUSS HOW WE CAN HELP YOU.

UK CORD-SETS
available with or without switch

- Moulded UK Plug with Pin Protector
- 3-Core Round 0.75 Cable
- Black, White or Gold
- VDE/ASTA/ENEC approved
- Contact us for a competitive quotation



GET IN TOUCH AND GIVE US A CALL ON **+44 (0)1604 864615**
TO DISCUSS HOW WE CAN HELP YOU.

8

American Idol goes mega



Fixtures from Robe were selected for the live finals of American Idol 2023 hosted at the iconic Red Studios Hollywood in Los Angeles, USA.

The iconic, Red Studios Hollywood in Los Angeles was selected as the new venue for the live finals of American Idol 2023 - giving lighting designer Tom Sutherland of DX7 Design and production designer Florian Wieder the chance to create an exciting new look in this historic space. Red Studios Hollywood originally opened in 1915 as Metro Pictures, although the stages have been modernised, installing a large rock 'n' roll set and lighting rig required skillful crafting.

Tom selected numerous Robe moving lights, including 137 MegaPointes. These were joined by 104 Robe Tetra2 moving LED battens, another fixture that Tom loves for creating specific looks and effects. He also used 49 Spider LED wash beams, a highly practical luminaire with outstanding colour mixing that he frequently specifies, together with BMFL Blade Follow Spots.

The new performance area was a distinctive diamond shape, and the overall set incorporated a host of LED sources; screens, paneling,

and strip lighting, plus a striking LED floor. So, to look good against all of this, he needed plenty of brightness. Tom decided to mirror the diamond floor design with a grid of Spiders above in the roof, resembling a contemporary chandelier.

A frame of MegaPointes surrounded this grid, while more were positioned all along the stage. They were augmented with five MegaPointes a side on the deck and four behind the live band to create a structural effect.

Over the course of a series like American Idol, it is all about creating dynamics and variety!


The Tetra2s were utilised to frame the upstage LED screen, a large area that split apart and tracked left and right to allow entrances and exits. The idea was to evoke an arch effect of Tetra2s.

Tom worked closely with Florian, discussing how lighting and video can complement and contrast one another, adding drama and depth to the visual equation. Tom appreciates that Florian totally understands lighting and how it needs to function, and his designs



always reflect this, building lighting into the design from the outset.

Each American Idol broadcast lasts two hours and plays to a live audience of 750, a combination of standing (in the pit) and seated that brings additional resonance, atmosphere and vibrance.

In addition to Robe products, there were approximately 700 other lights on the rig. 


Robe UK
+44 (0)1604 741000
www.robe.cz


Photos: Tom Sutherland,
DX7 Design.

Illuminating Ideas



flexform.co.uk

 FlexformCables

 flexformcablesltd

Featured lampholder:
Linea LV

*Now available in
white porcelain*



+44 28 9079 2155 / info@flexform.co.uk



CMR Surgical, formerly Cambridge Medical Robotics, is at the forefront of groundbreaking medical technology, revolutionising surgical procedures through advanced robotic systems. CMR Surgical required a new, purpose-built manufacturing facility to support its cutting-edge work. Located in Ely, Cambridge, the state-of-the-art site spans 7,045 sqm and has since achieved a BREEAM Very Good rating.

Munro selected TRILUX as the perfect lighting partner for CMR Surgical's ambitious project. TRILUX's extensive energy-efficient product range including Siella, ArimoFit, E-Line, LC60 and Solegra were carefully chosen to address the diverse lighting requirements throughout the entire facility.

TRILUX's comprehensive product portfolio and ability to provide complete lighting solutions allowed Munro to simplify their processes by having a single point of contact for all lighting needs across the facility. TRILUX's lighting solutions created a visually appealing environment, enhancing the overall aesthetics from the reception area to the offices and factory floor, keeping energy consumption low.

One of the critical challenges was to meet the high lighting standards required for the intricate task of robotic assembly. TRILUX's E-Line linear lighting system perfectly met these demanding requirements, including IP64 protection, low glare, and 1000 and 800 lux luminance for the manufacturing areas. This precise illumination ensured factory workers could observe even the finest details with clarity, facilitating seamless robotic assembly and maximising operational efficiency and employee wellbeing.

Iain Butterworth, Project Manager at Munro, commented: "When seeking a lighting manufacturer for this project, we


Lighting a global manufacturing facility



TRILUX collaborates with building services experts, Munro, to provide an array of innovative lighting solutions for CMR Surgical's new global manufacturing facility in Ely, Cambridge.

prioritised finding a partner that could provide comprehensive solutions and exceptional quality. TRILUX exceeded our expectations, offering a diverse range of products that perfectly met our requirements. Their expertise and commitment to excellence were instrumental in creating a world-class manufacturing facility for CMR Surgical."

Ben Cook, Property Project Coordinator at CMR Surgical, added: "Our goal was to create a site and building that not only achieved sustainability and environmental performance goals but also enhanced the wellbeing of our staff. TRILUX's lighting solutions have played a pivotal role in realising these objectives."

The result is the creation of a brand-new, BREEAM Very Good-rated manufacturing facility that perfectly aligns with CMR Surgical's commitment to excellence, sustainability, staff wellbeing and natural resource conservation. 

TRILUX
+44 (0)1245 463463
www.trilux.com



Design and build: Munro.
End client: CMR Surgical.
Lighting: TRILUX.
Images: Courtesy of TRILUX.





LAMPHOLDERS - LIGHTING COMPONENTS -
PRESSINGS - TURNED PARTS - LED LIGHTING



Catalogue



S. Lilley & Son Limited

QUALITY AND SERVICE FROM A FAMILY BUSINESS



Visit our website or call us today to discuss your luminaire requirements from the leading UK manufacturer of lampholders and lighting components.

You can be confident that you will find solutions for all your lighting needs. All our lampholders are third party certified to comply with relevant UK and European standards and copies of certification can be downloaded from our website.

We are a friendly family business with a personal professional approach, where quality is assured with accreditation from both LIA and BSI. A copy of our 2022/23 catalogue is available for download from our website together with all the latest quality certification. Printed copies available upon request.



T: +44 (0)121 622 2385 F: +44 (0)121 666 6148 E: sales@s-lilley.co.uk W: www.s-lilley.co.uk



Buyers Guide

FIRST PLACE FOR NEWS IN YOUR INDUSTRY



DO NOT MISS
OUT ON THE 2024
A1 BUYERS GUIDE.
PLEASE CONTACT
A MEMBER OF OUR
TEAM TODAY!

+44 (0)1787 222251
BuyersGuide@a1mediamagazines.com





The Capitol theatre is an iconic performance venue located on Swanston Street in Melbourne, Australia.

Its extravagant interior design was created by renowned architects Marion Mahony Griffin and Walter Burley Griffin. The striking ceiling features intricate moulded plaster designed to conjure up images of a crystalline cave. Having opened in 1924 and facing the threat of demolition in the early 1960s, the theatre remained open to the public until 2014 where it fell into disrepair and was no longer a usable space.

RMIT University purchased The Capitol in 1999 for use as a lecture theatre, and in 2017 began an appeal to raise funds to restore the historic building. With a full refurbishment required, and lighting an important element of the project, a number of products from Pharos Architectural Controls were specified by solutions provider Lightmoves, a member of the wider project team.

The refurbishment replaced the ceiling's previous static coloured light bulbs with energy-efficient LED battens and a Pharos Designer LPC 1 (Lighting Playback Controller 1) and two Designer TPS (Touch Panel Station) interfaces to provide unlimited colour and dynamic effects. The TPS gives easy control of playback selection and lighting levels, allowing users to seamlessly transition between scenes, timelines, effects and pixel-mapped media. It works flawlessly with the LPC 1, which features 512 channels of DMX/eDMX, ideal for offering the fully customisable pre-programmed lighting effects that venues need to bring performances and experiences to life. The Pharos solutions work in harmony with a range of LED luminaires to ensure the ceiling can be appreciated in all its glory.

The control system for the ceiling also supports the theatre's aim of becoming a space for RMIT



Pharos plays a leading role in the transformation of The Capitol theatre in Melbourne, Australia.

students to study and learn about theatre, lighting, films and event production. The RMIT's students have been trained to use the Pharos Designer software to programme new scenes and timelines for the roof lighting.

Tony Symms, Regional Sales Manager for Asia Pacific at Pharos Architectural Controls, said: "The ceiling at The Capitol is an impressive sight. It is incredibly positive that this historic venue has been saved from demolition and put back into good use. Our technologies are always an excellent choice for making the most of unique features such as The Capitol theatre ceiling but it's also great to know that our solutions are being used to train and educate future lighting designers, engineers, and other industry professionals of the future."

The transformation of the lighting for the refurbished Capitol theatre ensures the venue has kept true to its original look and ambience; but now enhanced through state-of-the-art lighting control.

Pharos Architectural Controls
+44 (0)20 7471 9449
www.pharoscontrols.com



Lighting control solutions provider: Lightmoves.
LED lighting design concept and functional testing: GHD Consulting.
Architects: Six Degree Architects.
Builders: Hutchinsons.
Electrical contractor: BN Electrical.
Overall collaboration across project with RMIT University.
Images: Courtesy of Lightmoves and BN Electrical.

INNOVATION IN EXTERIOR LIGHTING

OPUS SCONCE

- ➔ An attractive wall mounted range ideal for entrances and walkways or to highlight architectural features.
- ➔ Manufactured with a die cast aluminium IP65 rated housing with weather resistant paint finish in matt grey or black finishes.
- ➔ Two housing styles accommodate downlight, uplight or bidirectional installations.
- ➔ Available in a range of lumen outputs and 3000 or 4000 kelvin colour temperatures.



Opus Sconce

OPUS WALLPACK

- ➔ A high quality external luminaire with a durable and robust construction
- ➔ IP65 ingress protection and IK10 impact resistance
- ➔ Two custom lens optics offering either asymmetric or open distribution to suit a range of applications
- ➔ Available with optional integral microwave sensor, photocell and in black or grey housing colours



Opus Wallpack

OPUS 360 HIGH OUTPUT

- ➔ High lumen outputs combined with 360° distribution ensure suitability for high level open area applications
- ➔ Up to 60,000 lumen output
- ➔ Lensed optical design ensures accurate and precise control minimising light pollution and maximising efficiency
- ➔ Available in asymmetric versions for car park perimeters, a range of colours and supplied with prewired cable for ease of installation



Opus 360 High Output

OPUS COLUMN SMALL

- ➔ Compact addition to the highly successful Opus Column Range
- ➔ Up to 7000 lumen output
- ➔ Available with integral presence detection sensor or photocell
- ➔ Supplied with adjustable spigot in a range of sizes and prewired with 10M lead for quick and simple installation



Opus Column Small

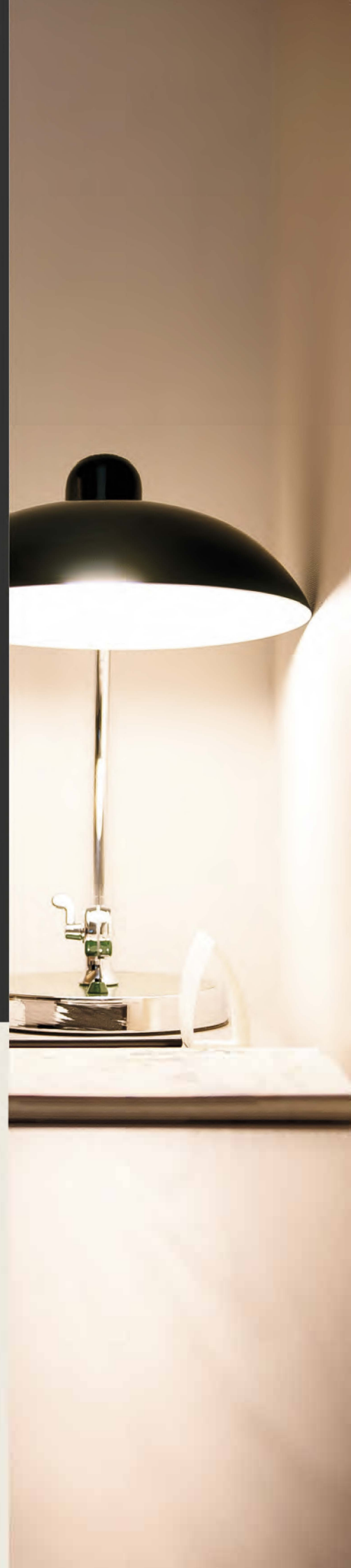
What is Flicker?

Flicker is defined as the variation of light output over time and occurs in every light source, to varying degrees, usually as their power is drawn from an AC source (frequency of 50Hz in the UK).

It is an important consideration in lighting design as flicker can affect health and video, for the likes of internet conferencing.

Visible flicker is dangerous for people who have photosensitive epilepsy as well as being visually uncomfortable.

Some individuals have sensitivity to flicker beyond 60Hz and for those people flicker can cause headaches, general malaise, eye strain, fatigue and migraines.





SSL Spektri 80 Flicker Photometer



Labsphere Integrating Sphere
Flicker Accessory



JETI Spectroradiometer
Flicker Accessory

How to Measure Flicker?

Flicker is measured using a fast photodetector with a meter capable of resolving the degree of flicker which can have an adverse effect on health or safety of the environment.

There are a number of metrics that are used for this. Traditionally measurement would be made of the Percent Flicker and Flicker Index, these give a simple overview of the flicker in a light source but don't consider the Flicker Frequency. In recent years the Perceptual Flicker Severity, long term (PstLM) and Stroboscopic Visibility Measure (SVM) have been required in order to better quantify undesirable flicker.

Pro-Lite offers a complete solution for light measurement and photometry, including standalone flicker photometers as well as flicker meter upgrades for your existing integrating sphere and goniophotometer systems.

PRO-LITE
TECHNOLOGY

Contact us
to find out more

+44 (0) 1234 436110
www.pro-lite.co.uk



Timage & Co Ltd.

- +44 (0)1376 343087
- sales@timage.co.uk
- www.timage.co.uk

Ultra-High Temperature LED Strip (Max. 100 °C)

This 3030 type LED strip is a top view flexible linear lighting solution for high temperature environments such as saunas. The strip LED can withstand ambient temperatures of up to 100 °C and has been tested rigorously in order to ensure a long product life at peak performance. The product is available in two power outputs of either 4.8W per metre or 9.6W per metre and the strip is housed inside an IP67 or IP68 silicone casing which provides a high water resistance. Our Ultra-high Temperature Strip LED is available in numerous colour temperatures from 2700K through to 6300K.



MID Lighting

- +44 (0)1268 725086
- sales@midlighting.co.uk
- www.midlighting.co.uk

Space2X for North London school

MID Lighting's Space2X suspended luminaire was recently installed in the classrooms of a North London school.

The Space2X is a slim extruded luminaire which is available in modular or continuous lengths making it ideal for through wiring and the inclusion of presence and daylight sensors.

The luminaire can be supplied with a range of highly efficient optics including UGR Microprismatic and opal diffusers. A Direct/Indirect version is also available.

Control gear options include wireless, DALI and standard drivers. Emergency maintained, Self Test, Addressable and Wireless can also be supplied.



Pharos Architectural Controls

- +44 (0)20 7471 9449
- sales@pharoscontrols.com
- www.pharoscontrols.com

Dynamic lighting control

Pharos Architectural Controls is an award-winning British manufacturer of dynamic lighting control solutions for architecture and other specialist industries. Our products are highly flexible, versatile and powerful, and trusted to run day and night illuminating iconic installations around the world - from international landmarks and historic architecture to theme parks, airports, stadiums, bridges, shopping malls, art installations, and more.



Recolight

- +44 (0)20 8253 9750
- training@recolight.co.uk
- www.recolight.co.uk

Lighting product design for a Circular Economy | CPD workshop

Thursday 19th October 2023, London, UK

A practical workshop showing how to validate sustainability of lighting products.

The one day in-person workshops provide updates on the regulatory landscape for lighting. The focus is on practical delivery of TM66 and TM65. Delegates will learn:

- How TM66 and TM65 combine to validate the circular and embodied carbon content of products already designed.
- How these metrics can be used in future developments to better inform circular decision making in the design phase of the project.

The workshops feature a roundtable environment with a maximum of 12 delegates, giving the opportunity for full interaction, feedback, and questions for each topic.



Arditi UK

- +44 (0)1604 864615
- sales@arditiuk.co.uk
- www.arditiuk.co.uk

Decorative, Vintage and Porcelain LED Lamps

To complement our range of lighting components this evolving new range of E27 dimmable lamps uses LED technology in vintage, decorative and porcelain styles to combine stunning design without sacrificing quality and light output. The range comprises of traditional-style lamps such as globe, tubular and reflector in a range of finishes as well as innovative new shapes to create an elegant and refined mood perfect for any environment. Contact us for a catalogue and quotation.



DANLERS

Controls for Lighting & HVAC

DANLERS are launching a NEW range of Smart PIR sensors with a quick and easy set-up using DANLERS' own easy-to-use FREE APP, available on both Android & iOS.



These Smart PIR (passive infra-red) person detectors with built-in photocells are ideal for energy-saving automatic lighting control. Remotely programmable (with security options) via the APP, product settings can be adjusted easily and at your convenience, saving on commissioning costs too!

Optimal lighting levels and occupancy timeouts can be achieved simply and quickly, without having to manually adjust each sensor after it has been installed, and without the complications associated with some building management systems.

The NEW ISI range includes 'switching only' versions and versions with dimming compatibilities via DALI or 0-10V dimming ballasts, with the ability to have set-back light levels and fade-time control between each level (ballast type is specific to model).

These products are easily upgradeable via over-the-air updates for extra features such as grouping and asset tracking.

The range includes:



Ceiling flush ISI Smart PIR sensors

Ceiling flush ISI Smart PIR sensors which are neat and unobtrusive for flush mounting into false or plasterboard ceilings. Maximum detection of 7m at 2.4m mounting height.

Order codes: **ISI-CEFLSW** (Switching only, up to 6A LED, up to 10A resistive)
ISI-CEFLDALI (Daylight linked dimming control up to 8 ballasts)
ISI-CEFL10V (Daylight linked dimming control up to 20 ballasts)



Ceiling surface ISI Smart PIR sensors

Ceiling surface ISI Smart PIR sensors for mounting directly onto solid ceilings or onto a range of different mounting boxes. Maximum detection of 7m at 2.4m mounting height.

Order codes: **ISI-CESRSW** (Switching only, up to 6A LED, up to 10A resistive)
ISI-CESRDALI (Daylight linked dimming control up to 8 ballasts)
ISI-CESR10V (Daylight linked dimming control up to 20 ballasts)

High Bay ISI Smart PIR sensors

High Bay ISI Smart PIR sensors for mounting directly onto solid ceilings or onto a range of different mounting boxes. All high bay controls are available in 3 detection pattern options: Narrow detection (ND), Spot detection (SP) and Wide detection (WD).

Order codes: **ISI-HBNDSW, ISI-HBSPSW, ISI-HBWDSDW** (Switching only, up to 6A LED, up to 10A resistive)
ISI-HBNDDALI, ISI-HBSPDALI, ISI-HBWDDALI (Daylight linked dimming control up to 8 ballasts)
ISI-HBND10V, ISI-HBSP10V, ISI-HBWD10V (Daylight linked dimming control up to 20 ballasts)



+44 (0)1249 443377 | sales@danlers.co.uk | www.danlers.co.uk

DANLERS
Controls for Lighting & HVAC

Mushroom Lighting Technology Limited

- +44 (0)1604 790900
- info@mushroomlighting.com
- www.mushroomlighting.com

SPX LIGHTING, French manufacturer of museum lighting solutions, designs a range of products which combine not only real LED transition, but also high-quality lighting which is budget accessible for all exhibition and retail spaces.

To further this transition, the SPX Design Office has developed the "ISCAD". To put it simply, a 25W high efficiency, quality, framing, budget profile-projector with low energy consumption and an optical zoom of 18° to 42°.

Available in the UK from exclusive distributors Mushroom Lighting Technology Limited.



Ovia

- +44 (0)1827 300640
- sales@oviauk.com
- www.oviauk.com

Ovia adds new Suspension Cable Kits to lighting accessories range

Ovia's latest development sees the launch of a new Suspension Cable Kit. Designed for the Inceptor A-Lite and Inceptor B-Lite linear battens, the adjustable stainless-steel cable allows installers to easily hang lighting safely and securely, at the height required.

The B-Lite compatible kit is a standard Suspension Cable Kit comprising of 2 x 1500mm of cable, 2 screws and 2 plugs. The A-Lite compatible kit is a Y-Shaped Suspension Cable Kit with 2 x 1500mm of cable, 2 screws and 2 plugs. In each case, simply feed the wire through to adjust to the required length.

Inceptor B-Lite is a range of 4ft, 5ft and 6ft linear batten multi-current LED fittings. They are a direct replacement for conventional battens and boast many features.

Inceptor A-Lite is a range of College LED linear battens available in two sizes 1200mm (4ft) and 1500mm (5ft).



Dextra Group plc.

- +44 (0)1747 858100
- enquiries@dextragroup.co.uk
- www.dextragroup.co.uk

Rubini Recessed 4/8/12

Where lighting must be both discreet and attractive, the Rubini Recessed provides the optimum solution with its small form factor combined with a modern and attractive cellular design. With three size options and a range of lumen outputs, the Rubini Recessed offers the ideal replacement for traditional HID spot light clusters. Available in lumen outputs ranging from 1100 to 6000 in 4 cell, 8 cell and 12 cell configurations.

The combined lens and baffle design ensure glare is minimised and is available in a range of colours including black, white and copper finishes. Integral emergency and a wide range of dimming options ensure that the Rubini is compatible with all common control systems whilst enabling compliance to emergency lighting regulations.



Neonplus®

by The Sign Group

- +44 (0)113 252 4706
- sales@thesigngroup.co.uk
- www.neonplus.co.uk



Unleash your creativity with Neonplus®!

It's more than just signs. Our premium lighting offers accent and ceiling lights, fabricated shapes, and even stunning furniture pieces like our stunning chair. From eye-catching displays to accent lights, the possibilities are limitless. Infuse your projects with unparalleled originality, artistry, and pizzazz using Neonplus®. Break free from traditional lighting and become a 'Creative Guru' with our custom-crafted wonders. Let your imagination soar and leave dullness behind. Neonplus® is the ultimate tool for unleashing your creative genius.

SurePathBLE — ‘Wireless’ Emergency Lighting Test System



7inch 800x400 pixel
LCD screen



DALI emergency lighting control and testing from meshed single or multiple panels and luminaires.

SurePathBLE is an advanced ‘wireless’ emergency lighting test system, providing fully interoperable DALI monitoring, testing and reporting to BSEN 62034 using a Bluetooth® Low Energy (BLE) mesh.

The (BLE) mesh enables wireless communication luminaire to luminaire and back to panel. Each SurePathBLE panel is a transmitter/receiver capable of addressing up to 128 devices/luminaires. All SurePath system luminaires are equipped with our latest BLE/DALI Gateway transmitter/reciever modules.

SurePath BLE system simplicity provides user assurance that the emergency lighting installation is being routinely monitored and tested in accordance with BSEN 50172.

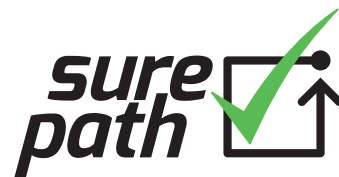
For large installations multiple SurePathBLE panels can be seamlessly networked using ELP SureLink software, and commissioning assisted using the SurePath Android App.

Fully interoperable with all DALI approved emergency lighting equipment

- Full WiFi ‘meshed’ system connectivity
- Password protected active functions
- Commissioning data entered via the touch screen, USB dongle or SureLink software
- Devices addressed individually, by ‘BUS’ or by ‘Group’
- Automatically finds replacement devices during maintenance
- Automatic status notifications are logged in SurePath’s non-volatile memory and downloaded by USB or SureLink software
- Bluetooth/DALI gateway
- Intuitive, easy-to-use operation
- BSEN62034 and BSEN50172 compliant
- IoT-ready



SurePathBLE panels can be recessed or surface mounted



Emergency Lighting Products Limited

Parbrook House, Gilmans Industrial Estate, Billingshurst, West Sussex, RH14 9EZ

Tel: +44 1403 786601 Fax: +44 1403 786602 e-mail:sales@elp.uk.com

www.elp.uk.com



Recruitment

We've got the means...



Get maximum exposure for your job vacancies from



magazine & website,
first place for news in your industry

Please contact us on;
T: 01787 222251 or email
terry@a1mediamagazines.com

www.a1lightingmagazine.com



CAMBRIDGE

- * Lead Developer
- * QA Automation Engineer
- * Product Manager
- * Graduate Product Manager


CAMBRIDGE OR LONDON


- * Technical Training Specialist
- * Technical Support Specialist

YOUR CAREER IN DYNAMIC LIGHTING CONTROL

It's an exciting time at Pharos; we're looking forward to continued growth ahead and hiring across our business. **Visit pharoscontrols.com/careers to find out more about us, the roles we're advertising for, and to submit your application.**

**READY FOR A
NEW CHALLENGE?**

 272 Gunnersbury Avenue
London, W4 5QB
United Kingdom

 +44 (0)20 7471 9449

 careers@pharoscontrols.com

 pharoscontrols.com/careers

    @pharoscontrols



A one-night spa break at Lifehouse Spa & Hotel

I recently returned from a very enjoyable one-night spa break at Lifehouse Spa & Hotel in Thorpe-le-Soken, Essex. Located just a stone's throw away from the pretty coastal town of Frinton-on-Sea and surrounded by 12 acres of peaceful English Heritage listed gardens which you can explore during your stay. The contemporary spa hotel offers an adult-only escape perfect for tranquillity and rejuvenation.

We arrived at the hotel mid-morning allowing us to take full advantage of the many facilities on-site. We were greeted with a warm welcome by the staff who could not do enough for you.

The inside bar area and outside Sun Terrace is the ideal spot for lunch or to enjoy a drink in the sun while soaking up your surroundings. We indulged in a scrumptious antipasti platter and warm breads before heading into the thermal spa and swimming pool area. You can also pre-book an afternoon tea which looked very tasty.



coffee provided in the room.

A real highlight of our visit was The Restaurant at Lifehouse which is headed up by Executive Chef Ugo Simonelli. The menu takes inspiration from Ugo's Italian heritage, featuring fresh flavours of the Mediterranean and uses seasonal

where to stay

The thermal spa area boasts a swimming pool, a range of steam rooms, a sauna, shower experiences and a thermal hydrotherapy pool as well as sun loungers both inside and outside for complete relaxation. I treated myself to a 25-minute signature back massage which left me feeling utterly pampered. The relaxation room located not far from the treatment rooms was total bliss. With beautiful aromas, dimmed lighting, relaxing music and soft blankets, it was hard not to feel totally relaxed.

We stayed in a garden room on the ground floor which was of generous size and tastefully decorated in soothing colours to reflect the beautiful scenery. The huge, comfy bed ensured a restful night's sleep, and the room was equipped with all the necessary amenities, including luxury toiletries and fluffy white robes and slippers to use throughout your stay. Our patio had a small table and chairs facing the gardens where we enjoyed a cup of tea/

and locally sourced ingredients as much as possible to ensure high quality. Each course was superb, the service and staff were excellent, and the atmosphere was just right.

We enjoyed breakfast back in the restaurant the following morning which consisted of a delicious hot cooked breakfast buffet as well as breads, pastries, fresh fruit, juices and continental items, catering to all dietary preferences and requirements.

Providing the perfect sanctuary to unwind and recharge away from the hustle and bustle of everyday life, Lifehouse Spa & Hotel exceeded all my expectations. I can't wait to return to this special find in Thorpe-le-Soken for another memorable experience. 

Written by Abbie Rossington.

Lifehouse Spa & Hotel
+44 (0)1255 860050
www.lifehouse.co.uk



Images courtesy of Lifehouse Spa & Hotel.



Lighting

FIRST PLACE FOR NEWS IN YOUR INDUSTRY

**ARE YOU
FOLLOWING
US ON SOCIAL
MEDIA?**



Architectural Controls Manufacturer

Pharos Architectural Controls
www.pharoscontrols.com

Architectural Lighting Manufacturer

Fagerhult Lighting Solutions
www.fagerhult.co.uk

Hacel Lighting
www.hacel.co.uk

Bathroom Lighting

Forum Lighting Solutions
www.forumlightingsolutions.com

Cable Specialists

Arditi
www.arditiuk.co.uk

Flexform
www.flexform.co.uk

Commercial Lighting

d'lux
www.inspired-lighting.co.uk

Connector and Lighting Control Solutions

Metway
www.metway.co.uk

Control Gear

Venture Lighting Europe
www.venturelightingeurope.com

Decorative Lighting

d'eco
www.inspired-lighting.co.uk

Diyas
www.diyaslighting.co.uk

Mantra
www.mantralighting.co.uk

Dimmers

Arditi
www.arditiuk.co.uk

Downlights

Megaman
www.megamanuk.com

Emergency Lighting

Emergency Lighting Products
www.elp.uk.com

Mackwell
www.mackwell.com

Emergency Lighting Conversions

COCO Lighting Limited
www.cocolighting.com

Mackwell
www.mackwell.com

Energy Saving Controls

Flex Connectors
www.flexconnectors.co.uk

Energy Saving HID Lamps

Venture Lighting Europe
www.venturelightingeurope.com

Energy Saving Lighting Controls

DANLERS Ltd
www.danlers.co.uk

Events Lighting

Mushroom Lighting Technology
www.mushroomlighting.com

Exterior Lighting

Kingfisher Lighting
www.kingfisherlighting.com

Fibre Optics

Absolute Action Ltd
www.absolute-action.com

Heritage, Bespoke & Decorative Lighting

Charter Lighting Ltd
www.charterlighting.com

Horticultural Lighting

Carclo Optics
www.carclo-optics.com

Human Centric lighting

Carclo Optics
www.carclo-optics.com

Industrial LED Lighting

Nualight
www.nualight.com

Interior & Exterior Lighting

Mr Resistor
www.mr-resistor.co.uk

Selux Lighting
www.selux.com

Lamps

GE Lighting
www.gelighting.com

Mandarin Arts
www.mandarinarts.co.uk

Lampholders

Arditi
www.arditiuk.co.uk

S. Lilley & Son Ltd
www.s-lilley.co.uk

LED

MJ Lighting Technology Limited
www.mjlighting.com

LED Drivers

Arditi
www.arditiuk.co.uk

Bright Green Connect Limited
www.brightgreenconnect.com

Ecopac Power
www.ecopacpower.co.uk

LED Lighting & Controls

Dextra Group plc.
www.dextragroup.co.uk

LED Light Sheet Panel

Bright Green Technology Ltd
www.brightgreentechnology.com

LED Light Sheet Panel

MJ Lighting Technology Limited
www.mjlighting.com

Lighting Association

The Institution of Lighting Professionals (ILP)
www.theilp.org.uk

Lighting Controls

B.E.G. UK Ltd
www.beg-luxomat.com

DANLERS Ltd

www.danlers.co.uk

Mr Resistor

www.mr-resistor.co.uk

Lighting Design

Mushroom Lighting Technology
www.mushroomlighting.com

Lighting Manufacturer

Helvar Ltd
www.helvar.co.uk

Lighting Manufacturer & Distributors

Enigma Lighting
www.enigmalighting.com

Lighting Organisation

Lighting Industry Association
www.thelia.org.uk

Lighting Solutions

Gamma Illumination
www.gamma-uk.com

Long Life Lamps

Aura Light
www.auralight.com

Low Energy Lamps

Megaman
www.megamanuk.com

Marine Lighting

Timage
www.timage.eu

OEM Lighting Solutions

Forge Europa
www.forge-europa.co.uk

Office Lighting

Feilo Sylvania
www.feilosylvania.com

Outdoor Lighting

Megaman
www.megamanuk.com

Photometric Testing

COCO Lighting Limited
www.cocolighting.com

Power Distribution

GSL Power
www.gslpower.com

PR & Marketing

Wildwood PR
www.wildwoodpr.co.uk

Recruitment

Hayden Nash
www.hayden-nash.co.uk

Recycling

Recolight
www.recolight.co.uk

Retail Lighting

Feilo Sylvania
www.feilosylvania.com

Self Testing Emergency Lighting

P4 Limited
www.p4fastel.co.uk

Smart LED Lighting Solutions

Signify UKI
www.signify.com

Spring Manufacturers

Simpson Springs
www.simpsonsprings.co.uk

Switch Plates & Sockets

Hamilton Litestat
www.hamilton-litestat.com

Training

Lighting Industry Academy
www.thelia.org.uk

A1 Lighting

Can your potential customer find you?

If you would like to advertise in this section please contact
+44 (0)1787 222251 or email sales@a1mediamagazines.com

Quick Reference

ARCHITECTURAL CONTROLS MANUFACTURER



Pharos Architectural Controls is an award-winning British manufacturer of dynamic lighting control solutions for architecture and other specialist industries. Our products are highly flexible, versatile and powerful, and trusted to run day and night illuminating iconic installations around the world.

+44 (0)20 7471 9449
sales@pharoscontrols.com
www.pharoscontrols.com

DECORATIVE LIGHTING



Unleash your creativity with the UK's cutting-edge innovator in bespoke decorative signage and faux neon, marrying energy efficiency with luminous artistry.
#fauxkinggoodneon

Neonplus®
+44 (0)113 252 4706
sales@thesigngroup.co.uk
www.neonplus.co.uk

INTELLIGENT LIGHTING CONTROL



At Helvar we create intelligent and energy-saving lighting solutions. Helvar lighting control solutions help to create smart environments built for the future, using information and working seamlessly with other systems. With a wide range of lighting controls and luminaire components, we provide open and flexible solutions for lighting and smart buildings designed with people at the heart.

Helvar Ltd
Tel: +44 1322 617200 Fax: +44 1322 617229
www.helvar.com uk.systemsales@helvar.com
Helvar Ltd Hawley Mill, Hawley Road, Dartford, Kent, DA2 7SY, United Kingdom

BATHROOM LIGHTING



Forum stock the widest range of decorative bathroom lighting in the UK. Please contact us for information on items ranging from chandeliers, wall lights and downlights to LED illuminated mirrors and cabinets.

Forum Lighting Solutions
Tel: 0161 3594949
Email: info@forumlightingsolutions.com
Web: www.forumlightingsolutions.com

DISPLAY LIGHTING



Award winning specialist display and event lighting with 50 years of experience. Mushroom utilise the latest in technology to ensure a fabulous end result to present your products in the best possible light.

Mushroom Lighting Technology Ltd
T: +44 (0)1604 790 900
E: info@mushroomlighting.com
www.mushroomlighting.com

LAMP HOLDERS



S Lilley is the leading UK manufacturer of lampholders and lighting components. A friendly family business with a professional approach, that offers exceptional quality and service.

Our large stocks ensure a rapid response to your requirements. We offer a bespoke manufacturing service for clients own designs. A full colour catalogue is available on request.

S Lilley & Son Ltd
Tel: 0121 622 2385 Fax: 0121 666 6148
Web www.s-lilley.co.uk E-Mail sales@s-lilley.co.uk
80 Alcester Street, Birmingham B12 0QE

CABLE AND LIGHTING COMPONENTS



Arditi UK offer a wide range of lighting accessories from stock that includes lampholders, switches, plugs, dimmers, 2 & 3 core cord sets, twisted and round braided cables, LED power supplies, flexible strip and neon flex.

Arditi UK Limited
Tel: 01604 864615 Fax: 01604 864507
www.arditiuk.co.uk
6 Hawthorn Close, Hartwell Business Park, Hartwell, Northants NN7 2FA

EMERGENCY LIGHTING



Emergency Lighting Products Ltd. (ELP) design and manufacture electronics, luminaires and associated equipment primarily for life safety applications. The company is a market leader in LED products and specialises in providing high quality equipment supported by superior service from their ISO9000 and ICEL1004 Registered factory in Billingshurst.

Emergency Lighting Products Limited
Tel: 01403 786601 Fax: 01403 786602
www.elp.uk.com. Email: sales@elp.uk.com
Unit 9 Gillmans Industrial Estate, Natts Lane, Billingshurst RH14 9EZ

LED LIGHTING



Dextra Group plc, the largest privately owned lighting manufacturer in the country, designs and manufactures quality lighting products, both standard and bespoke design, from its purpose-built factory in North Dorset.

Dextra Group plc.
Tel: 01747 858100
enquiries@dextragroup.co.uk
dextragroup.co.uk
Dextra Group plc, Brickfields Business Park, Gillingham, Dorset, SP8 4PX

CABLES



Flexform Cable Engineering are manufacturers of decorative braided cables in round, twisted or oval. There are over 70 colours to choose from in the textile braided finish, with some metallic finishes also available. Made in Belfast, United Kingdom. Samples available on request.

Flexform Cable Engineering
T: +44 (0)28 9079 2155 F: +44 (0)28 9079 9031
Email: info@flexform.co.uk www.flexform.co.uk
34 Montgomery Road, Belfast, Northern Ireland, BT6 9HL

EMERGENCY LIGHTING SOLUTIONS



Emergency lighting specialists making spaces safer and more sustainable with lighting solutions. COCO is a BSI ISO9001:2015 certified company. All processes are measured against the highest industry standards with every conversion fully tested, guaranteed and UKCA certified to meet UK Compliance.

COCO Lighting Limited
Tel: 01376 331 515
Email: sales@cocolighting.com
www.cocolighting.com

LED LIGHTING



Tamlite Lighting is an multi award-winning UK lighting manufacturer founded 1967 in Telford, offering one of the broadest, strongest, and most technically advanced product portfolios of any lighting manufacturer.

Tamlite Lighting
+44 (0)1527 517 777
www.tamlite.co.uk
Tamlite, Sales Centre, Park Farm Industrial Estate, Redditch, Worcestershire, B98 0HU

DECORATIVE LIGHTING



We design and distribute unique decorative and commercial lighting under the brands Diyas, Deco, Dlux and Mantra. Appointed distributors of Luxram and Techtouch. Branches in UK, India and Dubai.

Inspired Lighting Ltd
Tel. +44 (0)1706 62 00 77 - Fax. +44 (0)1706 62 00 79
www.inspired-lighting.co.uk
sales@inspired-lighting.co.uk
Inspired Lighting Ltd, Sefton Street, Heywood. OL10 2JF

EXTERIOR LIGHTING SOLUTIONS



For organisations and professionals developing external environments, DW Windsor make light work. Established in 1976, DW Windsor is a service-led manufacturer of high quality lighting equipment and smart IoT technology solutions.

DW Windsor
Tel: +44 (0)1992 474600
Email: info@dwwindsor.com
www.dwwindsor.com

LED LIGHTING SOLUTIONS



MJ Lighting design, manufacture and supply LED lighting systems for the Architectural, Retail and Commercial applications whether it be bespoke or standard designs. We have built up a good reputation on service and quality.

MJ Lighting Technology Ltd
Tel: 01829 741702
Email : sales@mjlighting.com
www.mjlighting.com
Thornton Science Park, Pool Lane, Chester, CH2 4NU

LED LIGHTING SOLUTIONS



The comprehensive collection of lighting products from Ovvia® will provide solutions for a whole spectrum of projects in a broad variety of sectors, including domestic, commercial, industrial, utility, amenity, emergency lighting and floodlighting. The lighting offer is further enhanced with the inclusion of a full range of lighting control solutions that will optimise energy saving credentials.

Ovia Lighting Ltd
T: +44 (0)1827 300640
sales@oviauk.com
www.oviauk.com

LIGHTING REMANUFACTURING



Emergency lighting specialists making spaces safer and more sustainable. Remanufacturing ensures less maintenance, longer product life and reduced E-waste to landfill.

Contact us for a coffee and a chat.

COCO Lighting Limited
01376 331 515 sales@cocolighting.com
www.cocolighting.com

SELF TESTING EMERGENCY LIGHTING



FASTEL - Fully Automated Self Testing Emergency Lighting. Pioneered by P4 over 30 years ago, FASTEL is recognised as the most robust, reliable and cost-effective system in emergency lighting. Certified to BSEN 62034, it is flexible, easy to install, even easier to operate and ensures compliance with all the latest emergency lighting standards. Call for a consultation.

P4 Limited
Tel: 01328 850555
Email: info@p4fastel.co.uk
www.p4fastel.co.uk

LED OPTICS



Carclo Optics boasts unrivalled expertise in LED optical design, development and manufacture. Our in-house dedicated team provides innovative specialist design solutions, whilst our dedicated global manufacturing sites ensure we have a local presence on a global scale.

Carclo +44 (0)1753 575011
sales@carclo-optics.com www.carclo-optics.com
6-7 Faraday Road, Rabans Lane Industrial Area,
Aylesbury HP19 8RY

LIGHTING TRADE ASSOCIATION



The LIA is the largest lighting trade association in Europe and is dedicated to serving the UK's lighting industry and its supply chain. Our members benefit from up to date advice, technical support, laboratory testing services, a full suite of training courses and fantastic networking opportunities.

The Lighting Industry Association
Tel: 01952 290905
Email: enquiries@thelia.org.uk
Website: www.thelia.org.uk

SMART LIGHTING CONTROLS



DANLERS design and manufacture a range of lighting controls for energy saving, security and convenience: mainly PIR occupancy switches for both conventional wiring and for the leading wireless meshing ecosystems.

DANLERS Limited
Tel: 01249 443377 Fax: 01249 443388
sales@danlers.co.uk www.danlers.co.uk
DANLERS Business Centre, Vincients Road,
Chippenham, Wiltshire SN14 6NQ

LIGHTING AND ELECTRICAL COMPONENTS



Arditi UK offer a wide range of lighting accessories from stock that includes lampholders, switches, plugs, dimmers, 2 & 3 core cord sets, twisted and round braided cables, LED power supplies, flexible strip and neon flex.

Arditi UK Limited
Tel: 01604 864615 Fax: 01604 864507
www.arditiuk.co.uk
6 Hawthorn Close, Hartwell Business Park, Hartwell,
Northants NN7 2FA

OEM LIGHTING SPECIALISTS



Enhance your LED lighting products with Forge Europa, from custom optics and standard light engines to custom PCB assemblies. Whether it's a single LED on PCB or a complete luminaire we can help take you from concept to volume production, with ease.

Forge Europa Ltd
Tel: +44 (0)1229 580000 sales@forge-europa.co.uk
www.forge-europa.co.uk

SPRING MANUFACTURERS



Springs and Clips for the Lighting industry. Diffuser, Wishbone, Louvre Downlighter dichroic, etc. From stock and custom made.

Simpson Springs
Tel: 0118 978 6573 Fax: 0118 989 4434
Web: www.simpsonsprings.co.uk
E-Mail: sales@simpsonsprings.co.uk
Unit 1 Latimer Road Industrial Estate, Latimer Road,
Wokingham, Berks. RG41 2YD.

LIGHTING CONNECTOR SOLUTIONS



Metway has been supplying connector solutions to the lighting industry for 80 years. We supply industry standard terminals and connectors from our Brighton site for next day delivery. Our wiring systems division provides a pre-fabricated plug and play alternative to conventional wiring and lighting control.

Metway
01273 431600
sales@metway.co.uk www.metway.co.uk

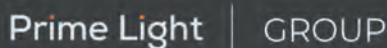
PHOTOMETRY EQUIPMENT



Pro-Lite provides professional-grade equipment for almost any application in measuring the colour, brightness and beam shape from lamps and luminaires. Plus expert training in light measurement and photometry.

Pro-Lite Technology Ltd
Tel: +44 (0)1234 436110 info@pro-lite.co.uk
www.pro-lite.co.uk
Innovation Centre, University Way, Cranfield,
Bedfordshire, MK43 0BT

LIGHTING CONTROLS, EMERGENCY, DRIVERS AND COMPONENTS



Prime Light has been in the specialist lighting business for 30 years. The company has rapidly expanded in recent years, becoming Prime Light Group, which comprises Prime Controls, Prime Components, Prime Drivers and Prime Emergency.

Prime Light
+44 (0)20 8968 2000
sales@primelight.co.uk www.primelight.co.uk
Prime Light Electrical Ltd, 13 Gateway Trading
Estate, Hythe Road, London, NW10 6RJ

RECYCLING FOR ALL ELECTRICAL ITEMS



With ReColight, lamp recycling is free because ReColight are a not-for-profit WEEE Compliance Scheme, funded by Lighting Producer Members. Recycling for light fittings, batteries and electricals is a low cost, competitive service. Giving you a complete WEEE solution.

ReColight
Talk to us on 020 8253 9750
info@recolight.co.uk www.recolight.co.uk



**To advertise
in this section
please contact**

+44 (0)1787 222251

or email

sales@a1mediamagazines.com

Lighting control installations on restricted budgets



Julian Kay, Managing Director of DANLERS Limited, discusses options for lighting control projects on restricted budgets.

For the many organisations which are currently facing financial pressures, large or complex lighting control projects can seem difficult to justify. This is not to say that more involved projects are not worthwhile; it is just that the realities of cashflow restraints can limit what budgets are available.

For many organisations, projects with a low financial outlay and a relatively predictable return on investment will be seen as particularly favourable.

In the world of lighting control, there are many options, ranging from standalone controls, which control a single lighting circuit, to complex lighting control systems or product ecosystems, which can control the lighting (and sometimes other electrical functions) across an entire building or beyond.

Some of the more straightforward lighting control options, such as standalone controls, require minimal commissioning. Such controls often work "straight out of the box" and any adjustments to the settings can easily be carried out by any competent electrical installer. Project costs are kept down as there is no need for any specialist commissioning.


Passive infra-red (PIR) or microwave occupancy detectors, for example, save energy by automatically switching lights off, or dimming them down, in areas which are unoccupied or where there is sufficient ambient daylight. Such products may only require a couple of optional adjustments, such as for the time lag (the time delay from when a person is last detected moving until when the lights are switched off) or for the photocell override setting.



Using this type of device is a straightforward method of controlling the lights in the vicinity. These devices may not have all of the sophisticated functions available with fuller lighting control systems or product ecosystems, however the benefits of the basic functions can be realised, usually with a lower financial outlay.

In addition to keeping initial installation costs down, standalone controls have minimal maintenance requirements and can easily be readjusted if an area of a building undergoes a change of use. Again, there is no need for costly specialist recommissioning.

As well as reducing energy usage, saving money and reducing carbon emissions, occupancy detectors (whether standalone controls or as part of a larger system) have the added advantage

of hygiene. Where people do not have to operate a manual light switch there is a reduced opportunity for germs to be spread by touching surfaces – an advantage which can be particularly appreciated in our post-pandemic world. 



DANLERS Limited
+44 (0)1249 443377
www.danlers.co.uk

*Images courtesy of Adobe Stock.
Supplied by DANLERS Limited.*

DANLERS

Controls for Lighting & HVAC



Lighting

FIRST PLACE FOR NEWS IN YOUR INDUSTRY



CHECK OUT
OUR WEBSITE
FOR MORE
NEWS

WWW.A1LIGHTINGMAGAZINE.COM



The **one-stop** solution for all your emergency lighting needs

Unrivalled experience and high-quality products
from recognised industry experts.

Bulkheads



Low maintenance,
reliable emergency lighting
solutions

Signage



Practical emergency signage
solutions to meet your
requirements.

Commercial



Commercial lighting
products that comply with
UK regulations.

Amenity



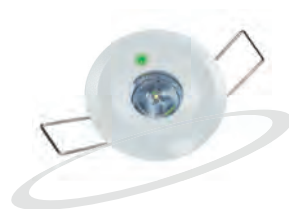
Mains-only and
emergency LED amenity
lighting products.

Twin Floods



Twin spot emergency
lighting to suit all
requirements.

Downlights



LED emergency downlights
offering versatile safety
solutions.

Testing



Wired and Bluetooth
wireless emergency light
testing system

Central Power



Static inverter and central
battery systems to suit specific
project demands.

Conversion Products & Services



We are an ISO 9001:2008
audited and ICEL registered
conversion house.

Safe in the knowledge

t. 01403 786601 | e. sales@elp.uk.com | w. elp.uk.com

