

# the light lab

## Company Profile

**the light lab**  
bright ideas

project credentials

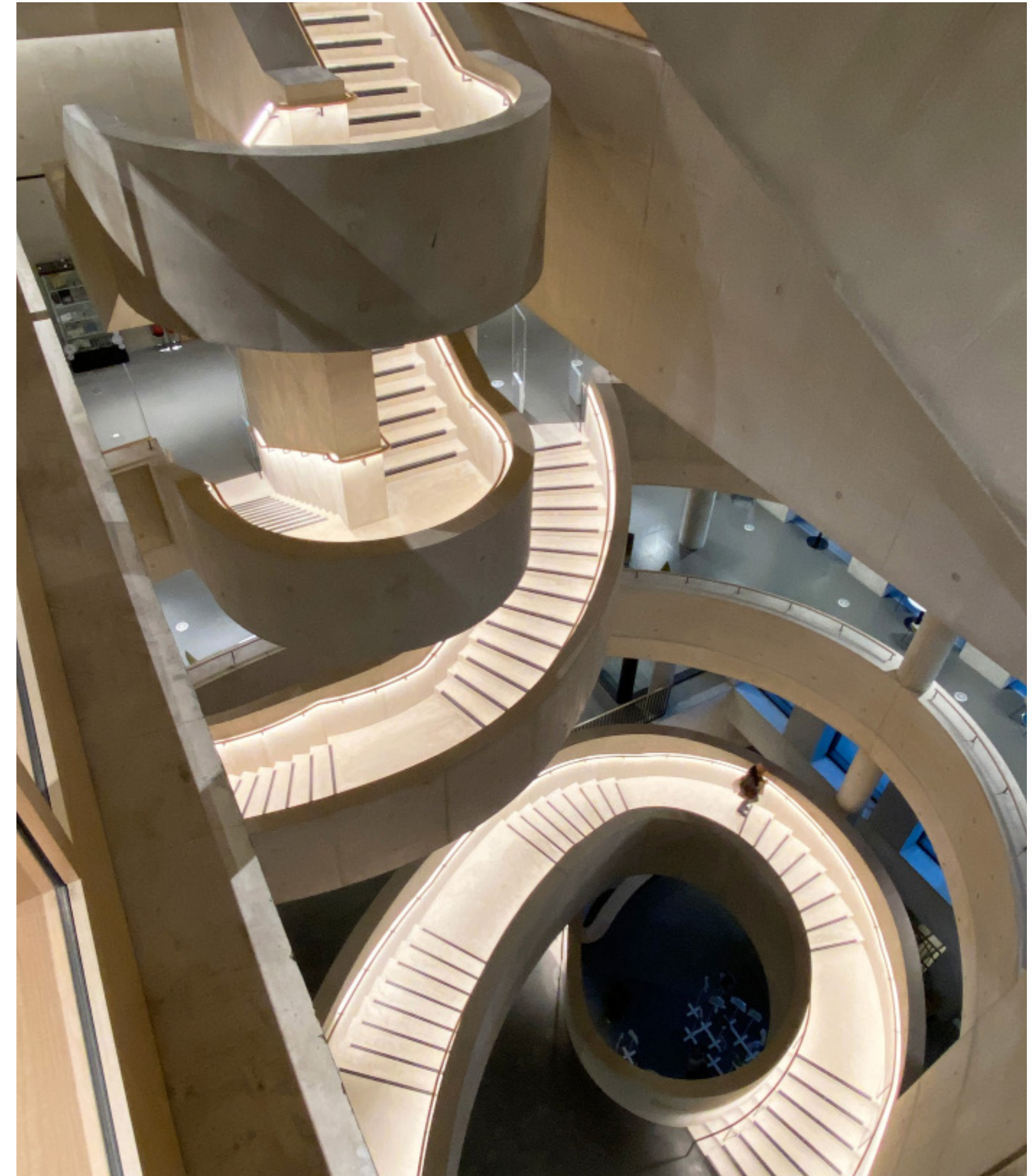




# company profile

Established in 2002, The Light Lab has spent the past two decades bringing together combined experience in lighting integration, new lighting technology and project management to deliver high-end architectural lighting installations.

Based in London, The Light Lab has worked on many of the capital's landmark buildings, and has a strong national and increasingly international presence.







# our approach

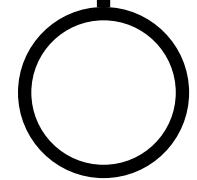
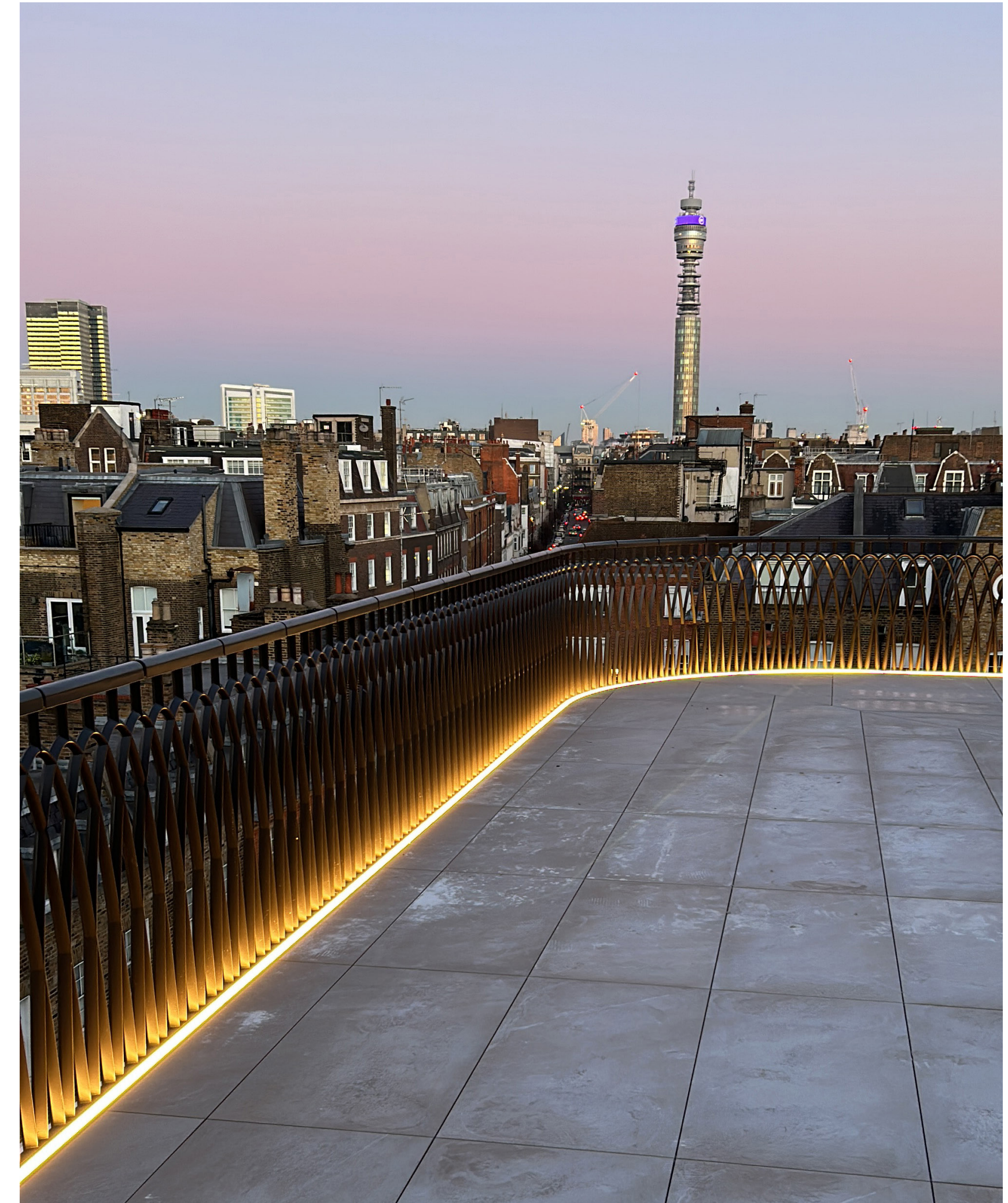
We believe that lighting should be an integral part of the building design and we therefore encourage creating bespoke project-specific solutions rather than compromising around existing lighting products.

We are about collectively finding solutions to overcome the challenges and complexities that come with bespoke lighting installations, we often only deliver a feature once, so it has to be right first time.

This allows lighting elements to be as discrete as possible whilst maximizing their visual impact and achieving designers' ambitions for the space and environment.

We focus our efforts on providing bespoke lighting solutions and installation. Alongside this we offer a range of specialist lighting products, offering them in tailored sizes to suit the needs of each project.

All designed and manufactured to the highest standards, in the UK.







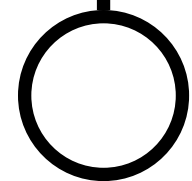
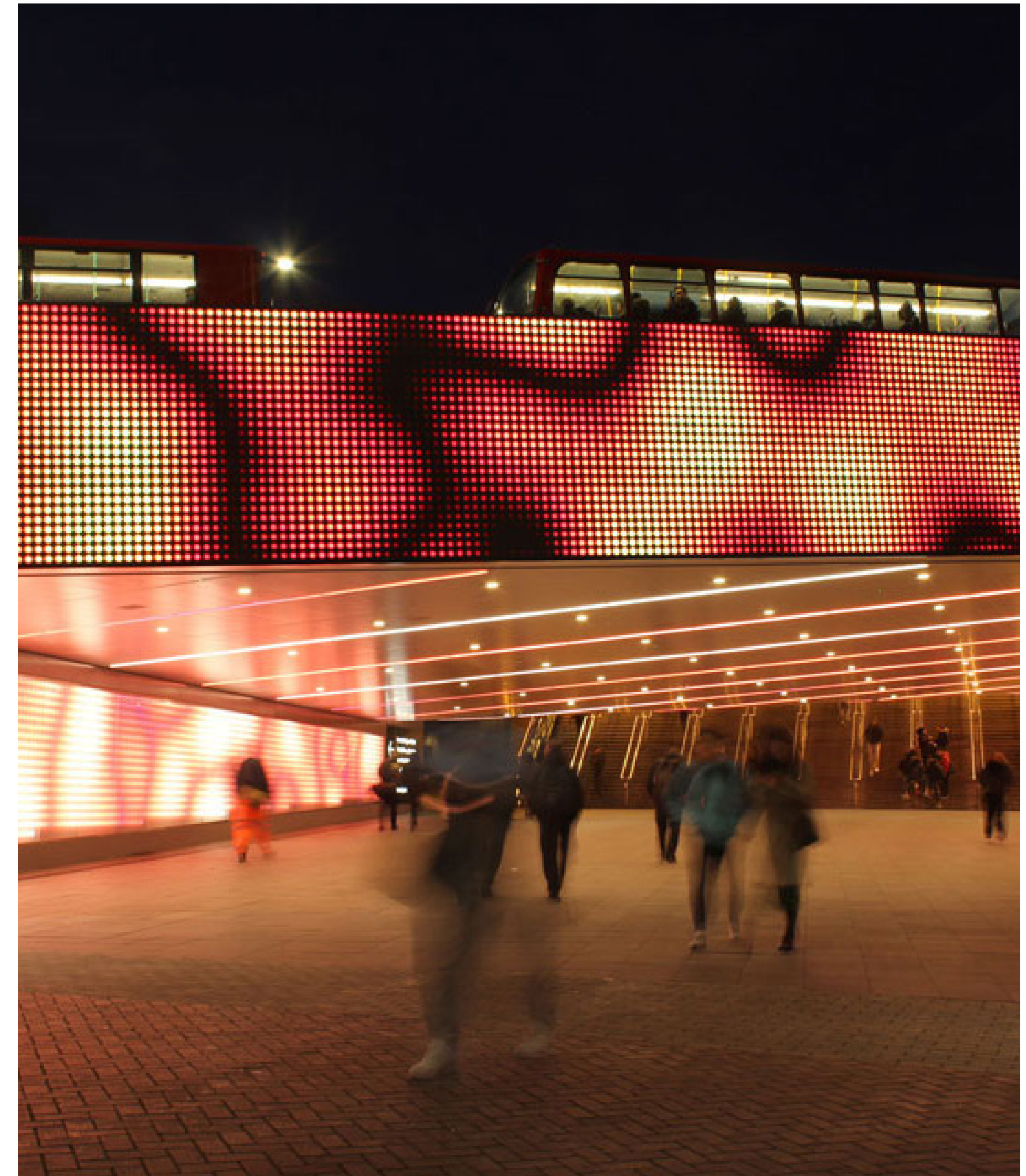
# company ethos

The quality of what we deliver at The Light Lab is crucially important to us, equally important is how we deliver it, therefore our company ethos plays a core role in all aspects of our business.

*'how' is as important as 'what'*

- Dedication to high quality and great design
- Commitment to working collaboratively to deliver the best possible project outcomes.
- Reliable 'safe hands' to take full responsibility for project delivery from concept brief to installation and beyond.
- A team that actively create a working environment that fosters positive and transparent working relationships and strong partnerships.
- An approach to work that delivers projects on time and with a relaxed but highly professional manner.

The company ethos defines how we work and is therefore fundamental to our project delivery. We're not attempting to sell a stand-alone 'product' or an isolated 'service' we develop new business by building close working relationships and developing strong working partnerships to deliver the best possible outcomes







# project process

## design Integration

We provide innovative solutions to realise the design concept. We operate across all sectors involving architectural lighting, producing CAD design and schematics, whilst managing supply of products to ensure design integrity is met.



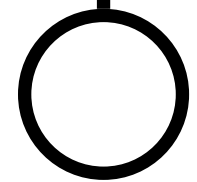
## manufacture

The Light Lab have expertise in all areas of lighting manufacturing and fabrication, producing all finished products in the UK from high quality materials and components.



## installation

We provide a skilled team of trained engineers for glass, metal and electrical elements, offering project management support throughout the whole process.







Case Studies





# Penn Station, New York

Bespoke spectraglass fins



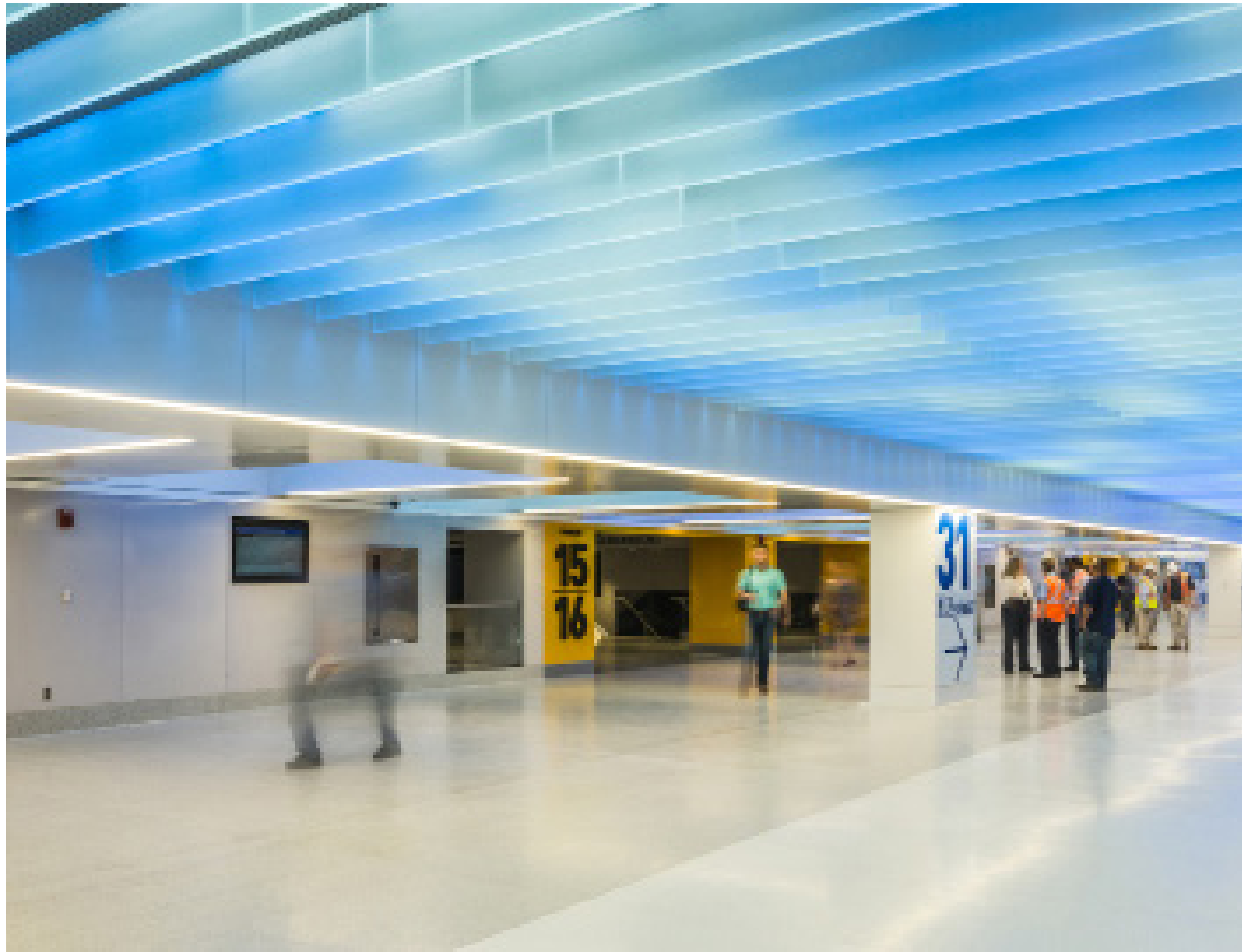
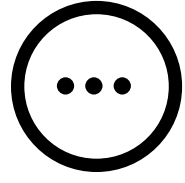
Architect	Skidmore, Owings & Merrill LLP (SOM)
Light Design	The Light Lab / Light Art: Tiller Studio
Products	Spectraglass
Services	Specialist lighting manufacture & installation

**Skyscape is a bespoke light art installation, spanning the length of the ceiling at the new west end concourse of the Moynihan Train Hall, Penn Station, New York City. Designed by Skidmore, Owings & Merrill LLP (SOM) for client Moynihan Station Development Corporation, with lighting design & manufacture by The Light Lab, in collaboration with Tiller Studio.**

[View here.](#)

The project contractor Skanska & and electrical contractor Welsbach, commissioned bespoke lighting manufacturers The Light Lab to work on the design and build of this 'digital sky', using their bespoke edge lit glass product Spectraglass. The Light Lab designed & manufactured an easy-fit support structure and LED glass fins to fill the expanse of the 15'x300' ft ceiling. The brief included making all the services above the fins easily accessible, so the design mounted the fins on easy slide carriages on precision rails. The 2,000 pixels of RGBW LED light, softened through the glass, gives a gentle, calming sense of space in an otherwise confined and overcrowded space and has been very well received by the harassed commuters, as they wait for the full redevelopment of the station. They called on the services of Studio miriamandtom to create 'Skyscape', an animated and voluminous sky scene that drifts across the ceiling, whose deft touch gives the piece its true class.









# Kings Cross Tunnel

Bespoke LED integrated art wall



Architect

Allies & Morrison

Light Design

Speirs & Major / Tiller Studio

Products

Bespoke back lit panels

Services

Specialist lighting manufacture & installation

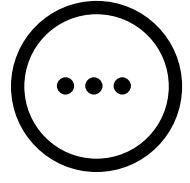
**The Kings Cross Tunnel has been designed & built by Allies & Morrison architects & BAM Construction, to form a link between Kings Cross & St Pancras stations; a route which 100,000 people take per day. The light wall is the main focus of the tunnel, located on the outside of the curve, measuring nearly 100m long.**

[View here.](#)

The Light Lab designed, manufactured & installed the seamlessly jointed glass wall, back-lit with LEDs capable of emitting the full RGB spectrum & a white light spectrum from 3.0K to 6.0K. This provides a continuous curved appearance, with no shadow lines throughout.

The art wall concept was originally conceived by Speirs & Major, with the artwork created by miriamandtom. Creating lighting in stunning muted pastels, so that the feeling of walking through the tunnel is not a harsh, neon experience, but rather works very subtly alongside the pedestrian, to create a soothing, relaxing journey.









# London College of Fashion

bespoke LED handrail - timber finish



Architect  
Light Design  
Products  
Services

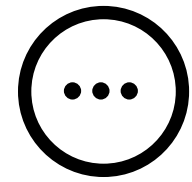
Allies & Morrison  
Buro Happold  
**Glowrail**  
specialist lighting manufacture & installation

**The Light Lab contributed bespoke lighting to the relocation of London College of Fashion, University of the Arts London, to its state-of-the-art, purpose built site at Queen Elizabeth Olympic Park on the Stratford Waterfront. Allies and Morrison & Buro Happold specified our expertise to fabricate our bespoke LED handrail fitting ‘Glowrail’ in a custom timber finish, spanning 15 stories throughout the new building.**

Internally, Buro Happold’s structural team devised innovative solutions for the complex spaces radiating from the central atrium and circulation space, known as the ‘Heart’. One such solution was the ‘Heart Wall,’ a concrete frame comprising columns and beams that establishes a boundary between the central core and surrounding workshop spaces.

This structure provides primary stability while retaining flexibility in space utilization and service provision.

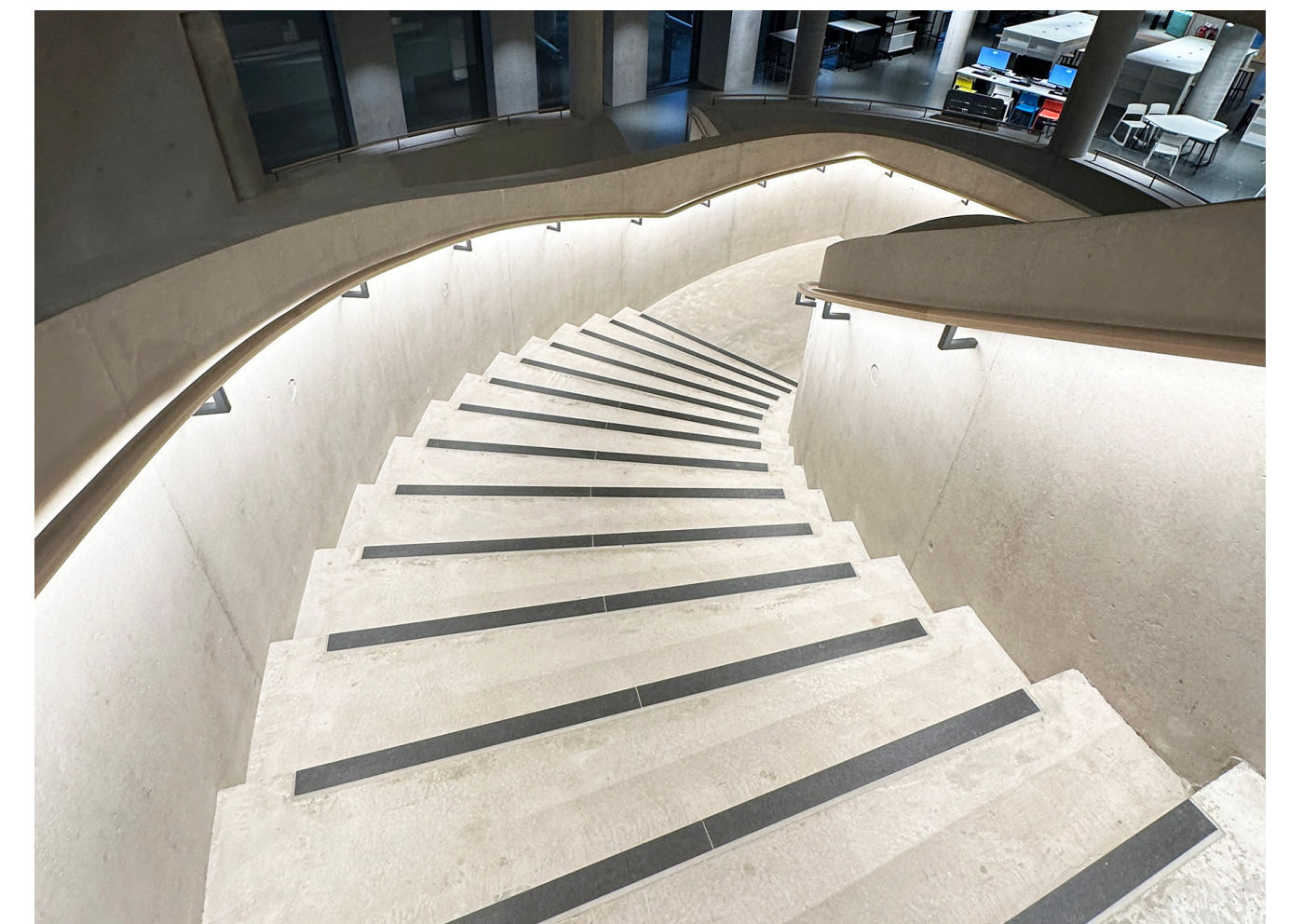
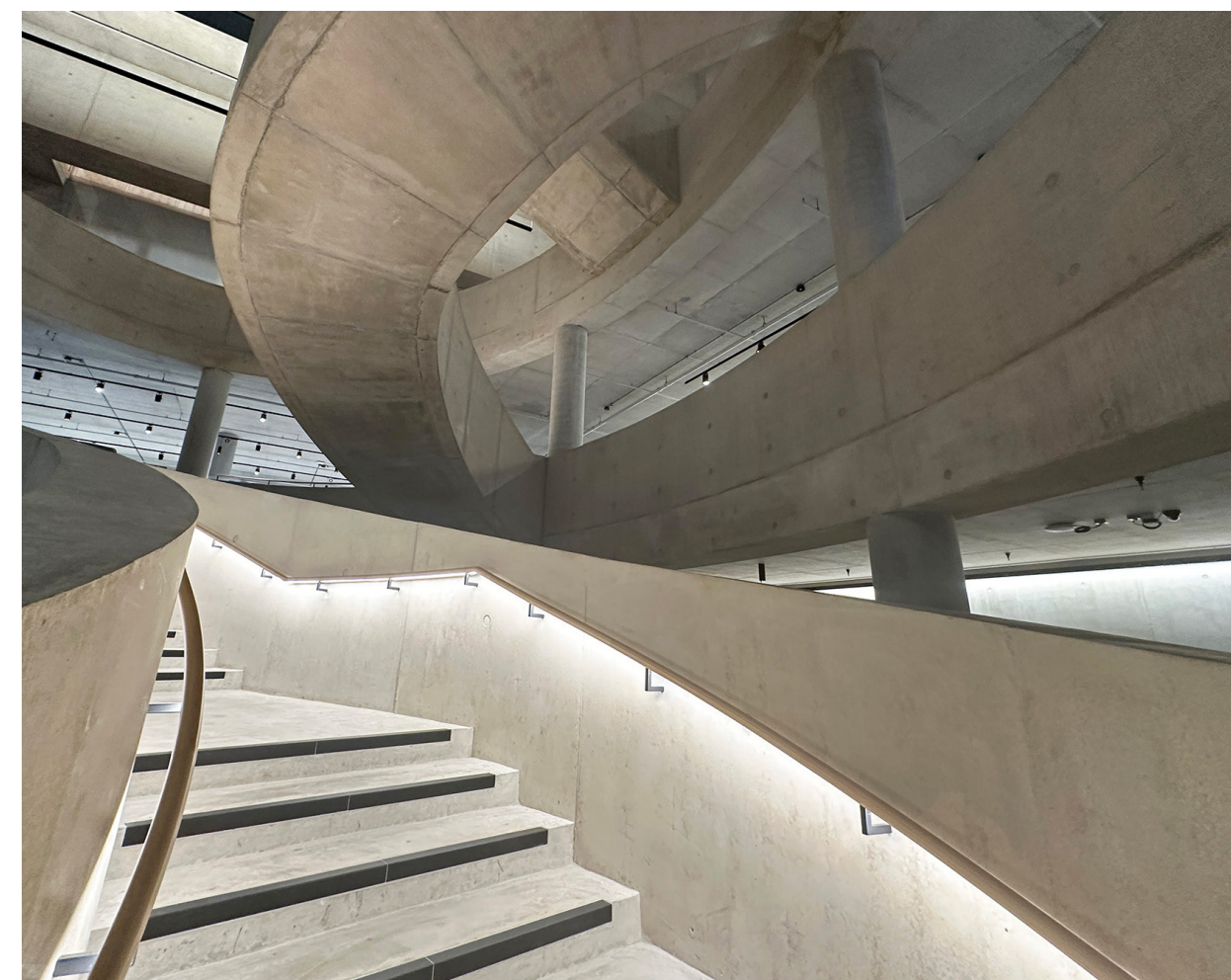
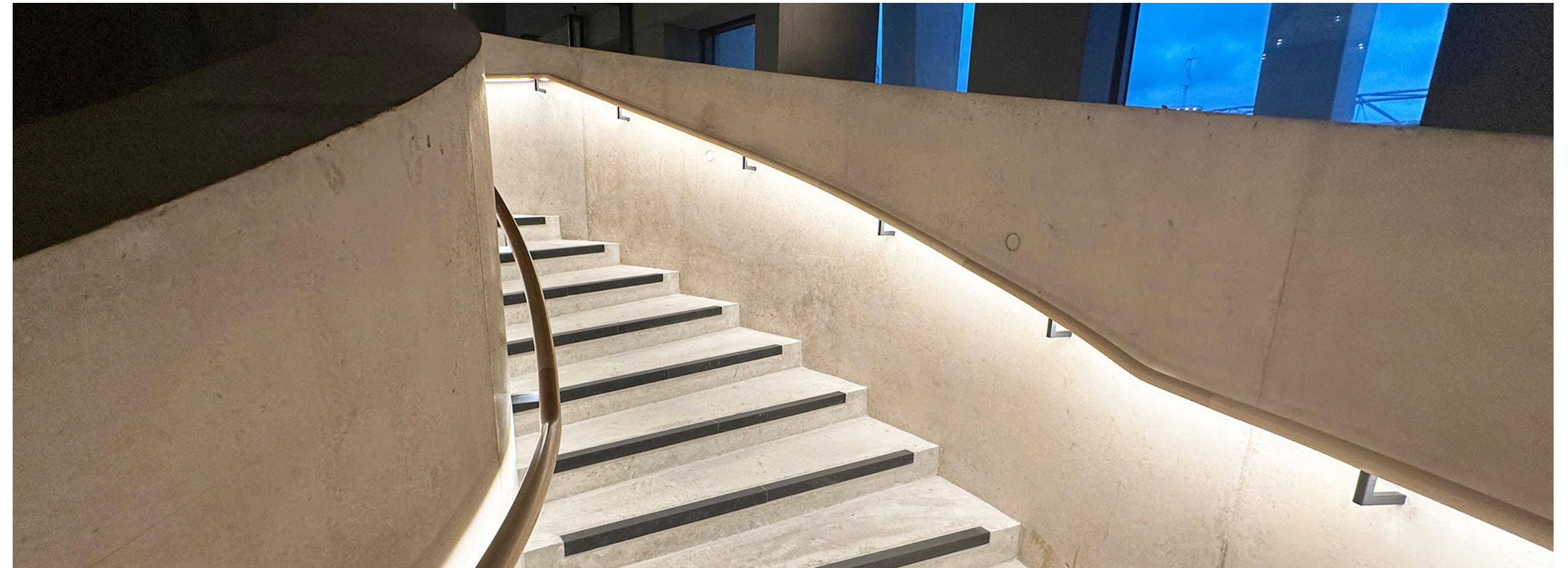




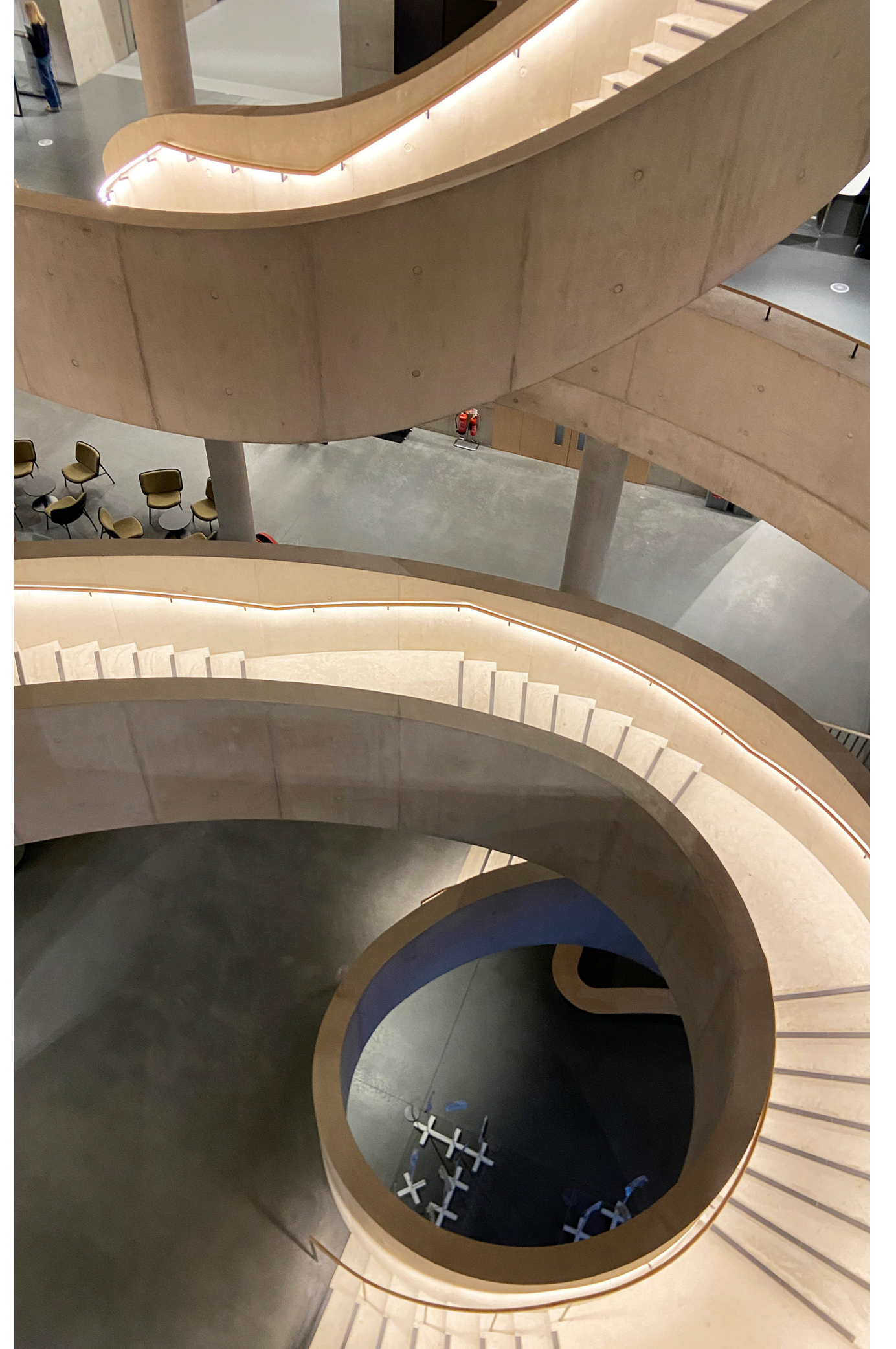
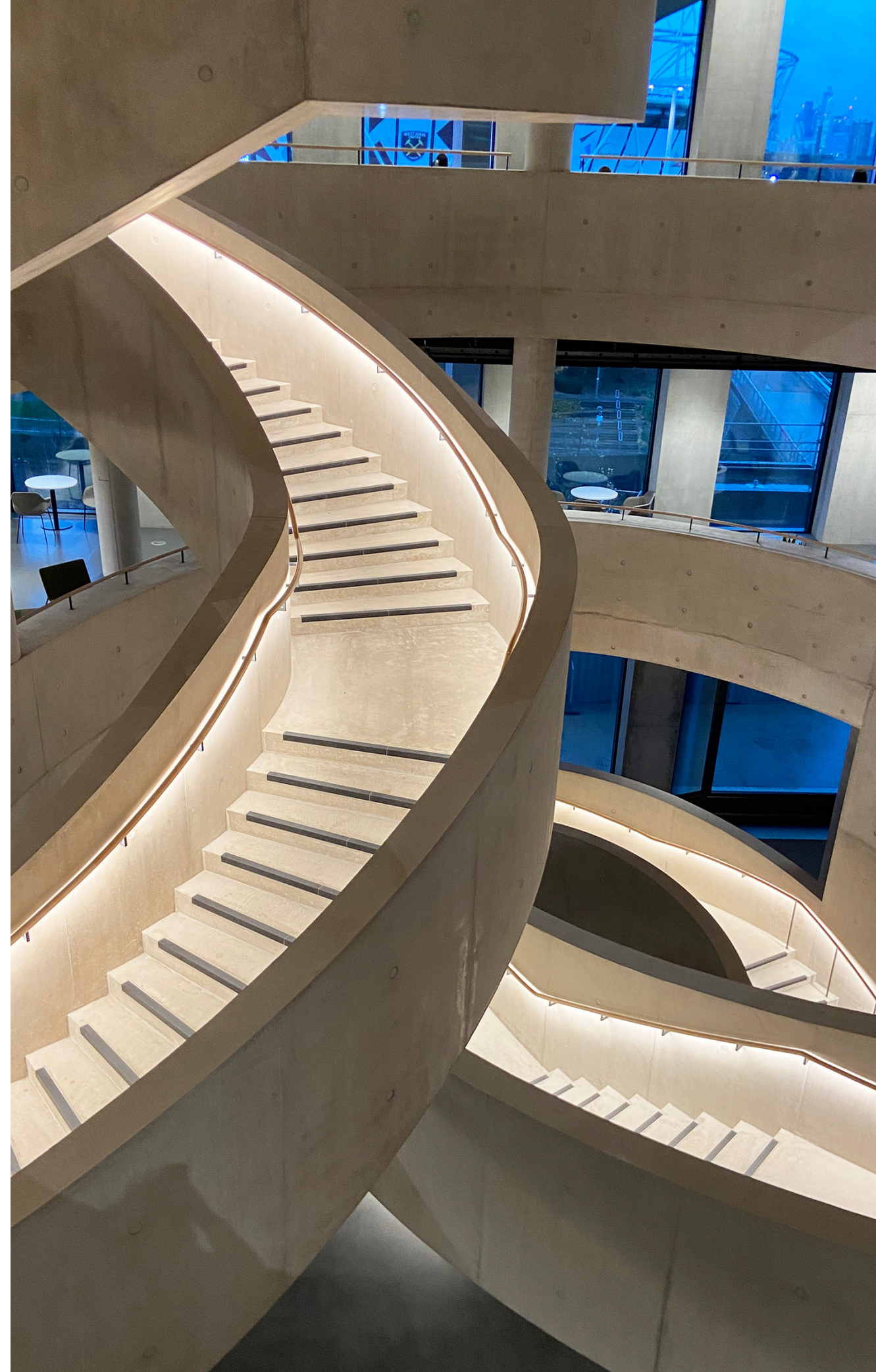
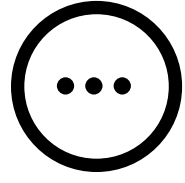
Our specialist team manufactured and installed over 430m of custom timber LED handrail, incorporating helical, curved, and straight sections, seamlessly integrating with the sweeping concrete 'heart wall' stair and adjoining black steel staircases; wall mounted with custom black powder coated steel brackets.

Mastering an unfinished surface presents a unique design challenge, as production director Marcus Cave describes; **“Fixing to a concrete surface demands complete precision, as there’s no room for touch-ups.**

To address this, our team devised a bespoke fixing method, which involved casting a spigot into pre-drilled holes in the concrete and attaching our bracket directly — so accuracy was key! The team did a fantastic job, delivering this perfectly on a hugely impressive build. Sincere thanks to Buro Happold for the opportunity with our Glowrail product. We’re thrilled with the result!”











# David Oluwale Memorial Bridge

Bespoke Spectraglass panels



Engineer

Bam Nuttall

Light Design

The Light Lab

Products

Spectraglass

Services

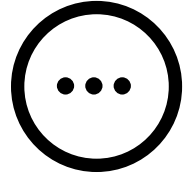
Bespoke lighting manufacture & installation

**The project is a partnership between the David Oluwale Memorial Association (DOMA) and Leeds City Council, with our specialist team brought onboard by BAM Nuttall & Mott Macdonald, to manufacture and install the bespoke low iron, toughened Spectraglass panels, with SGP laminate structure inter-layer. The bridge is approximately 28 metres long, with each of the 16 panels measuring 1.5m ; making it one of our largest external Spectraglass projects to date.**

[View here.](#)

Each of the 16 Spectraglass panels feature a bespoke screen print design , to create the desired design intent of an owl flying across the bridge This is achieved by using high output SPI LEDs, controllable at 125mm increments to create the movement of the light and therefore the flight of the owl, with all lighting programming by long term collaborators Architainment.









# Case of Bobby Moore Bridge, Wembley

Bespoke public realm lighting



Architect	Dixon Jones
Light Design	Speirs & Major / Light Art: Studio Tiller
Products	Bespoke
Services	Bespoke design & build main contractor / specialist installation

← London Designer Outlet  
 The SSE Arena, Wemb  
 Wembley Stadium  
 Brent Civic Centre  
 Boxpark Wembley  
 Wembley Park Theat

**Property developers Quintain have launched the refurbished Bobby Moore Bridge pedestrian underpass at Wembley Park; a project which saw The Light Lab take on full management, fabrication and installation responsibilities, as bespoke design and build main contractor.**

**Initial concept for the project came from the team at Dixon Jones Architects, with lighting design by Speirs + Major and light art by Tiller Studio.**

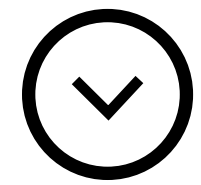
[View Here](#)

Edward Jones from Dixon Jones Architect describes how their design concept was to transform Bobby Moore Bridge from a neglected and routine piece of civil engineering into a ‘glittering Proscenium leading to the wonders of Wembley.’

“For those arriving at Wembley Park Station a first impression is of the great vista seen in perspective above the BMB leading via the lighting columns of Olympic Way to the Colossus of the Stadium beyond. Then having navigated the steps down to concourse level the bridge acts as a threshold. The dramatic lighting of its enclosing walls and ceiling prepare visitors for the spectacle of the forthcoming sporting event as well as finding a place for the recovered tiled mural, unveiled by Mrs Moore in honour of her husband in 1993, from which the bridge takes its name.”

In addition a section of the heritage tiles have been renovated and illuminated in the centre of the Est wall to celebrate the history of Wembley and Bobby Moore – the plaque in dedication to him being the centre piece.





# Bobby Moore Bridge

In addition to site managing the whole project, The Light Lab designed and manufactured the bespoke fittings, also fabricating a new ceiling, wall glazing and supporting metalwork; leading a team of specialist installers to complete the 14 week schedule.

[View timelapse video of the construction.](#)

SPI individually controlled multi-led pixels provide the wall lighting behind acid etched, toughened laminated glass with a SentryGlas interlayer – ensuring a safe and robust cladding and a calming environment, in an area subject to post-match crowding as fans queue to get into the station.

Within the ceiling Glowline, linear LEDs also SPI controlled, link the two walls - completing the “crossover” effect.

In addition, a section of the heritage tiles have been renovated and illuminated in the centre of the East wall, to celebrate the history of Wembley and Bobby Moore – the plaque in dedication to him being the centre piece.

Emergency back-up, bespoke recessed downlights, provide ambient lighting to the area.

“

”

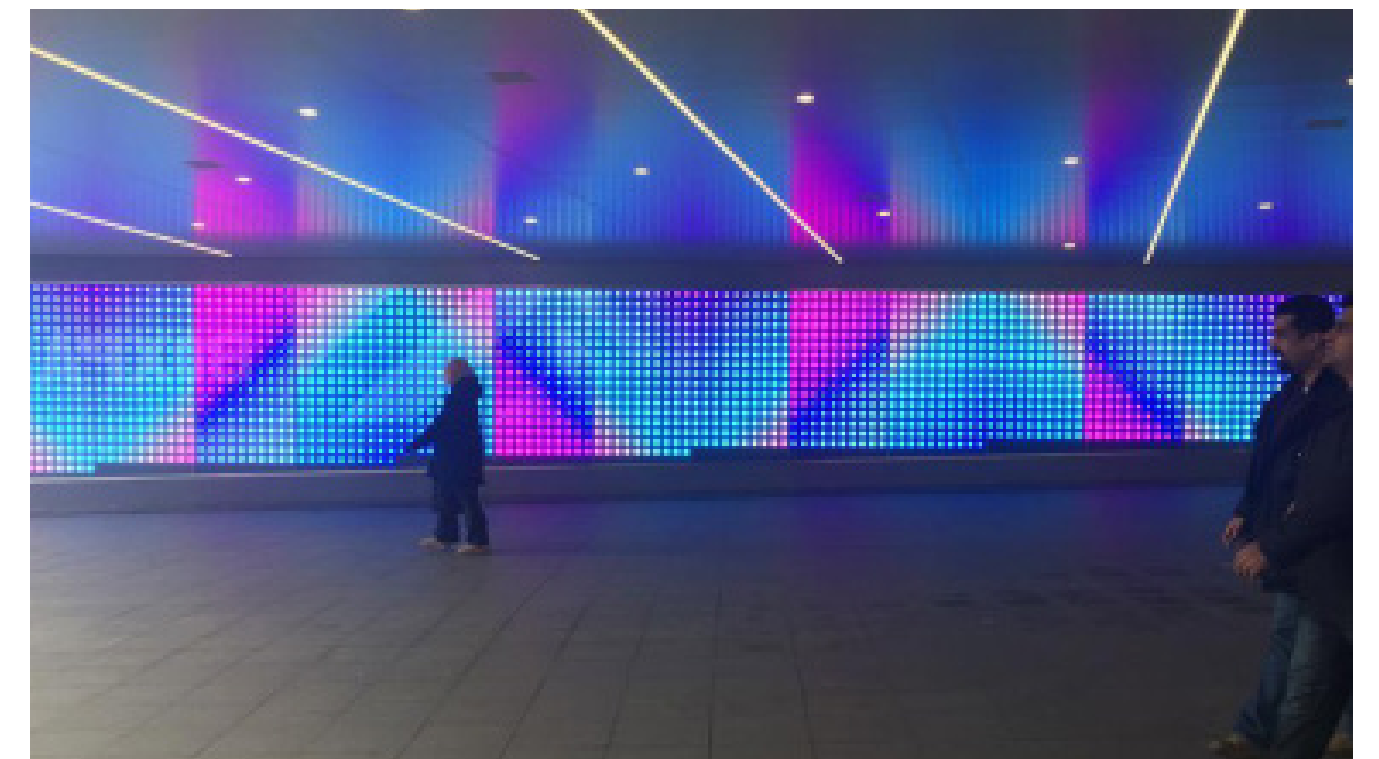
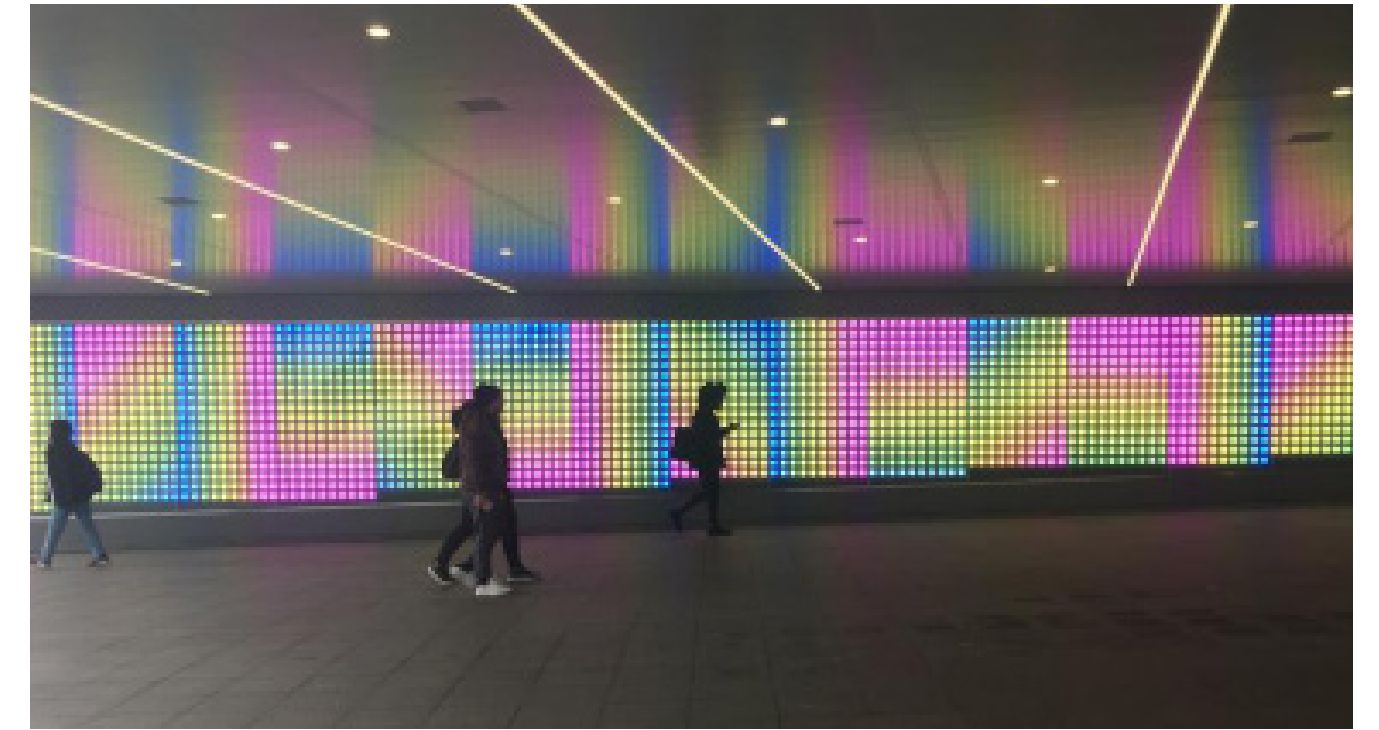
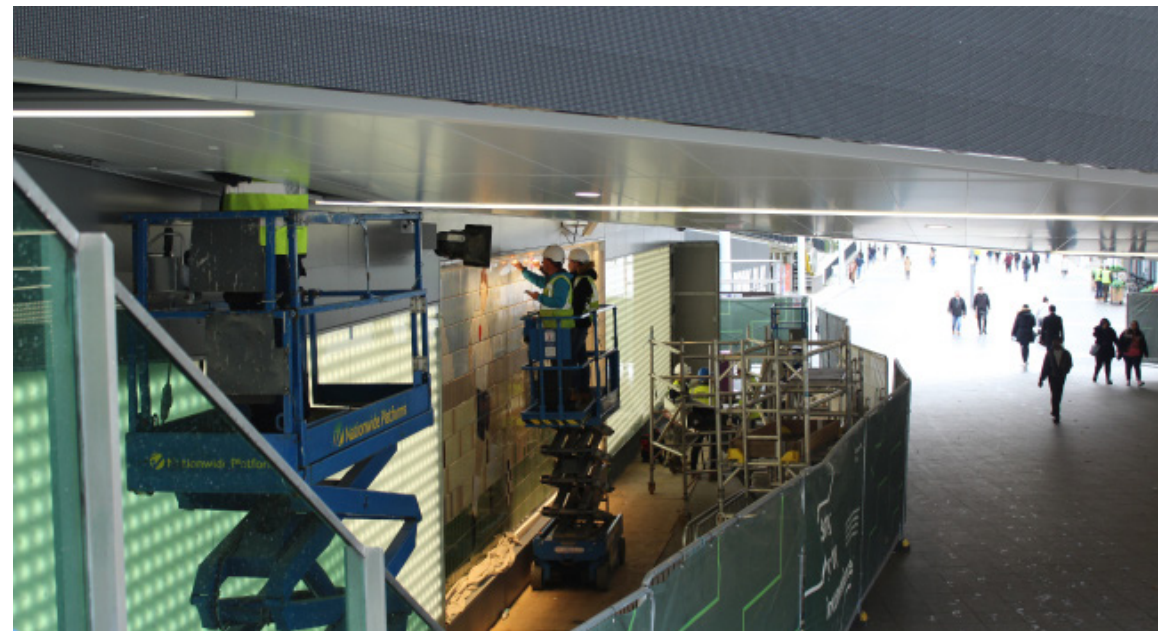
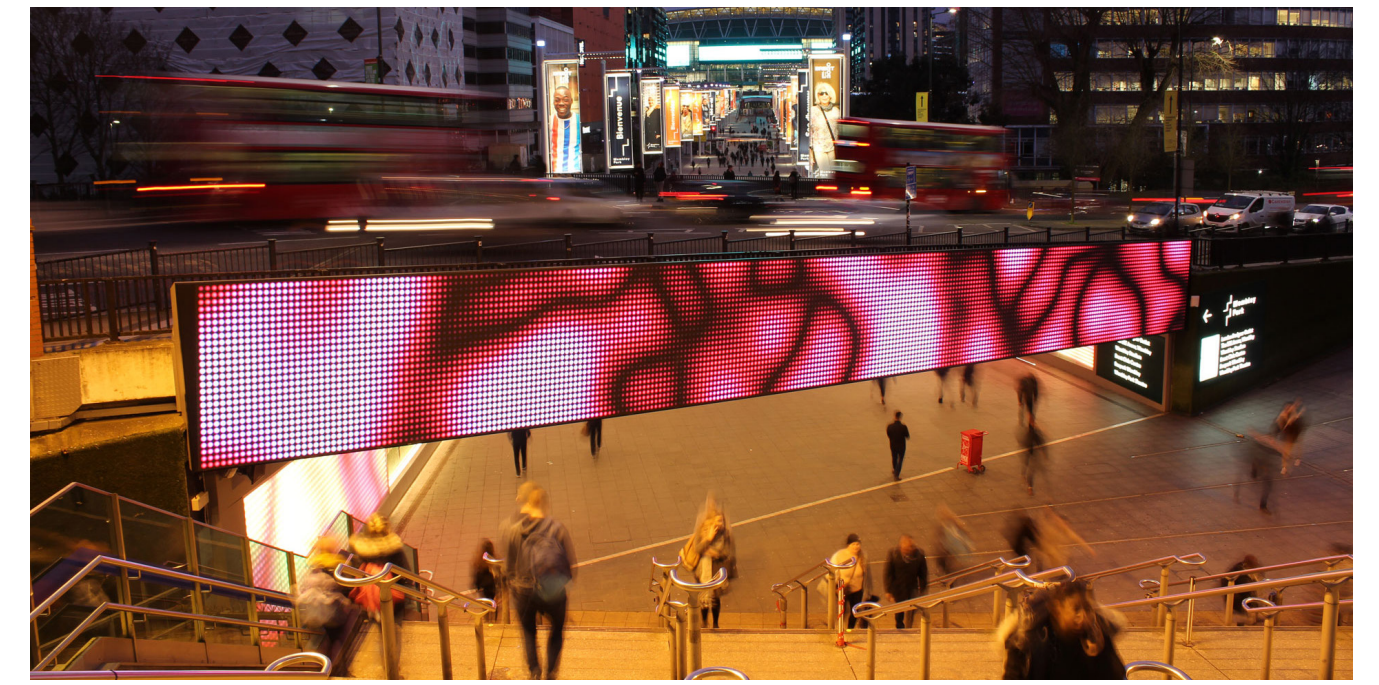
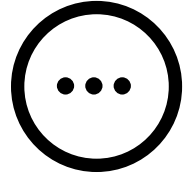
The first of the artistic installations has been commissioned from architectural design collective, miriamandtom.

Entitled Crossover, the work reflects the complex makeup of the community that live and pass through Wembley Park every day. Crossover takes its palette from the surrounding area and the bands of colour have been arranged in deliberately angular contrast to the dynamic appearance of the architecture. As light artist Tom Sloane describes;

*“Having the opportunity to bring an element of celebration that’s deeply rooted in the surrounding community to people’s daily routine while simultaneously having the chance to design an artwork that will be many people’s first impression of Wembley Park was a great commission to take on. We hope people feel that Crossover will enhance not only the Bobby Moore Bridge, but their regular interaction with the space in positive ways.”*

The Bobby Moore Bridge is both a marker of arrival and departure at Wembley Park and Crossover will bring a daily sense of celebration to the residents of Wembley Park, visitors to the area, and the steady crossover of people and events that the bridge is witness to.









# Grand Central, Birmingham

Bespoke spectraglass ceiling fins & atrium feature



Architect  
Light Design  
Products  
Services

HFM  
The Light Lab / Tiller Studio  
Spectraglass  
Specialist lighting design, manufacture & installation

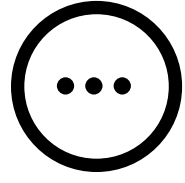
**Birmingham's Grand Central; the retail and F&B destination, integrated with the largest transport hub in the UK outside of London, has recently completed a £2m upgrade to the New Street Mall by Hammerson. The refresh works include the creation of an engaging, vibrant and bespoke lighting scheme by HFM Architects & The Light Lab.**

[View here](#)

Birmingham's Grand Central; the retail and F&B destination, integrated with the largest transport hub in the UK outside of London, has recently completed a £2m upgrade to the New Street Mall by Hammerson. The refresh works include the creation of an engaging, vibrant and bespoke lighting scheme by HFM Architects & The Light Lab. HFM's approach to the challenging brief to enliven the mall experience was driven through the necessity to reconnect the prominent strand between the High Street and the New Street Mall, within the centre. Working with the specialist team at The Light Lab, HFM introduced a sinuous, dynamic and programmable lighting scheme, to better the placemaking identity of the space – recently shortlisted in the 2021 darc awards in the art: bespoke category.

A part of Birmingham's important scientific history can be attributed back to the discovery of the three-dimensional helical nature of DNA by Maurice Wilkins. It was these natural waveforms that HFM used as design precedent granting the space a new, and more defined character. The scheme is split in to two phases, where the first, provides an installation piece to signify a grand arrival from the high street, into the second, where a weaving skyscape forms the genetic fabric of the mall.









# Aviva Studios, Manchester

bespoke LED handrail



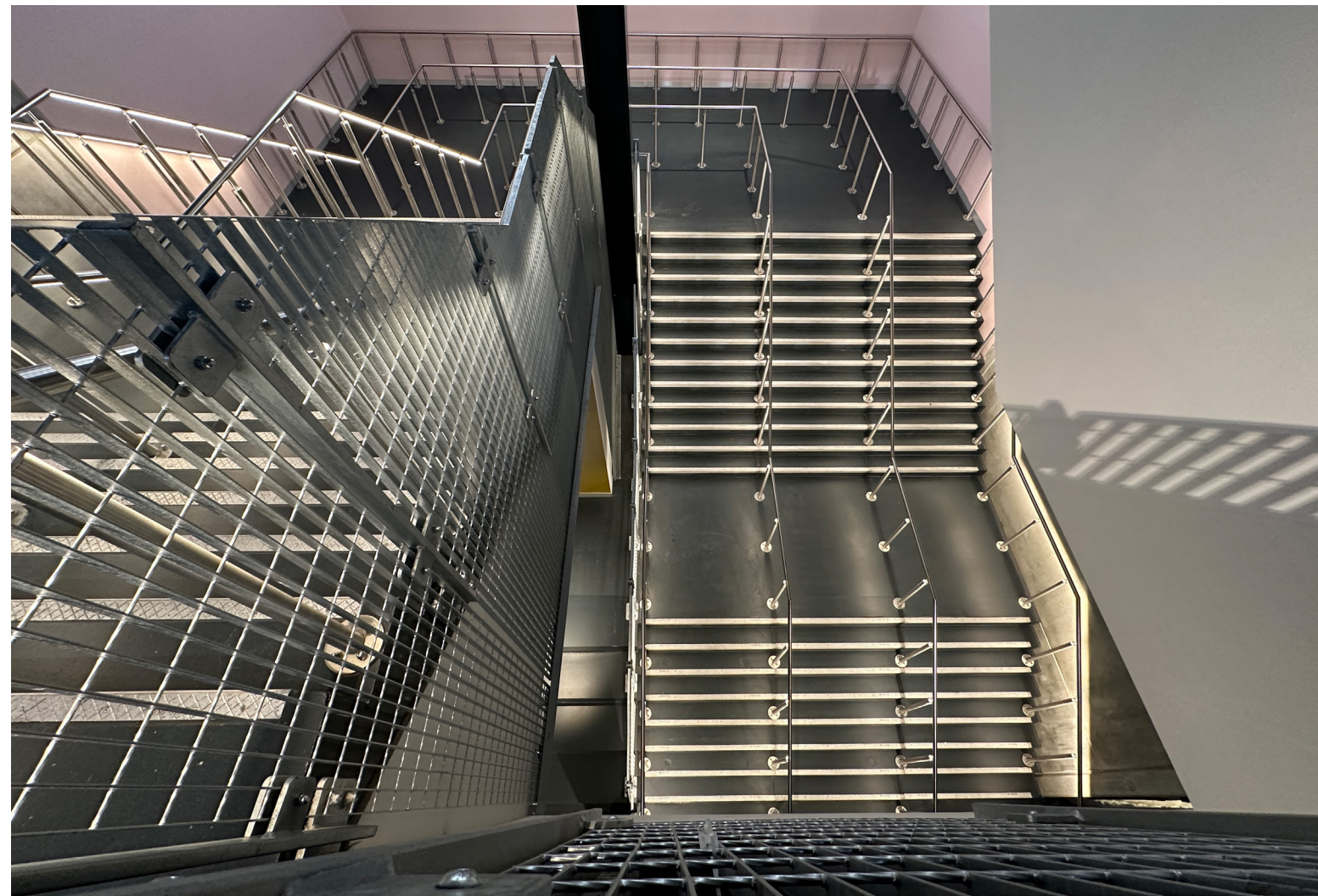
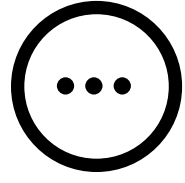
Architect  
Light Design  
Products  
Services

OMA  
BDP  
Glowrail  
specialist lighting manufacture & installation

**Aviva Studios, in Manchester, is a landmark new cultural space for Manchester, comprising of a 13,250 sqm building; developed by Manchester City Council, with backing from Arts Council England, The new home of Factory International is a unique multi use space, with an adaptable space to suit any kind of set up – ‘from intimate theatre shows and intricate exhibitions, to huge multimedia performances and warehouse-scale gigs fit for the greatest artists of our time’.**

Our specialist team fabricated and installed our custom stainless steel LED Glowrail product in the entrance hall to the Warehouse; the connecting stair to the Andrew & Zoe Law hall and also an orange powder coated rail was fitted for a more functional fire escape stair. Our Glowrail product delivers a sophisticated lighting solution to Aviva Studios, with the sleek lines of seamless light, creating a harmonious blend of form & function.









# Concord London

Exterior inground feature



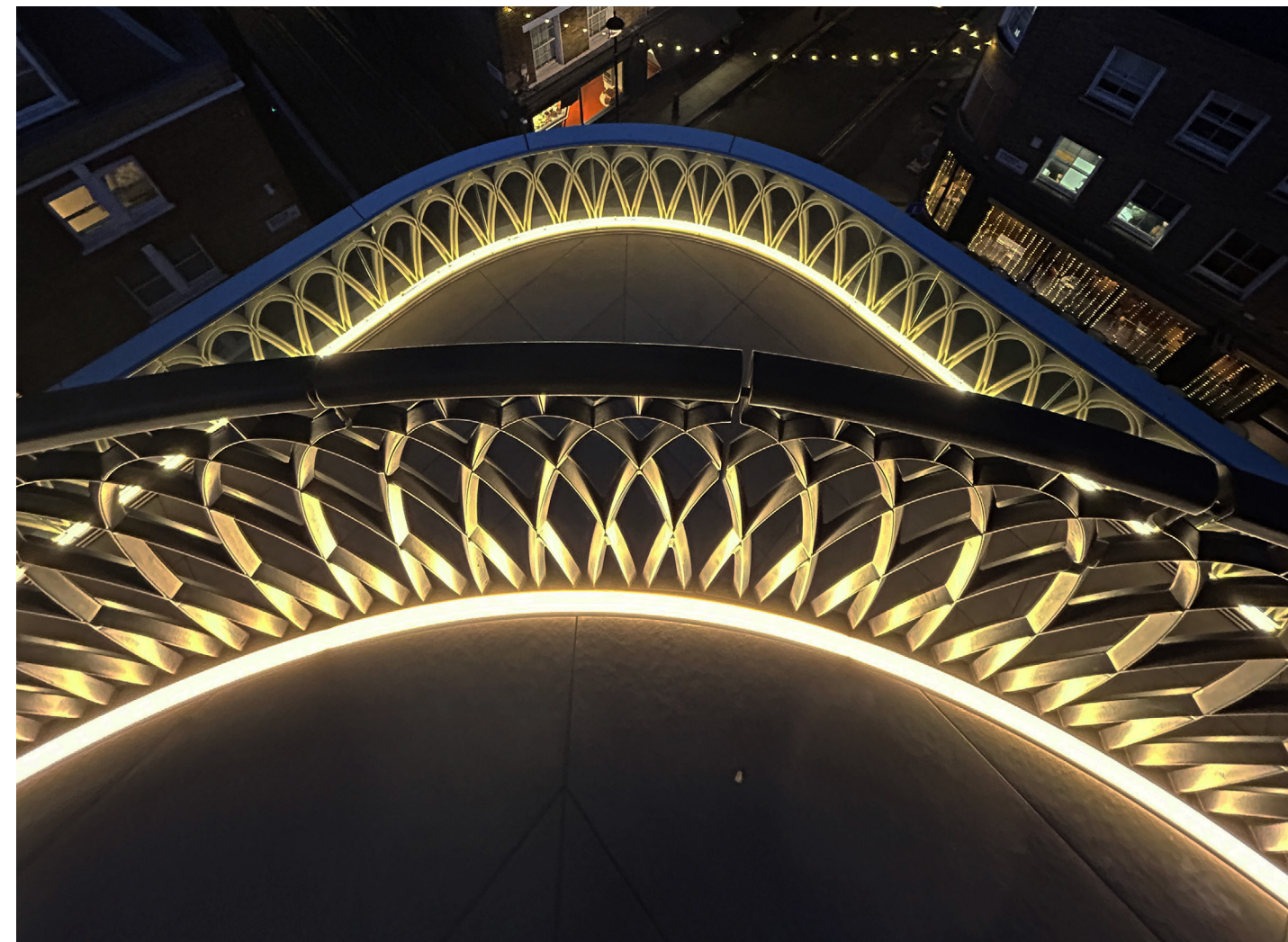
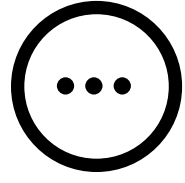
Architect  
Light Design  
Products  
Services

HLM  
The Light Lab  
Glowline - Inground  
Specialist lighting design, manufacture & installation

**The Light Lab realised initial concept by HLM architects; to fabricate interlinked circles of bright light, set into the ground in the forecourt of Omagh Fire department headquarters in Northern Ireland. The Light Lab proposed our Glowline Inground product to create a curved 50mm wide fitting in various specific radii.**

The fittings required a fixing system solid enough to remain set in place in the external patio application but also accessible for maintenance. They were designed and manufactured with a belt and braces approach, to ensure reliability through the extremes of Irish weather, in addition to being robust enough for heavy vehicles to drive over. 24v LEDs with less than 10w/m power consumption with >80 lumens/watt ensured low ongoing operating costs.









# Freshfields

bespoke LED handrail - timber finish



Architect  
Light Design  
Products  
Services

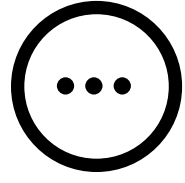
Sheppard Robson | IDSR Interiors  
18 Degrees  
Glowrail  
specialist lighting manufacture & installation

**The Light Lab worked alongside lighting designer 18 Degrees to manufacture and install a bespoke timber handrail at the new Freshfield's Bruckhaus Deringer LPP HQ at 100 Bishopsgate.**

**Our specialist team realised the custom lighting design of 18 Degrees, to create a bespoke timber finish handrail with our bespoke glowrail fitting.**

Working in close conjunction with interior architect ID:SR & Sheppard Robson, 18 Degrees were tasked with designing the lighting for the front and back of house areas in the London based law firm's office. Our Glowrail product was specified to light helical and straight sections of stairwells; providing a striking centre piece within an office designed to accommodate 'agile working' and 'preference of staff, as well as the availability of natural light taken in to consideration' A1 Lighting April 2021.









# Hiscox, York

Bespoke leather clad handrail



Architect  
Light Design  
Products  
Services

MAKE  
Chapman BDSP  
Glowrail  
Specialist lighting manufacture & installation

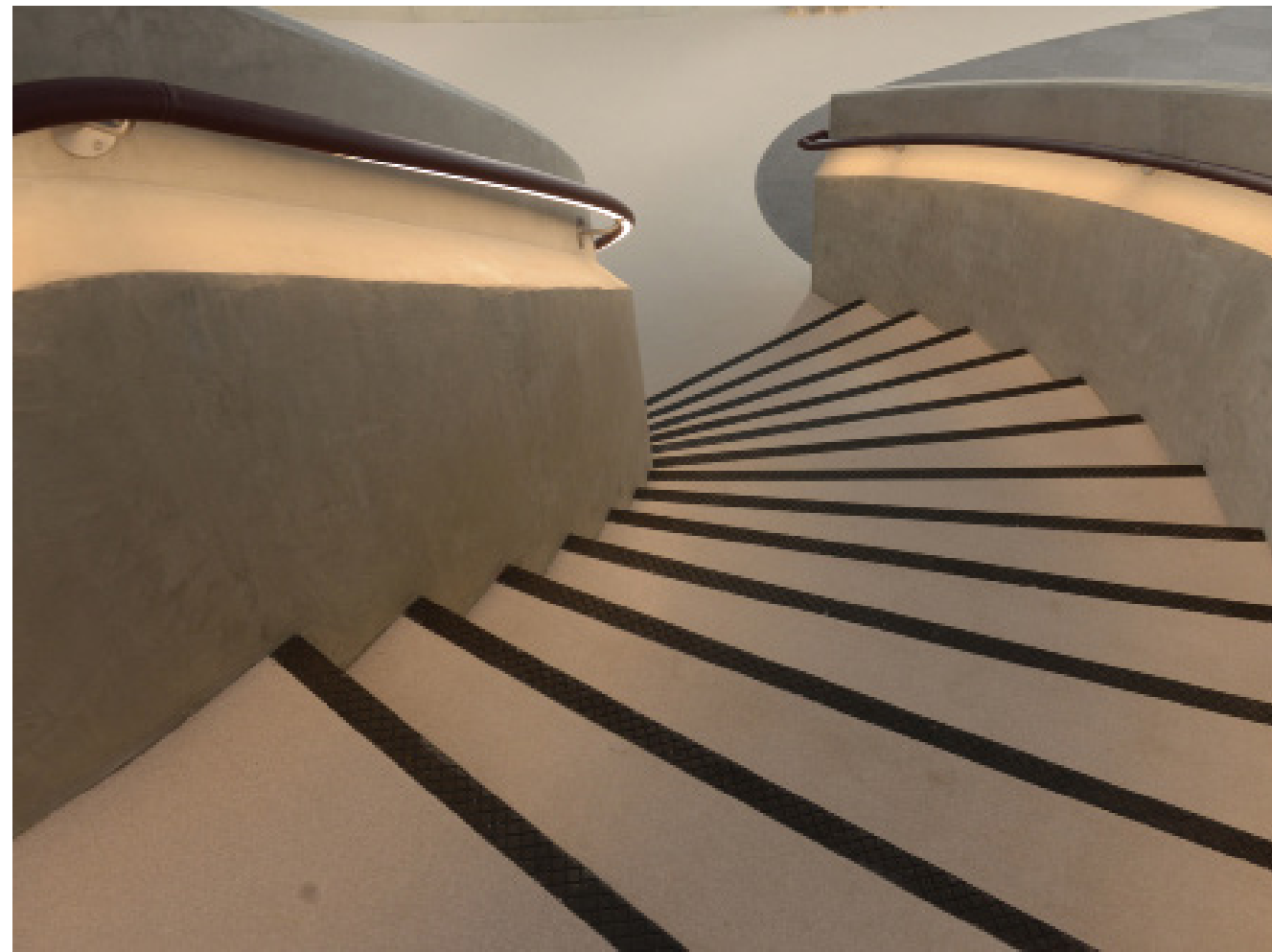
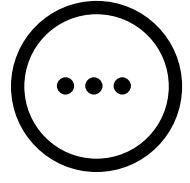
**The new office build for Hiscox, York features a centerpiece comprised of three cast concrete stairways that flow elegantly through the heart of the triple-height atrium. Designed by Make Architects, these helical style stairways hover effortlessly high above the ground floor as workers are able to drift leisurely beneath. A room awash with tonnes of natural light and contemporary architecture, The Light Lab were tasked with providing bespoke LED handrails using Glowrail product.**

A distinctive building externally, with bold curving corners and rounded glass windows, the handrail is a stunning addition to this already rich architectural design.

Harcourt London added the finishing touches, cladding the handrails in rich, high-quality leather. Close coordination and a shared creativity between the parties involved resulted in the creation of a show-stopping bespoke leather LED handrail for the client, who were delighted with the result.

This polished place of work is set to be a landmark building and we are thrilled to have been part of this project.









# Broadgate Quarter

Bespoke atrium feature light



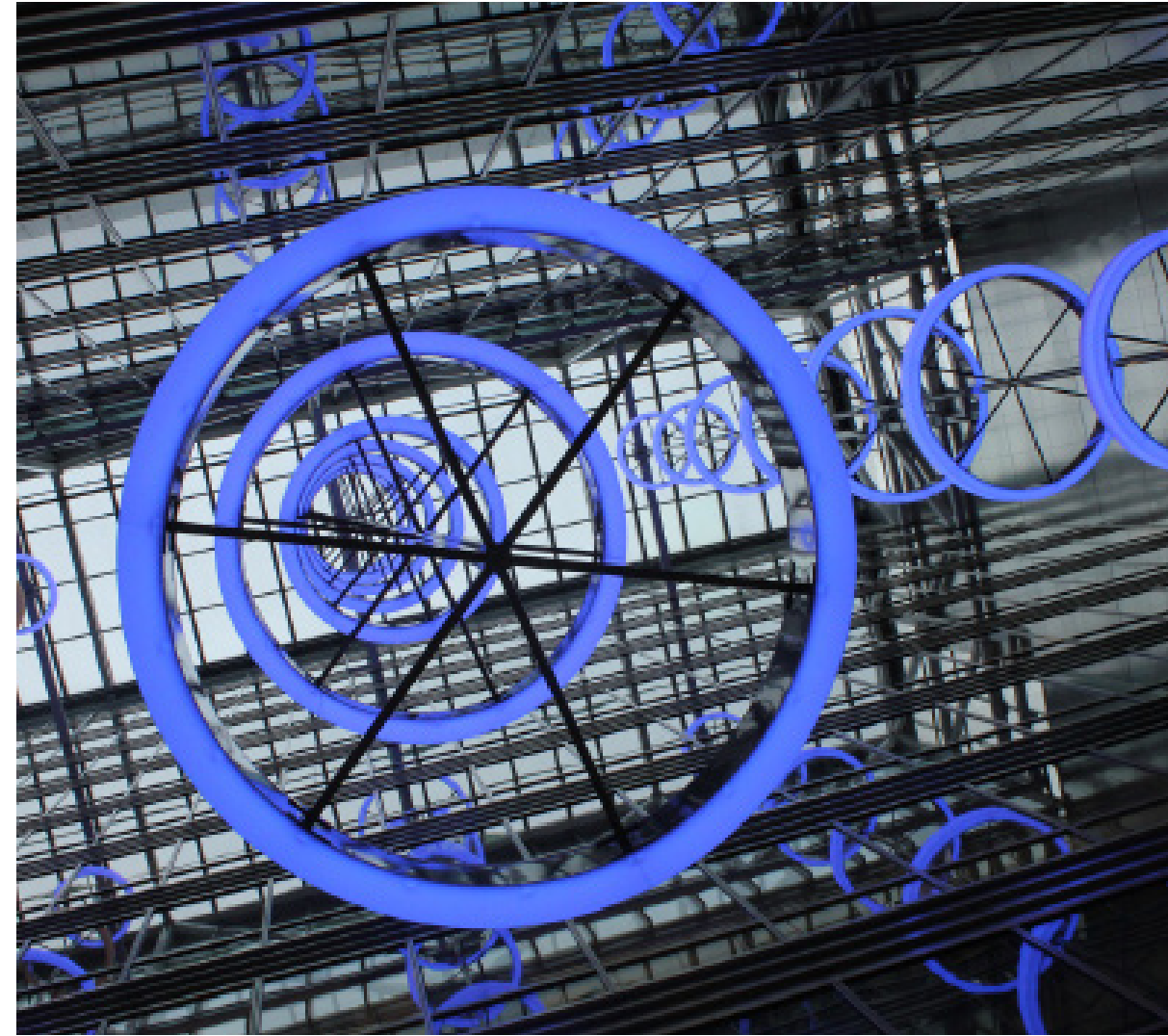
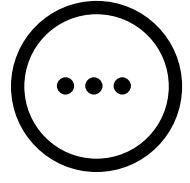
Architect  
Light Design  
Products  
Services

John Robertson  
Cundall  
Bespoke atrium feature light  
Specialist lighting manufacture & installation

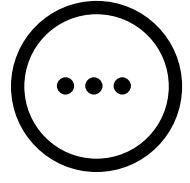
**The Light Lab manufactured and installed this stunning bespoke atrium light feature at the commercial offices of Broadgate Quarter in the City. The installation took place over a 6 week period, using our specialist installers, working alongside a team of abseilers, to ensure that each bespoke halo structure was installed as designed. This is our largest atrium lighting project to date, with the installation reaching almost the full length of the 50 metre atrium.**

When tackling the full project, the main design challenges involved the structure of the feature; particularly the balance of providing sufficient strength to each illuminated ring, whilst ensuring there was no visible shadowing. At the same time there was the requirement of a very light-weight structure to fix to the existing atrium support beams. The final design was approximately 750Kg per chandelier (including all cabling) which for a 45m long structure, was a considerable design challenge. The cabling alone was a sizeable task, requiring the running and managing of over 1km of cabling of sufficient size, to ensure all LED rings were consistently and evenly illuminated.













# Viaduct Link, Wellington Place

bespoke LED handrail - stainless steel



Architect

Sheppard Robson

Light Design

ARUP

Products

**Glowrail**

Services

specialist lighting manufacture & installation

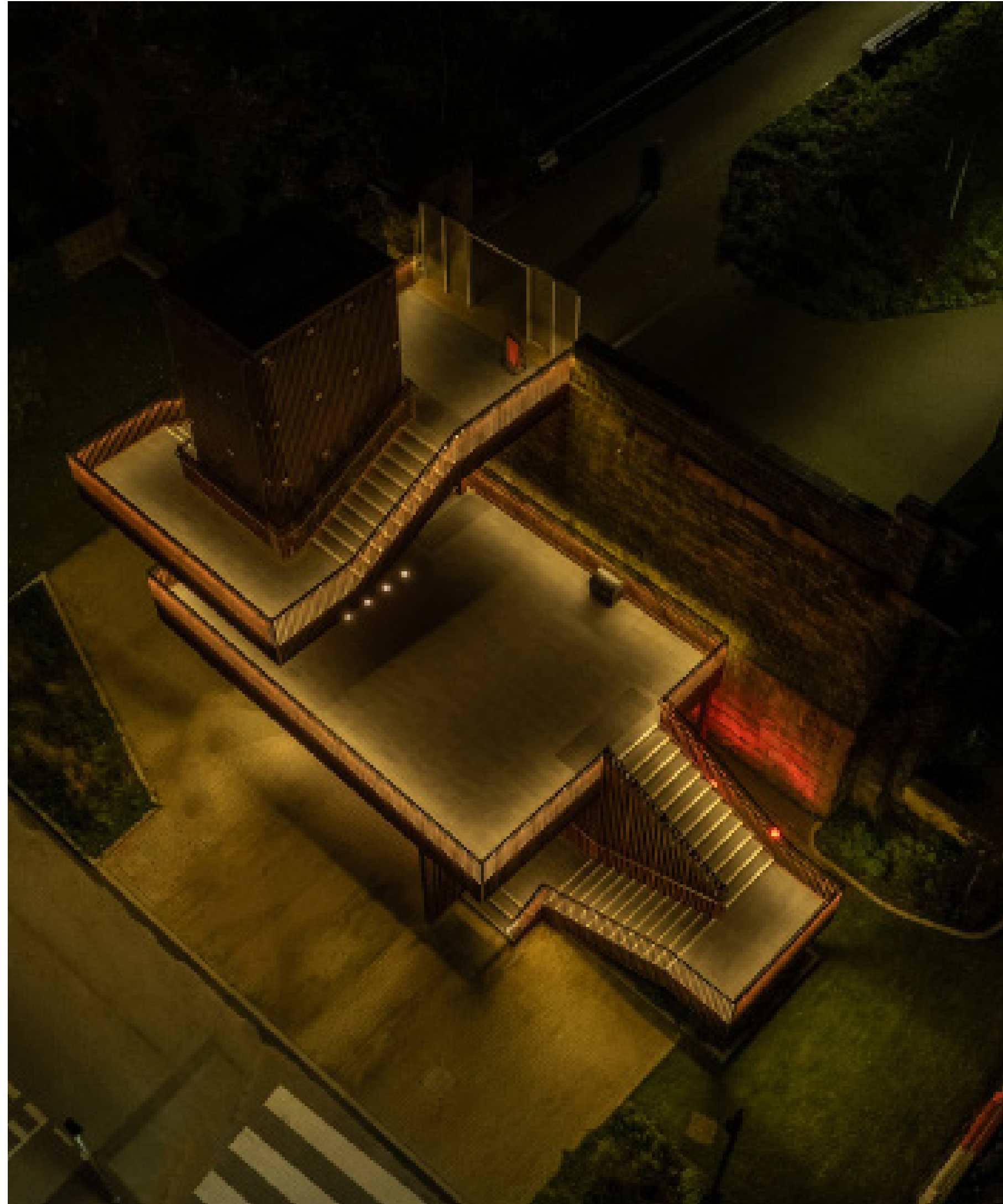
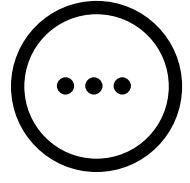
**The Monk Bridge Viaduct regeneration project, at Wellington Place Leeds, has seen access returned to the historic bridge, for the first time in 40 years.**

**Developer MEPC have created Yorkshire's first elevated urban park, with the viaduct link designed by Sheppard Robson, contractor Wates and lighting design by ARUP Leeds.**

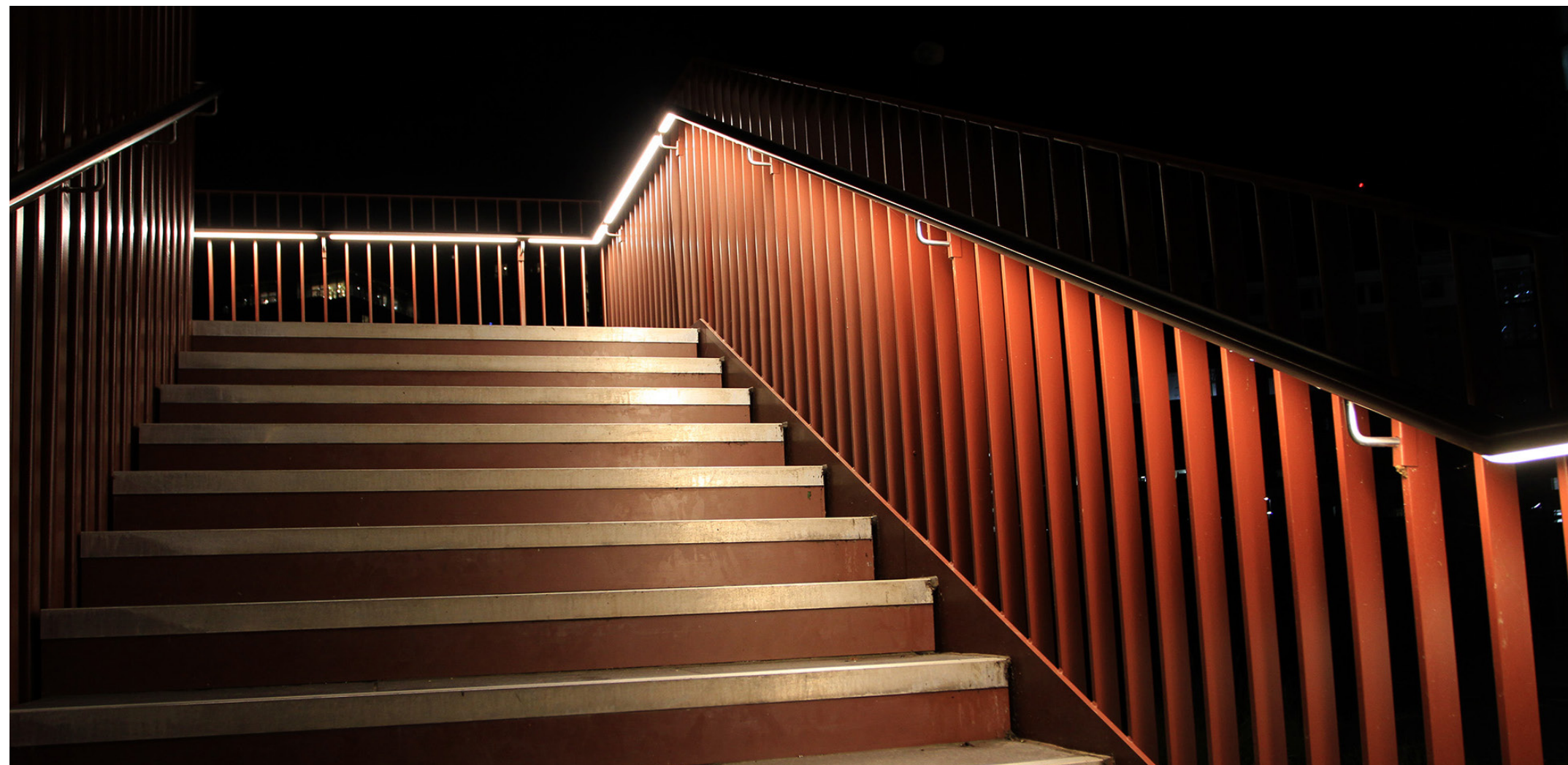
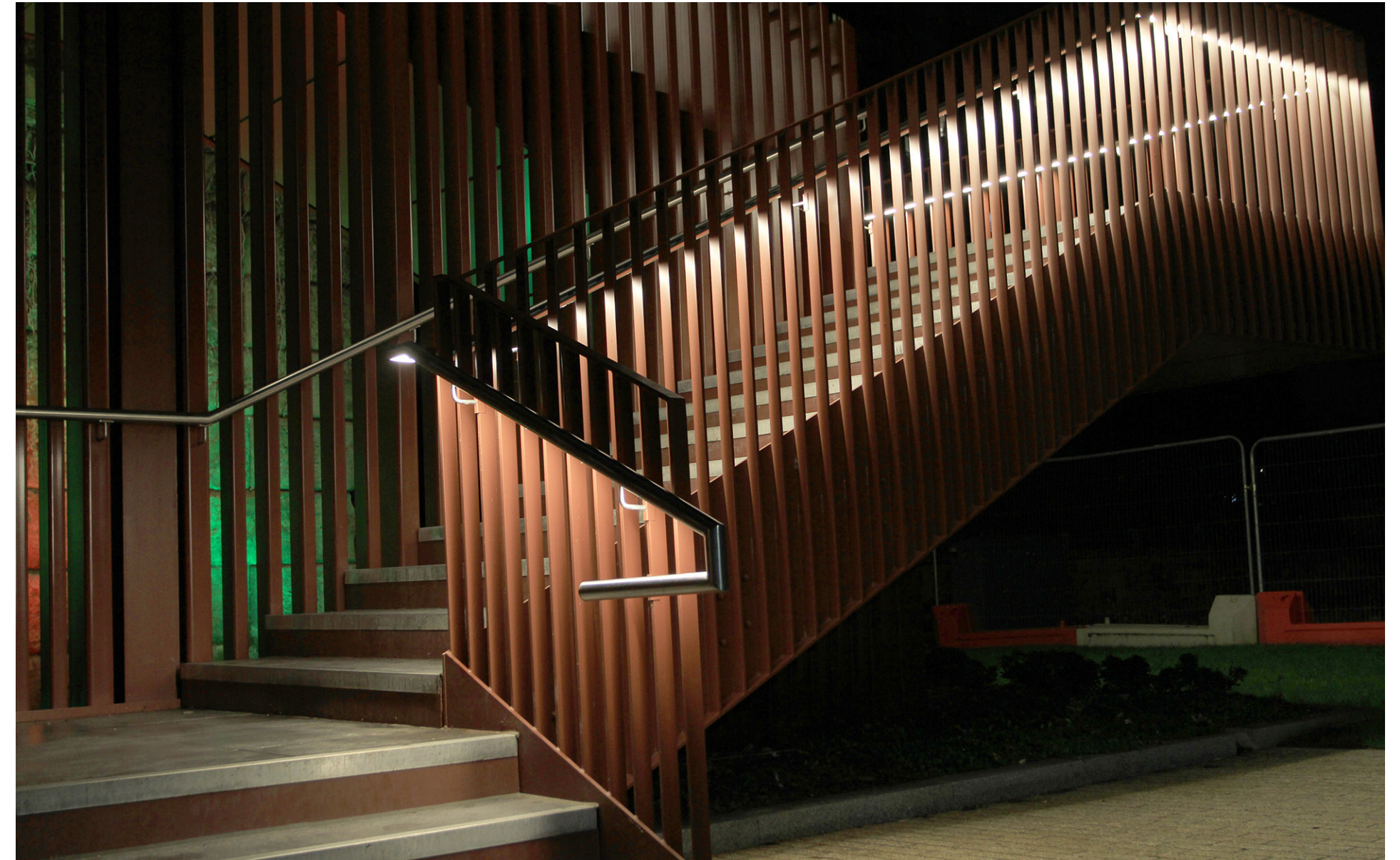
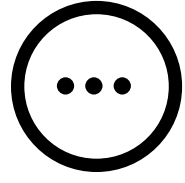
The Light Lab were specified by ARUP to provide bespoke 'Glowrail' illuminated handrail fitting for the external staircase linking the bridge to street level. Our specialist team fabricated and installed our custom LED handrail fitting, in a polished stainless steel 316 finish.

The grade two-listed Monk Bridge viaduct was built around 1846 as part of the new railway network being constructed in the Wellington Street area of Leeds, and is one of several heritage lighting projects that The Light Lab have been involved with this year. The project was recently shortlisted in the FX Awards 2021 in the 'Workspace Environment – Large' Category.







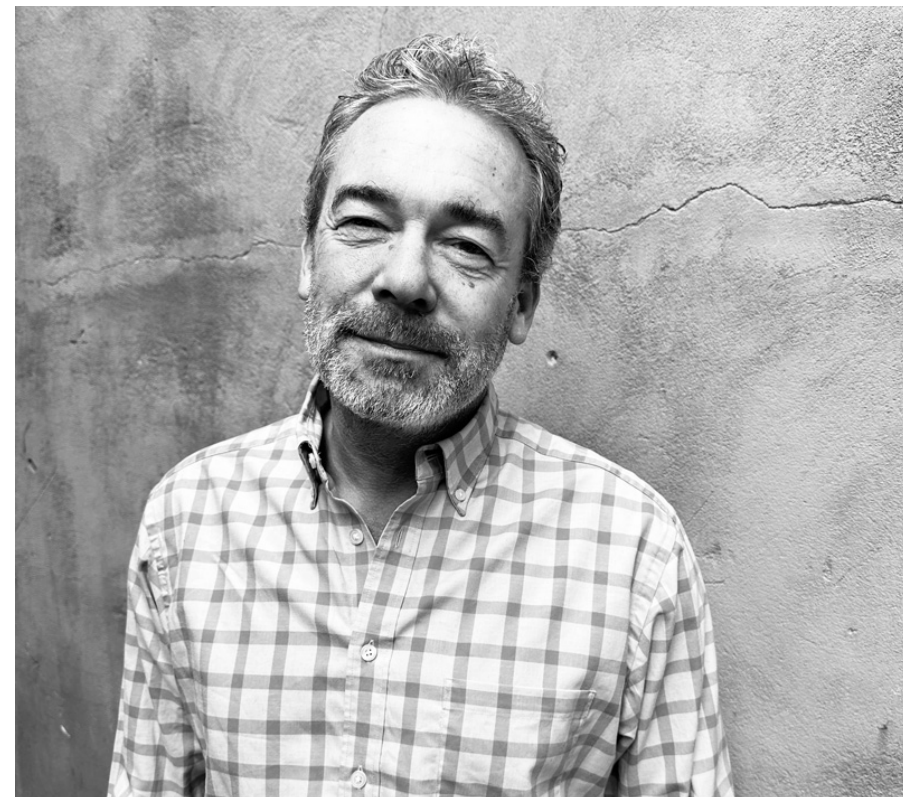






# who will be working on the project?

The three company Directors are also the lead project & production managers and they will be your point of contact throughout the duration of this project.



## Phil Riley, Director

Phil started life as a qualified chartered accountant, moved quickly into project management and then spent 10 years as an independent management consultant, specialising in project management in large multinationals at a local level, managing manufacturing, logistics and installation projects for Nestle all over Europe.

Phil oversees the growing number of projects in the US - most recently spending time in New York to project manage a large scale lighting installation at Penn Station (*see case study detailed in these credentials*).



## Graeme Laurie, Director

Graeme has an MSC in Light and Lighting from UCL and has worked for The Light Lab since 2003. He has been responsible for managing a diverse range of lighting installations in the UK - also overseeing the majority of international projects in the Middle East & Australia - overcoming logistical complexities and large scale engineering challenges.

Recent projects include Paspaley, Australia, Broadgate Quarter (*see case study*), Centria Mall, Saudi Arabia.



## Chris Burridge, Sales Director

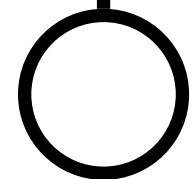
Chris joined The Light Lab as Sales Director in 2020, having previously worked with the team for 15+ years either as a client or a supplier.

Chris has been in the lighting industry for the past 22 years, since leaving Brunel University in 2000, where he studied Mechanical Engineering. Initially specialising in fibre optic lighting, Chris soon moved into other areas to expand his knowledge; always in a sales focused role but with involvement in product design and engineering challenges to satisfy his creative interests.



## Marcus Cave, Production Director

Marcus has more than 30 years of lighting design and installation experience and creative product engineering. He has been responsible for many high profile global lighting projects, including the award winning Kings Cross light tunnel, Sushi Samba, Lexington Avenue, New York & University of Arts parade ground. Working closely with top lighting designers & architects including Chapman BDS, Alma Cardzic, Nulty +, Arup & BDP.





# “ testimonials

**“In our design solutions for Friars Walk, we required the exterior stainless steel and glass balustrade and façades to contribute towards elevating the centre’s night-time economy. To achieve this, we adopted The Light Lab’s new technology to provide an exciting and energetic character to the centre’s public realm. Not only does it bring Friars Walk to life at night , extending the dwell time of shoppers, but it also allows for visual connectivity between the upper and lower external areas of the centre. This ensures shoppers can easily navigate through the centre, capitalizing on the diversity of retail and leisure available.”** *Brian Tracey, Director at Leslie Jones Architecture (*



**“From the very early stages, the staircase played a central role in the overall design of the space. The lighting enhanced the geometry of this fantastic design by Allies and Morrison and created a seamless directionality for the visitors, staff and students.**

**The involvement of The Light Lab early on, ensured a good integration of the lighting into the curved handrail and a smooth installation process, despite the challenging geometry and services coordination. The final result can only leave you in awe, especially when you find yourself in the space, experiencing first-hand the playful combination of the curves with the concrete material that the warm light so beautifully highlights. It is one of the designs that our lighting team in Buro Happold is most proud of.”**

*Myrto Skreta-Krikou, Associate Lighting Designer, Buro Happold*



# “ testimonials

*Andrew Bissell from Cundall, speaks of the close working relationship between the designers and the light lab, to ensure the installation ran smoothly and was completely true to the design. “Having designed such a large lighting element to fill the atrium space, we needed to be sure the design intent was retained through the construction detail and installation process. The Light Lab understand the importance of even the smallest of details and how to manage and undertake an installation of this nature. As such the client has the lighting effect originally presented along with a high quality and low maintenance product and installation.”* *Broadgate Quarter, London*



“



”

**“The West End Concourse at Penn Station was a large, very public, project in New York. Time was absolutely critical to meet the tight deadline set by the Governor’s office. The Light Lab executed the project on time and within budget. From a design standpoint, they understood how to translate a concept into reality from the desired lighting effect to addressing durability and maintained issues. The result is a high quality, lighting installation which has been received extremely well by the New York Public.”**

*Peter Fajak – Skidmore, Owings & Merrill (Penn Station)*



# **the light lab**

**bright ideas**

**22 Holywell Row  
London  
EC2A 4JB**

**+44 (0) 207 278 2678  
info@thelightlab.com  
@thelightlabltd**

---

**Thank you**