



WELCOME

This season we take a look at some of the most uncomplicated ways LED Light Sheet can be used to add light to a room. From a manor house kitchen counter top to the illumination of artwork at St Luke's Hospital in Bradford, these projects illustrate just how easy it is to use LED Light Sheet for individual or small-scale installations.

For our newly launched LED profile range Aura Linear, brochures are now ready to download on our product website. A brochure covering the full collection can be found on the resources page whilst individual profile pdfs and mounting guides are available on product pages.

And finally, our main announcement this season regards the launch of a new internal wiring system, Connect. With stylish white wires and a flexible series of connectors, Connect will become the standard wiring solution supplied with all non-IP67 rated Applelec lighting products including LED Light Sheet, Aura Linear, LED Sabre Light and our bespoke LED ribbon lights such as LED Light Reel.

The Applelec Lighting Team



LED profiles from Applelec



LED LIGHT SHEET

A product from Applelec



INTRODUCING CONNECT

The new wiring system for internal
LED Light Sheet and Aura Linear projects.



Connect is a small, power-to-luminaire system which delivers a compact, easy-to-install and interconnecting wiring solution. The system can be used for simple or complex wiring solutions and features a range of white wires and component parts that connect and disconnect with ease. Robust yet incredibly slim, the standard 7.5mm male connector can easily fit through an 8mm opening compared to other connectors which require much larger spaces.



Each Applelec product, including LED Light Sheet and Aura Linear profiles, wired with the Connect system feature a 300mm lead fitted with a male connector. A 1200mm lead with a female connector extends to a power supply or is supplied with a bare-end wire to create a standard wire length of 1500mm. Extension wires in a choice of 500mm, 1000mm, 1500mm and 2000mm lengths can be added between the product and its power supply to a maximum length of 5000mm (up to 5A). All cables are BASEC and UKAS approved.

An inventive selection of splitters ensures the Connect wiring system is highly flexible and these include a T-splitter, 2-way connector and 6-way connector. The versatile T-Splitter can be attached to any wire, anywhere in the system (subject to calculated power travelling to existing wired lighting units) to create a 'branch' which feeds a newly added lighting unit.

Using a simple plug-and-play principle, Connect from Applelec is easy to use, install and adjust.

KEY FEATURES

- White cables and connectors
- Compact 7.5mm male connector; fits through 8mm opening
- 5000mm lengths possible in one wiring run
- T-Splitter, 2-way connector and 6-way connector
- 3 year warranty



ST LUKE'S HOSPITAL, BRADFORD

Light, colour and visual themes aid dementia friendly way-finding at Bradford hospital

A new way-finding system at St. Luke's Hospital, Bradford uses light, colour, shapes and repeated motifs on the theme of 'Yorkshire at its Best' to enhance orientation for people who live with dementia. Work by a team of designers, including lead artist Stella Corrall, plays a fundamental role in creating a welcoming hospital environment whilst bringing beauty into the corridor spaces and aiding way-finding. The £513,000 scheme was funded by the Department of Health with arts in healthcare organisation LIME ART part of a multidisciplinary project team led by Bradford NHS Foundation Trust staff.

Eight department entrances across two floors of the hospital's Horton Wing were renovated in the process with a different theme relating to Yorkshire life developed for each area. The coordinated use of lighting, wall colour, distinct shapes and artwork themes gives each department an individual identity and works together with a simplified signage system to add a visually intuitive aid to way-finding. Considering

orientation from a fresh perspective, Applelec's LED Light Sheet was selected to illuminate artworks at department entrances and highlight visitor routes.

Providing a slim design which fitted easily into wall mounted frames, Stella Corrall used LED Light Sheet to backlight her bespoke plastic sheet artworks which are created from scratch being coloured and manipulated using techniques such as hairpin crochet. Positioned at department entrances, the lit artworks help with way-finding and are designed to balance with the specially designed internally-lit area number signs suspended from the ceiling.

Stella Corrall said: 'The development of the simplified signage ultimately led to my wanting to use Applelec's LED Light Sheet, to enable me to create beautifully simple statement pieces. In one installation which is based on the theme of water, reflections and ripples, the translucency of my sheet artwork is highlighted in the lit entrance frame. We wanted to create an

overall immersive style, so that the user is completely at ease throughout their visit, remembering foremost we want to ease anxiety, frustration and confusion.'

Much attention was paid to the development of a flow of colour which graduates along linking glazed corridors from one department to the next. Here, printed graphics applied to the corridor glazing encourages the use of gardens that were redeveloped as part of the wider project. Natural light is harnessed with these thematic window graphics which throws coloured light into the corridors, increasing the visibility and use of colour in the overall scheme. Lifts and stairwells between the two developed floors were included in the journey with Stella additionally designing the external Horton Wing entrance sign so that the narrative started from the outset.



SPECIFICATION NOTES

- Welcoming environment
- Intuitive way-finding using light
- Shaped illuminated artworks
- Natural light harnessed



TELSCOMBE MANOR HOUSE



LED Light Sheet has been selected by Lighting Force to illuminate a kitchen island for the extensive refurbishment of Telscombe Manor House.

The Grade II listed manor house in the village of Telscombe, East Sussex is owned by English Heritage and was first recorded

as early as the 10th century. The manor house is now leased as a private dwelling and has recently undergone a programme of modernisation with lighting design throughout the house by Lighting Force.

Ian Howard of Lighting Force explains: 'As with all buildings of this age, the introduction of lighting has to be done in a way which is mindful of how it can be

used to enhance existing features. Difficulty working with older wiring systems meant LED Light Sheet, which was created with plug-and-play connectors, was easily integrated into the island counter top.'

The island features a recycled glass bottle surface, in Arctic White from Bottle Alley Glass, with an IP67 rated LED Light Sheet panel positioned behind the glass to provide even illumination. In addition to lighting the island counter top, LED Light Sheet contributes ambient light to the space, where access for lighting points was limited.

Applelec managing director, Ian Drinkwater, said: 'Using LED Light Sheet for kitchen splash backs and counter tops is one of the simplest and most effective ways to use the product in interior installations. Illuminating decorative surfaces such as glass, onyx or other types of stone with the light panels enhances the detail and texture of these materials.'

Other features of Lighting Force's design included amber halo illumination behind family photographs, custom glass ceiling luminaires to the dining room and suspended glass lamp clusters to the entrance hall.

CATCH THE SUN



Creating a more energy conscious workplace, solar panels have been installed at our Bradford and Leeds factories in order to reduce energy costs and the company's carbon footprint.

The solar PV panels were installed by G&H Sustainability as part of the UK Government's Feed-In Tariffs scheme (FITs). 33 roof mounted solar panels have been installed at Applelec's Bradford headquarters and 120 panels in Leeds with the amount of CO2 emissions avoided expected to be 6049kg in Bradford and 21,420kg in Leeds per annum. Ian Drinkwater said: 'As well as saving

Applelec money on our energy use, the two factories boast a total saving of 27,469kg of carbon annually. This is roughly the equivalent of burning 108,184 pounds of coal with the avoidance of CO2 emissions that result from burning fossil fuels.'

The solar panel performance across Applelec's two plants is easily monitored online by Solar-Log. Solar loggers installed at both factories show that on a sunny day, when panels will be generating energy at peak performance, the Bradford plant can generate 8.25kWp whereas the larger plant in Leeds generates a maximum of 29.97kWp.



LAURA COOK PROMOTED TO LIGHTING SALES MANAGER

Following exceptional progress since joining Applelec four years ago, Laura Cook has been promoted to the newly created role of lighting sales manager. Laura splits senior sales responsibilities with her role as Applelec's in-house graphic designer where her creative background is put to good use in support of projects involving Applelec light products.

LED Light Sheet: construction notes at a glance

LED colour temperatures:
2700K, 3000K, 3700K, 4100K, 5300K,
6500K

Colour-changing LEDs:
RGB with pre-programmable options

Sheet thickness with white LEDs:
6mm or 8mm (4mm by request)

Sheet thickness with RGB LEDs:
10mm

Ingress protection:
IP54 or IP67

Maximum dimensions:
1500mm x 3000mm

Grid etching dimensions:
1.4mm, 2.8mm, 5.6mm, bespoke

Forward current:
12V DC

Controllable/Dimmable:
0-10V, Dali, DMX, Lutron

90 CRI LEDs:
In 3100K, 4100K, 5200K



The Aura Linear online gallery is now live



To show how various profiles in the Aura Linear range are designed to look in situ, a selection of illustrations have recently been added to the product website. Please visit the gallery area of the Aura Linear website to see these stylish application ideas.

www.auralinear.co.uk



BE INSPIRED WITH OUR PRODUCT WEBSITES

www.ledlightsheet.co.uk
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Please contact our technical advisors to
discuss your project requirements

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