Further, brighter, longer

With a nod to the stunning LED lighting used at the London 2012 Olympic stadium, Spanlite has surged ahead with the development and application of LED technology and with Polylite, our patented edge-lighting system. Polylite is widely specified to illuminate feature walls, reception desks, display graphics and much more.

This expanding British company has now gone global. We have our own offices in North America to satisfy the demand for Polylite and to push with the marketing of other products, including a super-slim, Polylite LED ceiling luminaire; and Similux – a toughened glass alternative to expensive natural onyx or marble finishes.

When Similux is back-lit with Polylite, the effect is marvellous.

Have a look in this brochure to see what we do, how we do it, and how we may help you. From dynamic feature walls to emergency lighting to illuminated signage, find out how Spanlite can help make light work for you.
Extreme edge-lighting

There are a number of different LED edge-lighting products out there, but none like Polylite. Spanlite have developed a patented technology that takes edge-lighting to new levels. Polylite will comfortably light up to 2.7m in height, evenly, using just a single row of LEDs. Using two light sources, it can comfortably light 3.5m, or from floor to ceiling.

This spread of light is achieved by first applying a bespoke matrix to one side of a ‘light-sheet’ panel. Light shone into the edge of the panel refracts when it hits the matrix, and is sent back out through the front face. The matrix is custom-calibrated for every application to create an illuminated panel of evenly spread brightness.

Polylite can be used to back-light any translucent material, such as decorative glass, graphic displays and, for higher-end applications, natural finishes such as onyx and marble.

Spanlite have recently improved the performance of Polylite by harnessing the latest production techniques. Now the result is even more resistant to the effects of UV radiation in sunlight – this means Polylite can be used to illuminate the facades of buildings in even the hottest parts of the world.

Using two rows of LEDs at opposite edges, Polylite can provide at least 3.5m of even illumination.

Edge-lighting from just one row of LEDs, Polylite creates up to 2.7m of even illumination.

Outdoor, indoor, as a feature and to illuminate – Polylite can be used in a variety of ways.
Illuminating natural exotic products such as onyx and marble comes with its own set of problems. That’s where Similux comes in.

Similux is a toughened glass laminate containing an image, suitable for backlighting with Polylite. The image can be anything: a photo, original artwork, a frit pattern, text, or a combination of these. We specialise in producing large format, high-resolution images of exotic marbles and onyxes, that simulate the natural product when encapsulated in toughened glass.

This technology solves a major problem for interior designers of large projects such as hotels: how to guarantee visual consistency across the whole project. Similux gives aesthetic control back to the designer, and substantial savings to the client.

Similux has numerous benefits:

- **Cost**: Significantly less expensive than natural marble or onyx.
- **Colour**: Retouch and colour-correct the image to desired effect.
- **Effect**: Flip the image to recreate effect of book-matched stone.
- **Size**: Many natural exotic finishes cannot be used at any great size due to delicacy – no issue with Similux.
- **Eco**: No depletion of natural resources.
- **Use**: Suitable for internal or external applications.

Main pic: an illuminated desk made with Polylite and Tanzanian Onyx Similux at the Taj Hotel’s shop in central London. Small pics: examples of Similux imagery.
All in the detail

It’s one thing to design a feature wall – it’s another to build and fit it. Or a bar front, or a surface mounted illuminated display, or colour-changing edge-lit glass balustrades.

We work closely with architects, designers and major contractors to ensure that everything goes smoothly. At www.spanlite.com you’ll find CAD drawings, data-sheets and everything needed to kick-start the process of integrating Spanlite’s products with your project.

Our dedicated team of fitters know our technology inside and out, so whether you want to fit out every bedroom in a hotel, or just one feature in a private house, we’ll make light work of it.

Polylite and Similux applications include:

**Feature walls** ... Polylite edge-lighting technology can illuminate any transparent material, or be used in combination with Similux.

**Reception fronts** ... Reception desks or bar fronts can be clad in Polylite and Similux panels.

**Lightbox displays** ... Inset or surface-mounted lightboxes using the latest LED technology.

**Lift cab panels** ... Enhance the walls and ceilings of lifts with Polylite-illuminated Similux.

**Balustrades** ... Edge-lit glass or polycarbonate powered with dynamic LED lighting.

**Signage** ... Super-slim illuminated signage. Can be double-sided and mounted on walls or ceilings.

LED lighting products include:

**Downlights, ceiling tiles, cove lighting, strip lighting, wall-wash battens, retail fixtures, emergency lighting.**

Examples of construction detail drawings for various projects.
Impact House, Croydon
The developers chose Spanlite’s new Skyline LED batten for the abseil lighting along the roofline and Spanlite’s Lightstick-1 LED system for the illumination of the scenic lifts.

St George’s Hospital, Tooting
Spanlite LED lit Polylite was specified in the main reception area, including vertical panels set in the walls and desk, and a constantly colour-changing Polylite feature wall behind the main reception desk.

500 Brook Drive, Reading
The Green Park business complex is now home to five floors of 3m high illuminated walls using a combination of Decoran reconstituted recycled glass and back-lit by Spanlite’s Polylite technology.

Westfield Centre, Shepherd’s Bush
Using printed glass edge-lit with white LEDs, Spanlite created an eye-catching feature wall covering more than 200m² over two floors in the Café Court.

Creswell Crags Museum, Welbeck
The Museum and Heritage Centre reception now features LED edge-lit Polylite glass to a design by Myfanwy Johns, depicting the contour lines of an Ordnance Survey map with just the white lines being illuminated.

Canterbury Cathedral, Kent
As restoration work continues on the Great West Window, some of the stained glass panels are being displayed in the crypt. For the first time in almost 800 years they can be seen close-up, in custom-built Polylite lightboxes.

Lo-Profile, Wardour Street, Soho
Polylite edge-lit panels set into the ceiling and walls have dramatically enhanced the ambience in Wardour Street’s flagship Lo-Profile night club in London’s Soho.

Cannon Bridge House, London
A feature light wall in the reception area comprises 44 Polylite glass louvre blades with DMX controlled colour-changing technology, plus general area lighting in the form of high power LEDs in a custom stainless steel trim.

MaasBrug, Venlo, Holland
Silhouette printed laminated Polylite glass was used for the 450m of LED edge-lit glass walkways along both sides of the restored Maas River crossing at Venlo, Holland.

Regent Place, Sydney, Australia
Polylite acrylic was used for the signage panels adjacent to the lifts on each floor level of the Regent Place development in Sydney, Australia.

World Showcase of British Design
Spanlite supplied the edge-lighting technology for the British Design Council’s ‘Great Expectations’ World Tour 50m-long table, showcasing British design.

PricewaterhouseCoopers HQ, Dublin
Spanlite built LED-lit panels and integrated them into 250 desks. All are DMX-controlled to change colour throughout the day and night to create a dynamic or relaxing working environment.
Freshfields, London
Cool white LEDs form a backlit array to illuminate the 'bamboo glass' feature wall in the basement gym of Freshfields Bruckhaus Deringer. Access to the LEDs is managed by means of a bespoke sliding mechanism.

BSkyB, London
Edge-lit glass forms the walls and doors to the four Sky Skills Studios at BSkyB’s head office in Isleworth, West London. Spanlite modified aluminium glazing channels to take the RGB-A (red, green, blue, amber) LEDs, which can be set to any colour.

Elevator panel – prototype
A 2 x 2.4m Similux panel adorns the inside of this elevator prototype, due to be installed at a major bank’s headquarters in the Middle East. The toughened glass Similux panel is lit with a corresponding panel of Polylite behind it.

Jalouse Nightclub, London
Similux panelling recreates the effect of backlit Honey Onyx at this exclusive Mayfair nightclub. The panels decorate the bar area and snake across the floor in other parts of the club.

Taj Hotel, London
Similux shelves with a Tanzanian Onyx effect enhance the display at the Taj Hotel’s shop in London. The toughened glass laminate shelves contain the onyx image, which is internally lit by strips of LEDs mounted on the wall within.

citizenM London Bankside
citizenM’s new boutique hotel near London Bridge is home to numerous bespoke LED lighting products from Spanlite. Each bedroom features dynamic RGB lighting in the bathroom ceilings, plus surface-mounted spotlights, fixed and adjustable downlights, and cove and mirror lighting in the bedrooms.
Spanlite’s illuminated feature wall in the reception at Cannon Place was built as part of the redeveloped Cannon Street Station site in the City of London.

The 1,200 sq ft Spanlite feature wall incorporates 90 Polylite panels, each edge-lit by two rows of Cree RGB-R LEDs. The Polylite panels provide the back-lighting for 90 slabs of Decoran recycled glass.

The 12,000 colour LEDs are addressed via a DMX signal, allowing each of the 90 panels to be individually controlled to produce spectacular lighting features on demand.

The lighting is programmable via the internet, giving the client freedom to update or change the lighting sequence with the minimum of effort, and from anywhere. It’s even possible to create text messages that display across the wall.
Applications for Spanlite’s Polylite, Similux and LED lighting products

We’ve developed comprehensive solutions to specific construction requirements across a range of LED applications. From colour-changing walls of light to energy-sensible signage, Spanlite’s products are suited to a whole range of applications.

To find out more, visit our website at www.spanlite.com. There you’ll find an interactive version of this drawing, with download links offering CAD drawings, data-sheets and further information to help you kick-start your project.

Key
- Feature wall
- Reception
- Escalator sides
- Balustrades
- Elevator
- Signage
- LED Lighting
- Illuminated wall
- Lightboxes
45 Park Lane

The magnificent 45 Park Lane hotel, part of the Dorchester Group, a luxury new 50-room hotel in the heart of London. The main photo shows it externally lit with Spanlite’s LED Lightstick Batten using warm white Nichia LEDs, and coloured amber with a bespoke filter.

Lightstick Batten is a modular LED product from Spanlite that can be used internally, or externally if IP-rated, and is particularly suited to illuminating the facades of buildings.

Spanlite designed, produced and installed the external lighting, along with the development and installation of the back-lit Calacatta Gold marble bathroom panels. These were made using Spanlite’s Similux technology – an image of the marble is encapsulated within a toughened glass laminate, and back-lit with Polylite, Spanlite’s patented edge-lighting system.
Getting it right

Being able to fully understand a client’s brief is just the first step. We look to build confidence at all stages of the design and manufacturing process, right through to taking care of the installation – our team of installers and fitters have grown with us and understand the importance of ‘getting it just right’.

Working closely with architects, designers and clients, Spanlite continues to develop good relationships and forge solid partnerships around the world. Attention to detail and a deep understanding of the project in hand has led to repeat business and happy customers.

“I’ve worked closely with Spanlite on a number of projects. Through their expert knowledge and commitment to detail they have realised my ambitions for the glass artworks I’ve created, adding exciting and dynamic dimensions to the work.”

Sarah Galloway
Glass Artist
www.sarahgallowayassociates.co.uk

Colour-changing Polylite panels illuminate Sarah Galloway’s glass artworks at the Women and Children’s Unit in Blackpool Victoria Hospital.
Sky Skills Studios

In May 2011, Spanlite were approached by David Atkinson Lighting Design (DALD), and asked to produce the edge-lit glazing for BSkyB’s new Sky Skills Studios at Sky’s main offices in Isleworth, West London.

The Sky Skills Studios consist of four fully functioning TV studios situated around a central area. The design and project management was led by RPM, Sky’s design and events agency in London; and Platform, a Brighton-based agency specialising in 3D space design. For the lighting, RPM brought in David Atkinson (DALD), who specified Spanlite as LED edge-lighting specialists to oversee the Studio glazing panels.

SOLUTIONS

Spanlite designed the LED lightstick accordingly, and adapted existing aluminium glazing channels to house the LEDs. The glass was printed with a white ceramic ink dot pattern, to highlight the colour near the edges of the glass, to depict the name of each Studio on the corresponding door, and to ensure DDA compliance.

The channels were finished with custom-produced black anodised aluminium cover plates to match the door handles. Control of the LEDs is managed via DMX – Spanlite having housed and linked all the LED drivers in the floor void.

Colour-changing illumination sequences across the glazing are synchronised with the welcome video to stunning effect. Each Studio can be colour-coded, or all the panels can be set to a particular colour, or they can be set to change colour at the touch of a button. The result is a dazzling success – a dynamic feature at the heart of the design aesthetic.

Each Studio is accessible from the central area, and can be viewed through two apertures. One has a fixed glass panel, and the other a glass door and adjacent glass panel. The brief was to create and fit edge-lit single-pane glazing for each panel including the doors, with the ability to change colours – specifically to match the background colours in Sky’s logo.

COLLABORATION

Working closely with RPM, Spanlite devised a solution and produced a working sample. This highlighted a colour issue – red light doesn’t travel well through glass, whereas blue and green light does.

This creates problems when trying to illuminate in yellow for example, using red and green LEDs together. The result is yellow near the light source, but green in the middle of the glass. Spanlite overcame this by adding an Amber LED to the Red, Green and Blue (RGB-A).

TEAM

Client ..................................................... BSkyB
Main Contractor ............................. Bovis Lend Lease
Main Fit-Out ................................. Fireclad
Lighting Design ............................... DALD
Edge-lit glass ............................... Spanlite
Signs of improvement

Illuminated signage is now revolutionised by Spanlite. A double-sided sign, lit on both faces from within by a Polylite panel, is now just 30mm thick. With excellent eco-credentials and significantly lower ‘whole-life cost’, switching from fluorescent signage makes more sense than ever.

Our signage is designed to be suspended, wall-mounted or free-standing, fulfilling the complete range of signage requirements for airports, other transport hubs, hospitals, shopping malls and other commercial applications.

And aside from the elegant design and reduced electricity costs, this unique signage solution’s real kicker is its near-zero maintenance requirement. With an expected life-span of nearly ten years, you won’t have to worry about replacing failing fluorescent tubes – ever again.
The light ahead

For decades we’ve had to make do with inefficient halogen and fluorescent lighting, which are both expensive to run and costly to maintain. Legislation will eventually force us into ditching inefficient lamps in favour of cost-efficient LED products, probably sooner than we all realise.

As electricity costs soar, the switch to LED lighting makes economic sense – the capital cost of LED lamps is soon recovered by the energy savings made. And it’s not just energy bills that’ll be reduced, our carbon footprint will be too. So LED replacement lighting couldn’t have come at a better time.

Spanlite’s LED downlights and edge-lit LED ceiling tiles combine elegant British design with high-quality workmanship, and use only top-brand components to provide a genuinely energy-sensible reason for switching away from non-LED lighting.

Spanlite’s range of LED lighting products includes a super-slim, Polylite ceiling tile. Also in the range are downlighters, spotlights, cove lighting and much more besides.
Spanlite on display

To see examples of our edge-lighting system for yourself, visit our permanent display at The Building Centre, Store Street, London WC1E 7BT.

Contact us directly or visit the website to see our latest projects and products and to find out how Spanlite can help with your lighting needs.