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Lighting

Light and dark

A return to pre-LED design principles is creating more sensitive lighting installations





Silver Jubilee Bridge, Runcorn

Arup won a Platinum Build Back Better award for its illumination of the Silver Jubilee Bridge, which crosses the River Mersey between Runcorn and Widnes.

The lighting design aimed to reflect the bridge's history, structural form and details, honour its builders, reduce

obtrusive light, and emphasise the structure against the modern Mersey Gateway Bridge upstream.

While the old design flooded the bridge with cold white light, Arup's illumination minimises obtrusive light and its negative impact on biodiversity

and the nocturnal environment. The design illuminates the lower and upper chords of the arch with a concealed projector.

Low-powered luminaires within the structure reveal the fine detail of the 61-year-old bridge.

Hello darkness, my old friend

How three award winners used discreet lighting to highlight heritage structures

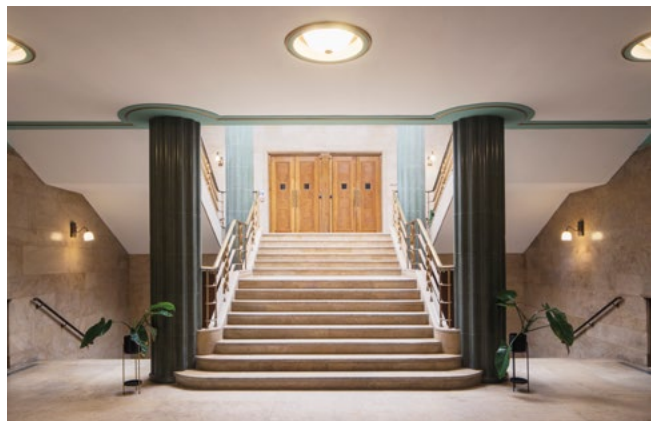


Saint Patrick's Church, County Mayo, Ireland

The illumination of Saint Patrick's Church by Dark Source won a Build Back Better Platinum and Green award.

The church had been fully illuminated, but a dark-sky approach resulted in lighting being used sparingly to draw attention to the church's architectural features: The vertical nature of the front façade windows and stained glasswork is emphasised by backlighting, which contrasts with horizontal illuminations elsewhere. The judicious use of LED lighting has resulted in a 40% reduction in light pollution.

The grounds have also been illuminated, making the church a welcoming destination at night.



Bromley Town Hall, London

An artificial skylight linked to daylight sensors is the central feature of the refurbishment of Bromley Town Hall, which won a Build Back Better Gold award.

Working with architect Cartwright Pickard and Fusion Interiors Group, lighting designer Nulty drew attention to original details of the 1907 building, and luminaires were either refurbished or faithfully reproduced. The skylight was installed in a 1930s extension, where none of the original fittings had survived.

Emergency lighting was hidden among original features and the basement has wall-mounted linear lighting that brings warmth to its raw brick and concrete aesthetic.



Lightening impacts

The lighting industry is undergoing a transformative shift towards circularity, sustainability and repair, signalling its commitment to reducing environmental impact. This change focuses on holistic design approaches that prioritise the needs of people and spaces, as well as the environment.

This was a key focus of November's Light2Perform event at CIBSE Build2Perform, where industry leaders gathered to discuss the future of lighting. Central to the discussion was TM66, a tool that is driving sustainable practices by addressing embodied carbon and supporting circular economy principles (page 40).

SLL president Dan Lister joined a panel of experts at Light2Perform for a debate on rethinking sustainability (page 34). He championed a 'less is more' approach, advocating for careful design that aligns lighting with the needs of specific spaces and users. As Lister explained in an interview with the *CIBSE Journal*, his presidency has prioritised reducing embodied carbon while promoting a broader view of sustainability to include facilities management teams and support services (page 32).

The importance of integrating these principles was demonstrated by Whitecroft Lighting, which won the CIBSE Embodied Carbon Award earlier this year. By adopting lean manufacturing and design, Whitecroft has successfully reduced the life-cycle carbon of its products by up to 46% (page 38).

Meanwhile, the Build Back Better Awards showcased inspiring projects that are pushing the boundaries of what thoughtful lighting can achieve. These projects (page 30) prove that innovation and environmental responsibility go hand in hand. ●

● **Molly Tooher-Rudd, reporter**

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CIBSE Embodied Carbon Award winner Whitecroft cut life-cycle carbon from its products by 46%. The firm's **Tim Bowes** tells **Molly Tooher-Rudd** how they did it

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An expert panel at Light2Perform discussed opportunities and challenges of circularity and repair

Sustainable CPDs

Tamlite Lighting is committed to equipping professionals with the knowledge to achieve sustainable and compliant lighting practices through its CIBSE-accredited CPD courses. Tailored to architects, engineers and lighting consultants, these address the latest standards, trends and regulations, helping participants to make informed decisions that drive positive change. Our most popular CPDs include:

Regaining dark skies: This explores the principles of Dark Sky compliance for responsible outdoor lighting design, to minimise light pollution. Learn how to reduce unnecessary upward light spill, helping to preserve natural nightscapes while balancing functional lighting needs.

Towards a circular economy for luminaires: Focusing on the circular economy's impact on lighting, this CPD highlights sustainable practices, such as remanufacturing and recycling. Attendees gain insights into extending product life, reducing waste, and enhancing sustainability in lighting design.

Common pitfalls with emergency lighting compliance: Designed to address the latest safety standards, this CPD covers best practices for emergency lighting, focused on compliance, safe evacuation and reliable design. Professionals gain the foundational knowledge needed to meet safety regulations and protect building occupants effectively. ●



Debbie-Sue Farrell, head of wellbeing and marketing manager at Tamlite Lighting

Doing more with less

Lighting design should prioritise people-orientated lighting solutions while reducing embodied and operational carbon, according to SLL president **Dan Lister**, who tells **Molly Tooher-Rudd** that lighters should learn lessons from the past, when high costs meant luminaires were used sparingly

Lighting professionals must go beyond the bare minimum to deliver sustainable outcomes for end users, says Dan Lister, president of the Society of Light and Lighting (SLL), as well as Arup director and UK lighting practice leader.

During his presidential address in May, Lister told the audience that the industry 'had a moral responsibility to provide the best possible solutions within given constraints.'

He said lighting engineers had to do more with less, and reducing carbon in lighting was at the forefront of the decarbonisation challenge for buildings.

Other critical issues facing the industry, he added, are emerging technology, changing regulations, and the role of artificial intelligence.

In his address, Lister issued a call to action for colleagues and SSL members to consider not just the calculable aspects of light – such as energy, embodied carbon, light spill



and cost – but also the less tangible aspects, such as quality, perception, experience, visual comfort, and occupant comfort. He also told members to think about the needs of different parts of society.

Lister has seen the lighting industry evolve rapidly over the years, particularly with the advent of LED technology. 'LEDs became prominent

in the mid-2000s and quickly transformed the field,' he explains.

Reflecting on this transition, he points out that lighting was used sparingly, historically, 'because it was expensive to run and difficult to maintain'. With LEDs, however, designers gained the freedom to incorporate more light sources without the prohibitive costs.

This newfound flexibility presents fresh challenges, such as overlighting and greater risk of introducing glare, says Lister, and industry is now having to look more closely at the balance between energy use and comfort.

He emphasises the importance of understanding these shifts. 'We have early careers and young designers who have never known anything else but LEDs, and it can be hard to appreciate the challenges and limitations of older lighting methods.'

Understanding the evolution of lighting technology can lead to a more mindful approach to design, Lister adds, bringing the focus back to the occupiers of the space. He believes today's lighting choices should be informed by past lessons learned.

'One of the things we're looking to do early next year is provide something to help early-career professionals understand older technology – to identify the pros and cons of what came before,' he says.

New guide on creative lighting

'I think we are missing the human aspect (beyond inclusive design) – If we are not lighting for the needs of people, why are we lighting it at all?' Lister says. Part of this is understanding how good design can become great design, being far more than just functional – but creating atmosphere and supporting the experience of the individual. This is where the upcoming creative lighting guide will be invaluable. It delves into the essential role of light in architecture; considering how light, both natural and artificial, transcends its functional purpose, becoming a crucial element in design.

This guide addresses the architectural lighting design process,

Seeing the light: Lister's career path

Dan Lister's journey into the lighting industry was not something he anticipated, but rather something he 'kind of fell into'.

With a background in electronic engineering, his initial exposure to lighting came during a placement with Arup in his second year of university, when he was introduced to the world of building services.

This experience gave him a new perspective on lighting and showed him it could transform spaces and people's experiences of them. He was particularly drawn to how lighting design blends science and art.

'I was fascinated by the way that

engineering intersects with people – the artistry combined with numbers contribute to how you experience a space,' says Lister.

This introduction to the field sparked a lifelong passion, leading to him pursuing a Master's degree in light and lighting at University College London, a programme he describes as the foundation of his career.

Since then, Lister has worked on a vast array of projects, ranging from public infrastructure and environmental conservation to international museums and residential spaces.

offering creative and practical guidance suitable for any project. It aims to complement existing standards bodies such as the SLL and the BSI, focusing on our role as designers to, where appropriate, challenge these standards to support innovative design.

The guide seeks to enhance the quality of lighting design across the built environment. It acknowledges the significant changes in the lighting industry, such as the advent of LEDs and the push for sustainable, inclusive, and health-conscious designs.

The guide is not a one-size-fits-all solution, but offers detailed considerations for various project stages, helping designers navigate the complexities of the modern and evolving landscape of lighting design.

Inclusive design

Lister also spoke during his presidential address about the need for inclusivity in lighting design, particularly for visually impaired and neurodiverse individuals.

'We need to create better user experiences,' he asserts. 'If we aren't lighting for people, then we're missing the mark.'

By considering the needs of diverse populations, Lister believes lighting designers can create spaces that are not only visually appealing, but also accessible and comfortable for everyone.

'Lighting has a role in adding social value,' Lister says. 'The more we can do to draw interest and bring value to society, the better.'



Integrated daylight: 'Driven Voids' at the Reid Building at the Glasgow School of Art

Naturally lit

On the environmental front, Lister is increasingly aware of how lighting affects biodiversity and natural habitats. In an ideal world, he believes lighters should aim for zero environmental impact and avoid lighting entirely.

Safety and practicality require a balanced approach, he says, where light levels and spectral properties are carefully managed to minimise ecological disturbance.

'Technology has shown us different ways to achieve this balance, from dynamic controls that dim or turn off lighting at night to colour temperatures that minimise impacts on plants and nocturnal animals. It's all about context,' he explains, stressing

that a 'race to zero' should always be tempered by practical considerations.

Looking to the future, Lister is focused on how the industry can continue to evolve sustainably while also maintaining high design standards. He is involved in the development of industry standards, including TM65.2 and TM66, which provide frameworks for measuring and reducing embodied carbon.

Lister is encouraged by the alignment of manufacturers, designers, and standards bodies in pushing for sustainability: 'The market will drive itself once everyone is aligned.'

For young engineers entering the field, Lister's advice is to stay curious and open-minded. 'Embrace everything,' he says. 'Don't approach it purely as an engineer.'

At Arup, he works with a diverse team, half of whom don't have engineering degrees. He believes this variety of backgrounds strengthens the field, blending science and art in unique ways.

Lister encourages newcomers to understand the basics and fundamentals of lighting, but to also think independently and creatively.

'To be truly great, you need to adopt the guidance but think for yourself,' he advises. For him, lighting design is about more than just numbers; it's about connecting with people and creating meaningful experiences. ●



Forgotten space: Lighting used to rejuvenate a sense of place at the University of Sheffield Concourse

Treading a circular path

As the lighting industry increasingly focuses on circularity and repair, an expert panel at Light2Perform discussed opportunities and challenges

The lighting industry is driving conversations around sustainability, circularity and repair, with growing recognition that real progress requires a cultural shift.

The topic was the subject of a panel session at last month's Light2Perform event, at Build2Perform Live, chaired by Matt Waring, editor at [d]arc media.

Opening the discussion, Dan Lister, Society of Light and Lighting (SLL) president and Arup associate director, highlighted how clients are keen to retrofit their lighting with 'large-scale LED upgrades' – but the challenge is not just about deploying LEDs, but also about reducing their environmental impact, he said.

A key milestone has been the development of BS 8887, which focuses on remanufacturing, added Lister, who called it 'a game changer' for its ability to offer more consistent metrics for sustainability.

Simon Fisher, founder and director of F Mark, said he has seen a growing appetite for change over the past 10 years, but costs remain a barrier for many clients. He added that sustainability is becoming a more valid metric with the emergence of TM65.2 and TM66, which focus on embodied carbon calculations and circular economy principles respectively.

The conversation shifted to the practical application of circularity, particularly the reuse and refurbishment of lighting products. Lister shared Arup's experience of refurbishing light fittings in its own offices, achieving an embodied carbon reduction of more than 80%. 'It's not as hard as everyone thinks it is,' he said, adding that case studies are critical for building confidence among clients.

'We're conditioned to think that new



From left: Matt Waring, Simon Fisher, Kristina Allison and Dan Lister

is best,' Fisher said. 'We need to demonstrate through case studies that remanufactured products can deliver the same or better results.' This cultural shift, he argued, is essential for scaling up reuse and repair.

Kristina Allison, associate at WSP, said circularity must be embedded into the design process: 'It shouldn't even be a question. It's our responsibility as designers to make sustainability a core part of our work.'

The concept of lighting as a service emerged as a key topic. Fisher acknowledged its potential to monitor and report environmental benefits, but admitted: 'It's a nightmare to implement.' He cited the complexity of ownership models, and the disconnect between specifiers, manufacturers and end users, as significant barriers.

Lister pointed out that design plays a vital role in sustainability, regardless of the delivery model. 'The biggest impact on embodied and operational carbon is the design,' he said. 'It's about finding the right solution for the space and avoiding over-provisioning.' He explained that effective lighting solutions require a conscious approach to fitting design, placement, and embodied carbon savings, which are sometimes overlooked in favour of contractual and operational simplicity.

Allison agreed, emphasising the importance of focusing on people. 'If the lighting isn't for the people using the

space, we don't need it,' she said, echoing the sentiment that sustainability must go hand in hand with human-centred design.

Education and legislation

Allison stressed the need for education, within the industry and among the public. 'It's about changing society's attitudes,' she said, citing night-light festivals and school engagement programmes as examples of how the industry can inspire the next generation.

Fisher shared his work on Scotland's upcoming Circular Economy Bill. 'On our first call with the Scottish government, the goal was clear: they never want to buy a new light fitting again,' he said. While this might not be practical, Fisher emphasised the importance of considering reuse and remanufacture in all procurement decisions.

The panel concluded by discussing the role of organisations such as the SLL in driving forward sustainability. Again, Lister highlighted the importance of technical standards. 'The rest of the world is looking at us,' he said. 'The way to make real change is to get these standards out there and make them more powerful.'

'Let's not just drive for low carbon and low energy use and sacrifice the human aspect. More is less; put less light in. We need to make sure we are lighting in the right place at the right time.' ●

The ultimate emergency lighting design guide and Wellington College's emergency evacuation system

Learn the six steps to an effective emergency lighting design

Eaton's *Fundamentals of emergency lighting* guide is a must-read for engineers, architects, and facility managers dedicated to building safety. This comprehensive resource delves into the critical aspects of emergency lighting systems, offering detailed insights into design principles, regulatory requirements, and maintenance strategies.

The guide covers essential topics such as the types of emergency lighting, the importance of proper installation, and the latest industry standards. It also provides practical advice on conducting risk assessments and ensuring compliance with safety regulations. By exploring these areas, professionals can enhance their understanding and implementation of effective emergency lighting solutions.

This guide is particularly useful for those involved in the planning, design and maintenance of building safety systems, helping them to ensure that their projects meet the highest standards of safety and reliability. Download your copy to stay informed and prepared.

● For more information:
b.link/Emerg_light_fund

Wellington College's safe evacuation

Wellington College, in Crowthorne, Berkshire, is an English boarding school, which means pupils, and some staff, live and sleep at the school. The college was already pleased with Eaton's emergency lighting range, having used Eaton technology for more than six years, but its current system was in need of an upgrade. The school has more than 1,200 pupils and more than 600 staff, as well as visitors, so proper preparation for safe evacuation is vital. As a site with all year-round activity, Eaton's CGLine+ was a great solution because of its easy installation and online monitoring features, generating no disruption.

CG Line+ is a controlling and monitoring system designed for large-scale operations, with the ability to monitor up to 480 luminaries. Its web-based visualisation displays all of the different lighting zones in the college, allowing the Wellington staff to immediately identify any issues, as well as conduct control and test functions. Installation is ongoing, but each new area of lighting is uploaded upon completion, which results in a seamless transition across the campus. Eaton will continue to provide service support



for the system, as well as consultancy advice.

Paul Fox, senior electrician at Wellington College, said: 'We are working towards 100% of our emergency lighting being Eaton products; they are the best in class, being robust, efficient and easy to maintain.'

● For more information: b.link/Wellington_College_upgrade

Emergency lighting solutions

Eaton's emergency lighting solutions stand out for their reliability, innovation, and compliance with safety standards. The company's extensive product range is designed to meet diverse architectural needs, ensuring seamless integration into any building design. Eaton remains focused on developing solutions for safe evacuation. Its adaptive signage allows the building owner to direct people out of the building as and when the nature of the threat changes. Did you know that only 38% of people see conventional exit signs during an evacuation? Eaton's new increased affordance technology enables exit signs to flash or pulse during an emergency evacuation, making them much more visible to occupants. When it comes to safe evacuation, leave it with Eaton.


● For more information:
b.link/Emergency_lighting



Wellington College in Crowthorne, Berkshire

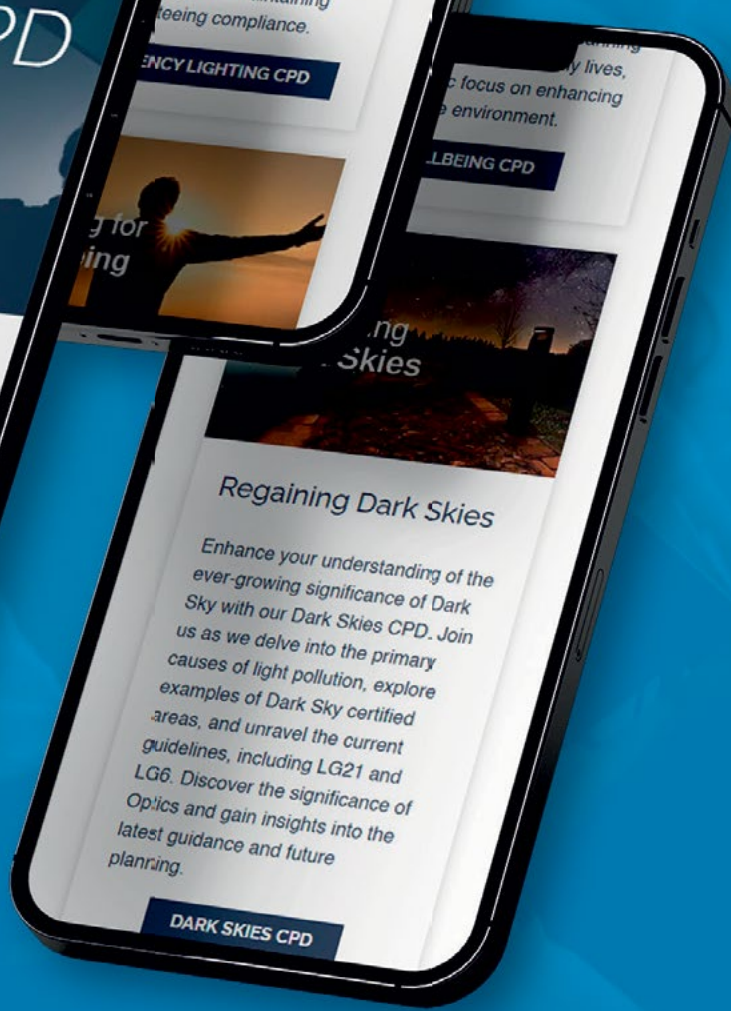
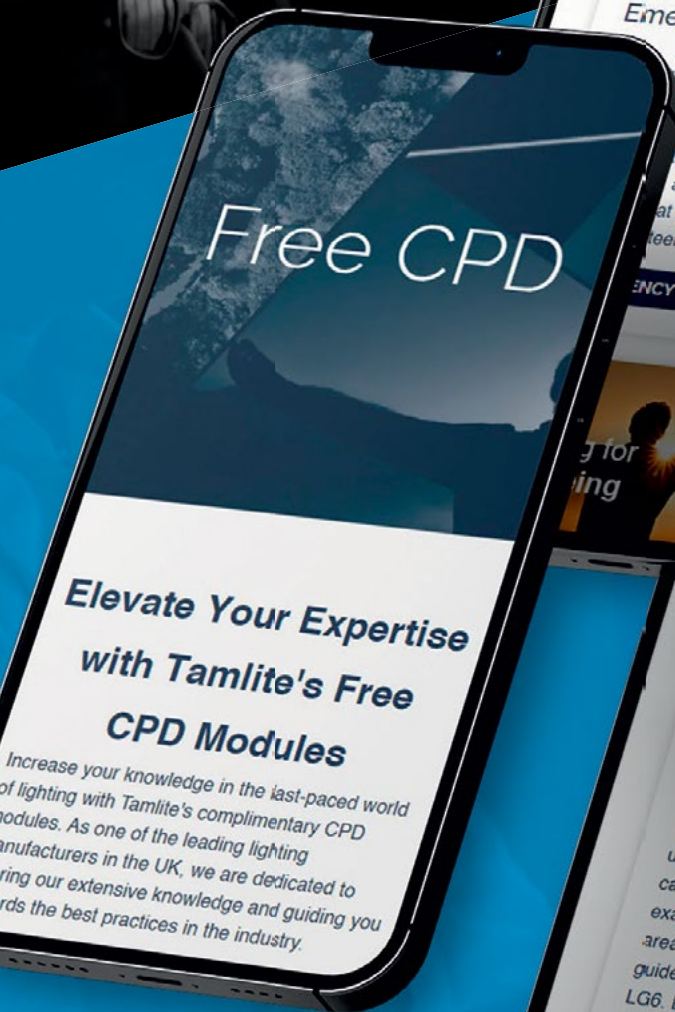
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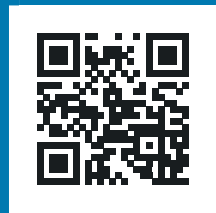


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An exploded view of the Cascade Flex luminaire

Cutting carbon, not corners

Whitecroft Lighting won a CIBSE Embodied Carbon Award by adopting lean manufacturing and design to cut life-cycle carbon from its products by up to 46%. **Molly Tooher-Rudd** speaks to the firm's Tim Bowes about its circular approach

The industry-wide focus on cutting embodied carbon in lighting makes Whitecroft's win in the CIBSE Building Performance Awards category particularly impressive. Judges praised the manufacturer's cradle-to-cradle (C2C) approach to lighting design and its commitment to reducing embodied carbon in its products

The accolade acknowledges Whitecroft's exceptional efforts to address embodied carbon alongside the operational carbon savings associated with LED lighting.

Five years ago, the company embarked on a transformative journey to rethink the design, manufacture and life-cycle of its lighting products. While LED technology brought significant energy savings during operation, Whitecroft recognised the need to

address the carbon impact of its products across their entire life-cycle.

'We realised that the impact goes beyond the operation of our products; it extends into the design and manufacture, and who we are as a business,' says Tim Bowes MSL, head of academy at Whitecroft and closely associated with its sustainability strategy.

The shift led the firm to embrace circularity as a core design philosophy and it has spent the past five years finding ways to reduce the materials used in its products and replacing glues and adhesives.

'We questioned the amount of material we used, how much we needed, and where it came from,' says Bowes. 'Our designs now minimise screws and eliminate adhesives, making them easier to maintain, repair and recycle.'

Whitecroft's Cascade Flex Family (CFF) luminaire is designed with replaceable components and drastically reduced plastic content, and has cut embodied carbon by 46% over a 40-year lifespan compared with standard flat-panel luminaires.

'Standard industry flat-panel luminaires contain significant amounts of plastic and are often replaced during a building's life-cycle, increasing embodied carbon,' says Bowes.

'The CFF, however, uses 67% less plastic – equivalent to 68 plastic bottles – and has a replaceable central cartridge that can be refurbished and reused multiple times.'

Whitecroft also prioritises local sourcing, with components such as the CFF's pods tooled in Oldham, just five miles from its factory. This reduces transportation emissions and supports

the local economy, aligning with the company's circular economy principles.

Whitecroft is the only UK lighting manufacturer to have achieved C2C accreditation, a globally recognised standard for sustainable product design. This certification rigorously evaluates materials for toxicity, environmental impact and social fairness, while ensuring products can be recycled or repurposed at the end of their life-cycle.

'C2C certification gave us the framework to verify that what we were doing was good,' says Bowes. 'It provided the granular product data we needed to develop Environmental Product Declarations [EPDs], which are vital for industry transparency.'

Based on a life-cycle assessment, EPDs provide verified information on the environmental impact of a product. Whitecroft has achieved EPDs for all of and will be provided for all NPD products going forward. By using tools such as One Click LCA software, the firm is paving the way for more efficient, cost-effective EPD creation.

EPDs also give clients critical data on embodied and operational carbon, enabling more informed decision-making. 'Our EPDs help customers map out whole life carbon impacts, ensuring savings are achieved,' says Bowes.

Whitecroft continues to enhance operational carbon efficiency through smart lighting controls, such as its Organic Response system, which dynamically adjusts lighting based on



natural daylight. Pre-set dimming modes further optimise energy use when the building is not being used fully.

With the decarbonisation of the UK's energy mix, embodied carbon will account for an increasingly significant proportion of whole life carbon. 'We need to continually innovate to reduce impacts, operationally and in terms of materials,' says Bowes.

In addition to product innovation, Whitecroft educates the industry on embodied carbon and circular design principles. With CIBSE accredited environmental CPD sessions, it shares insights into low carbon lighting design, the circular economy, smart buildings, and on repurposing existing spaces with its Relight programme.

Relight extends the lifespan of lighting systems by refurbishing and

redistributing components, reducing waste and emissions. 'This approach is fundamental to achieving net zero' says Bowes. 'We've invested heavily in this journey because we believe it's the right thing to do – for our business, our customers, and the wider industry.'

'Embodied carbon is harder to calculate for complex products such as lighting, but it's essential. Our mission is to lead from the front and demonstrate what's possible.'

A new initiative from Whitecroft is the Bright Futures Academy, aimed at addressing the skills gap in the industry while fostering internal and external development (see panel, 'Bright future'). Internally, the company emphasises a robust training culture to develop its workforce. By focusing on training, development plans and opportunities for growth, the company aims to instil its core values – committed together, curious creators, and aiming higher.

The academy also works to unify training across departments, ensuring all employees understand how their roles align with customer needs. 'By understanding better how our customers work, we can deliver the right solutions,' Bowes says.

Broader industry challenges, such as rapid technological shifts and sustainability demands are also tackled by the academy.

'The industry is trying to catch up with rapid changes, from sustainability and net zero goals to smart buildings and data analytics,' says Bowes, 'but with the right education and innovation, we can meet these challenges.' ●

Bright future

Whitecroft Lighting's Bright Futures Programme, launched initially in partnership with construction and facilities management company BAM, aims to enhance understanding of product selection and sustainability.

'We worked very closely with BAM and several of its partners, bringing in 18 to 20 graduate – and apprentice-level individuals,' explains Bowes.

The programme included a two-day event at Whitecroft, featuring team-building activities, an introduction to Whitecroft operations, and insight sessions on topics such as

lighting design, sustainability, and product development. The interactive structure of the programme allowed participants to take on roles within project chains, enhancing their understanding of product selection and decision-making. A follow-up took place in the autumn, and the initiative is designed as a 12-month programme, offering access to Whitecroft's learning management system for ongoing training.

Sustainability is a core theme, with monthly courses and multiple touchpoints throughout the year.

Circularity in focus with TM66

At Light2Perform, industry leaders debated TM66 and its transformative impact on sustainable lighting, as well as its influence on greener practices in the lighting sector

Creating a circular economy in the lighting industry was a key theme at Light2Perform, held at London ExCeL last month.

During a session on rethinking sustainability in lighting, panel members discussed the CIBSE guide *TM66 Creating a circular economy in the lighting industry*, and highlighted the emergence of the new functional unit value as a key metric for comparing lighting products' embodied carbon.

Kristina Allison, associate at WSP and co-author of TM66 (and *TM65.2 Embodied carbon in building services: lighting*) highlighted the increasing adoption of TM66.

'It's already being used across all product ranges from a manufacturer's point of view,' she explained, adding that consultants are integrating it into specifications and asking manufacturers for specific metrics.

Simon Fisher, founder and director of F Mark, elaborated on TM66's practical application, and focused on the emergence of the functional unit value as a game-changing metric.

The metric measures lighting products' embodied carbon per thousand lumens of output at 35,000 hours of life. With these parameters, he said 'you can fairly evaluate which product is better.'

Fisher emphasised how the metric helps stakeholders make informed decisions about sustainability.

'The beauty of embodied carbon calculators is that it's pure metrics,' he said.

Chair Matt Waring, editor at [d]arc media, underlined the importance of standardised comparisons, noting that: 'It's harder to manipulate figures to make yourself look better when there's a fixed point.'

Fisher agreed, explaining that 'every material has a known coefficient for embodied carbon. When applied fairly, it's an excellent method for comparing

embodied carbon across products.'

Daniel Lister, Society of Light and Lighting (SLL) President, noted TM66's growing traction in Europe and beyond. 'European manufacturers are seeing it as a game-changer. It allows that apples-to-apples comparison, which wasn't possible with previous metrics,' he said. However, he acknowledged challenges in creating universal standards. 'It's idealistic to think we could have a global standard. Getting industries to agree on a unified metric is a massive step forward.'

Lister noted, adding that, while regional variations may persist, TM66 represents a crucial move towards harmonising sustainability practices.

Lister emphasised the growing importance of reuse and circularity, particularly in higher education, where institutions manage vast portfolios of

lighting units. 'In our offices at Arup, we have seen embodied carbon savings of more than 80% simply by refurbishing light fittings. It's not as hard as people think.'

Allison agreed, but noted disparities in client awareness. 'Not all clients know they need this yet. We're still trying to influence specifications and push the conversation forward,' she admitted. Nonetheless, she is optimistic, calling it 'a high priority' for her firm and emphasising the need for persistence.

The discussion concluded with a consensus that TM66, though not perfect, is a significant step towards better sustainability metrics. As Lister stated: 'It may not be the end goal, but it's an amazing step on the journey. Anything that helps the industry focus on embodied carbon and circularity is a benefit.' ●

Turley wins SLL Young Lighter award

Kate Turley, of Chroma Lighting, was named the 2024 SLL Young Lighter at Light2Perform. Her award-winning presentation, 'A tailored dynamic lighting and sensing paradigm to support wellbeing for people living with dementia', highlights her research on the intersecting fields of lighting, technology and health.

Turley, a PhD researcher collaborating with industrial and academic partners, was lauded for her innovative work. Her journey into lighting began during her BSc in geophysics, when she gained an interest in programming, computing and the Internet of Things (IoT).

Her two-year Knowledge Transfer Partnership with Chroma Lighting and Ulster University resulted in the creation of an integrated lighting and sensing device designed to enhance the wellbeing of dementia patients. This IoT framework opens up new possibilities for understanding how light impacts dementia care, which Turley continues to explore in her PhD, supported by an Industrial Fellowship from the Royal Commission for the Exhibition of 1851.

Her contributions have garnered global recognition, with publications presented at IEEE and INSTICC conferences, and accolades such as Best PhD Project, Best Interdisciplinary Research, and the Emerging Scholar Award between 2021 and 2024.



Kristina Allison (right) and Young Lighter Kate Turley

FUTURE Designs, the leading UK lighting manufacturer, remains as ambitious as ever as it announces plan for continued success of the business

David Clements (left) will take on the role of chairman, moving away from the day-to-day running of the business to focus on strategic growth in key global markets across Europe and the Middle East, while pushing forward with the expansion of the carbon careful initiative. Oliver Clements will become managing director, with responsibility for the overall business operations.

Succession planning for FUTURE Designs began five years ago, with the creation of the Employee Ownership

Trust. This was initiated for the long-term benefit of all employees and the continued legacy of the organisation. Since then, there has been a focused strategy to develop and strengthen the senior management team, alongside significant investment to increase the expertise and skill sets in the business.

After nine years in Farringdon, the business has relocated its design and technology centre to Soho. This major investment increases its presence and visibility, creating an industry hub for networking and knowledge sharing.

David Clements chairman of FUTURE Designs, comments:

'FUTURE Designs was created in 1991 and has organically grown to become one of the top-five privately owned lighting manufacturers in the UK. It is a business built on our enduring ability to meet the exacting needs of our clients.

'I am excited for the management team, led by Oliver, to create their own path for future success, building on the strong foundations of FUTURE Designs.

'We have remained at the forefront of innovation in this sector and there is much to be excited about as we strive to always deliver the best product and outcomes for our valued customers.'

Oliver Clements, managing director of FUTURE Designs, says:

'The foundations for business growth have been set for many years. My role is to maintain our strong legacy and ensure even greater success for the future. Continuity of business is paramount and I look forward to increasing and developing FUTURE Designs with my co-directors – Leon Ellis, technical director, and Paul Noad, operations director – alongside our senior management team.

'The wider marketplace is continually evolving and I remain as dedicated to our customers as ever, ensuring that the latest innovations and technologies are integrated into manufacturing processes and product development.

'The rigorous attention to detail to guarantee quality at every level, with an exemplary service in delivery and after-care, will always be a hallmark of the business.' ●



The carbon careful initiative has been developed by FUTURE Designs, a pioneer in the refurbishment and upgrading of existing luminaires and carcasses. The initiative is designed to refurbish redundant luminaires with the latest LED technology, transforming them into highly efficient and carbon-saving solutions.

FUTURE Designs is always at the forefront of any technological breakthrough, and is renowned for its expertise in this area of lighting science. It has proven to be the expert in adapting old fluorescent lighting to state-of-the-art lighting, ensuring that the benefits from reduced impact on the environment are fully realised.

FUTURE

Designs

futuredesigns.co.uk