

Fibre Optic Lighting



THE INTERESTING PART IS WHAT YOU DON'T SEE

Using fibre optic lighting means the light source and electrical feed are separate from the fittings. Light from the generator is carried through an optical harness of Glass or PMMA fibre to multiple endpoints where it can then be shaped and controlled as desired. Once installed, the endpoints need never again be accessed so perfect for inaccessible locations.

- Wet Area lighting - humid spaces, above and in pools, spas and water features
- Architectural lighting - facades, towers and high level interiors
- Multi-point lighting from one source - Starry skies, large decorative schemes

The remote source removes heat from the end fitting - perfect for delicate and sensitive materials:

- Display and showcase lighting
- Hermetically sealed conservation cabinets
- Close proximity illumination of heat-sensitive objects such as books, artworks and fabrics
- Ice Bars and Sculptures

Light generators can be mounted in dry and well-ventilated places while endpoints are safe in harsher environments:

- Hot or humid areas such as saunas, steam rooms and hammams
- Coastal or saline environments

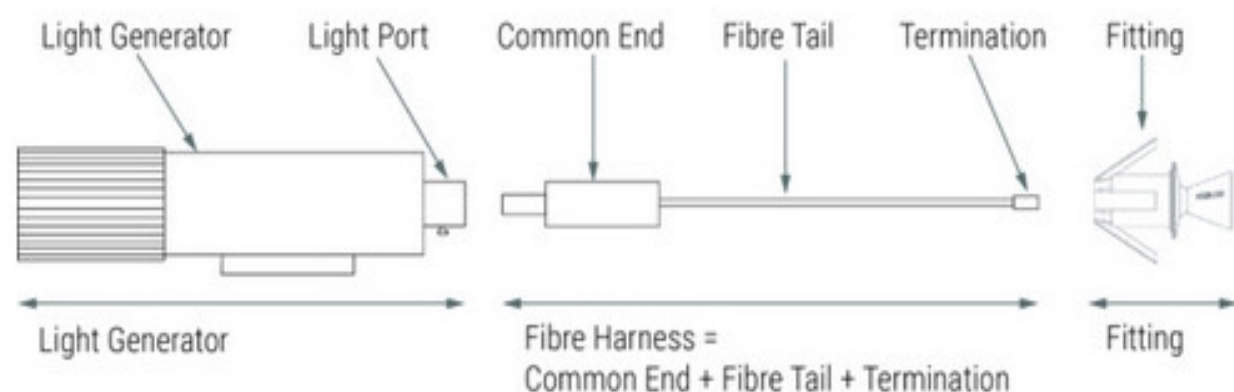


A FIBRE OPTIC LIGHTING SYSTEM COMPRISES THREE ELEMENTS:

- Light Generators
- Fibre Optic Harness
- Fibre Optic Luminaire or Fitting



TYPICAL CONFIGURATION



LED LIGHT GENERATORS FOR INTERIOR AND EXTERIOR SCHEMES

With major technological advances being made with LED fibre optic generators over recent years and owing to their patented three-lens system, Light Projects is proud to offer the most efficient solutions in the world. Driver options including 1-10V, DALI, DMX and Push dimming.

The light source enclosure is manufactured with a metal casing which houses the following components: LED light source, anti-UV and IR filter; a super quiet silenced fan and a power supply.

The purpose of a fibre optic illuminator is to generate the necessary light for the fibre optic cables which, when passing through each optical fibre, illuminates the tips of the beams to produce the desired effect.

The types of illuminators for optical fibers differ in light power produced, type of light produced (White or RGB) and lighting technology.



A further differentiation must be made on the type of light produced, which can be dynamic or static. The dynamic light illuminators allow for the adjustment of the colour temperature produced (between 2,200K and 4,000K) allowing for greater versatility of the desired lighting effects.

Most models are available with either DMX controlled colour or twinkle wheels, Bluetooth, Casambi and Zigbee controlled versions.

DESIGN - MARRYING THE FUNCTIONAL AND THE DECORATIVE

Our Fibre Optic range includes a large variety of elegant and beautifully functional recessed and surface mounted fittings for interior and exterior installations. Fixed, adjustable and tiltable formats with a wide selection of fixed, diffused and focus beam angles to project light with control and accuracy.

Fittings are designed for multiple uses to provide area lighting, to build into museum or retail cabinets and displays, shelving units and step lights.

ELEGANCE AND TECHNOLOGY

To complement the fibre optic range, Light Projects also offers an impressive collection of LED lighting fittings designed for museum, display and retail lighting applications.

The Innovative Ara features 2.2W, 115lm 3000K LEDs with user-replaceable 10°, 20°, 30° and 48×8° optics in fixed and tiltable downlights, along with 1.5W 95lm versions in spotlight and semi-recessed formats.

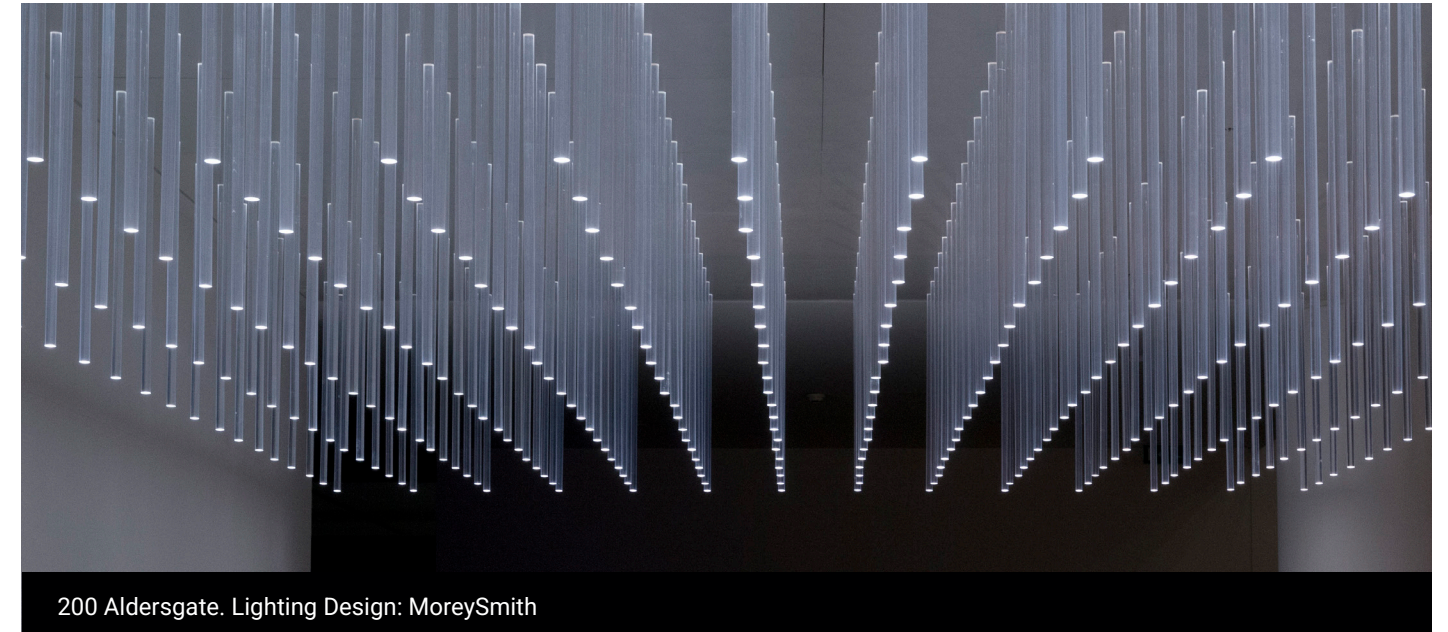
Ara 4 and Ara 5 brings ultimate flexibility with miniature adjustable spotlights magnetically mounted on a miniature 24V track with local dimming and a wealth of accessories. Spotlights can be moved and adjusted to suit any fast changing displays.

Built around 1W 50lm CRI 90+ LEDs and 16mm reflectors, the Pyxis and Corvus ranges elegantly provide fixed and adjustable semi-recessed fittings.

These are complemented by the Libra stem mounted spotlights with fully adjustable single, twin and triple heads. All feature replaceable 3,000K or 4,500K LEDs with interchangeable 30°, 45° or 60° reflectors. More information on the fittings available can be found at www.lightprojects.co.uk/fibre-optic.



EXAMPLES OF APPLICATIONS



200 Aldersgate. Lighting Design: MoreySmith



Nandos Restaurant. Lighting Design: Kate Wilkins



St Helen's Square. Lighting Design: Studio Fractal

FLEXIBILITY AND IMAGINATION

As well as the conventional lighting fixtures illustrated above, fibre optics allow designers to place light wherever their imagination desires. For example, acrylic terminations to glow at the end of flexible rods, starry skies to create magical ceilings, embedded into the floor for enchanted pools or side-radiating fibres for soft light under floating seating.

All solutions come with the benefit of remote light sources.



Queen Mother Memorial. Sculptor: Paul Day

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