

# CASE STUDIES



**MicroLouvre**  
Lighting Accessories



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acdc

VIBIA

KKDÖ

linea  
light  
group

THORN  
LIGHTING

JOHN  
CULLEN

KEMPS  
ARCHITECTURAL LIGHTING

RADIANT  
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LightGraphix  
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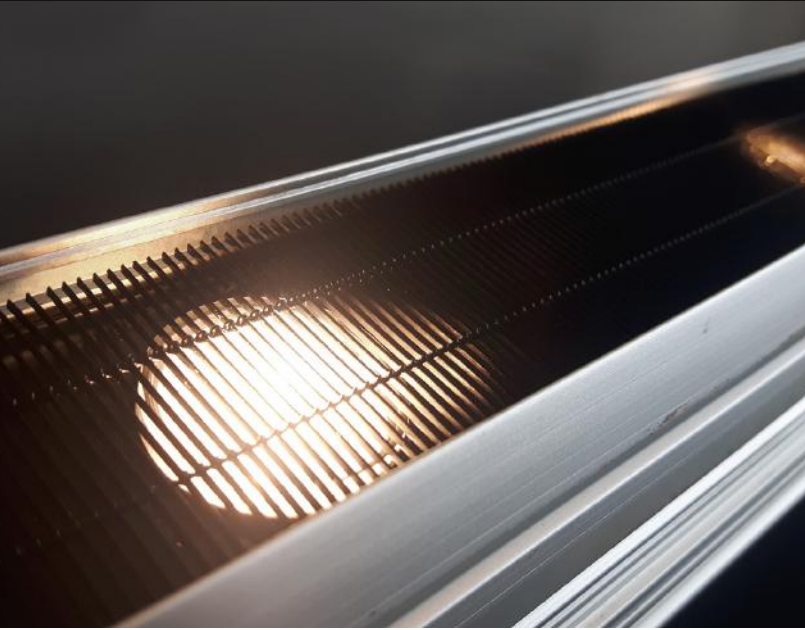
DELTA LIGHT®

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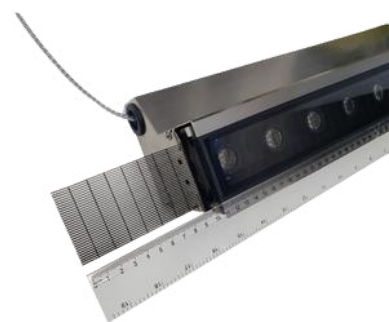
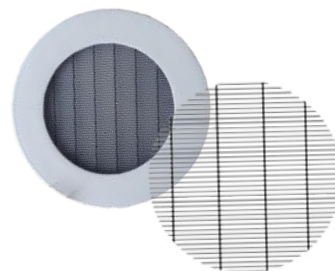
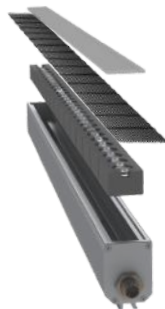
# Perfect for **ALL** Lighting Units



MicroLouvre metal louvred fabric is an advanced light control solution that enhances the efficiency, precision, and effectiveness of lighting systems.

Its unique micro-louvre structure makes it ideal for:

- minimizing glare
- stopping light spill and trespass
- directing light
- balancing natural and artificial light
- controlling light distribution







## Background:

Public realm project on a historic listed building. Lighting designers realised their ambition for this historic piece of architecture, using Microlouvre Koolshade® fabric to neutralise the glare from the in-ground luminaires.

Architectural lighting specialists StudioFractal and its partners, worked on a project to create the first new public square in London for 150 years, a functional space with heaps of character at King's Cross Square, St Pancras.

## Challenges:

StudioFractal worked with lighting designer acdc to realize its design for this historic piece of architecture, and we supplied Microlouvre Koolshade® fabric to neutralize the glare from the in-ground luminaires.

- Historic building
- Maintenance free
- Neutralizing glare
- Public realm project

The result has been a cleverly designed (and expertly hidden) LED lighting scheme that defines the furniture and structures in the square at night.

In fact, a perfect blend of functional and accent lighting!

The light grazes up the ground floor of the building to reveal the brickwork. Microlouvre Koolshade® is integrated into the luminaires and works to hide the light source whilst maintaining an integrated balance of glare control and high lumen transmission.



The varying lengths of the space and the nature of use of the historic building as a public space restricted the designers from using any external fittings to the lights, because of health and safety regulations.

The internal application of the metal louvred fabric therefore allowed acdc's BLADE LRi to perform and to meet the desired effect.



Chris Sutherland, Design Director at StudioFractal explained: 'As well as highlighting the broad expanse of the façade, we wanted to gently pick out the small niches and cornices with the same lighting effect. The product we used needed to be available in a range of lengths to suit the variation in space available. Also, being grade listed meant that the luminaire fixings had to be located in existing mortar lines to ensure no damage was done to the façade.'

#### RESULTS

- Hidden light source
- High lumen transmission
- Fire and heat resistant







## Background:

This lighting project brief required the designers to create a striking and exciting exterior; bright, luminous, and colourful.

Grazing linear luminaires created an even light up the facade. The use of Microlouvre assisted with the control of light to be directed to the intended target only, minimizing light pollution and glare.

Stadkamer is a City Hall office building which has been transformed into a contemporary hub. Providing information and education, art and culture in the heart of Zwolle, Stadkamer is home to performances, good food, and community spirit.

A sociable space made for studying and working, socializing and relaxing.

The requirements were for:

- Facade lighting
- Wall wash effect
- Changing colour schemes
- Meeting stringent health and safety regulations

## The Problem:

acdc are part of the Zumtobel Group and global lighting application experts in outdoor architecture, plazas and landscapes. acdc design groundbreaking luminaires which integrate market-leading technologies. acdc were invited to work with architects, JHK, on the transformation of the entrance building which connected the other building parts.

It has a closed façade covered with translucent skin with refined vertical lines. The lighting project brief required the designers to create a striking and exciting exterior; bright, funky, and colourful.

The intention was for this event space's facade to share what is happening inside. Using colour, the theme of the function would be portrayed for visitors arriving. The translucency and the changing colours show that the space is full of life.



The acdc Blade Linear Luminaire, with its powerful light output, were mounted at a height of 7.7 metres end-to-end for a continuous wall wash effect.

The grazing linear luminaires' narrow elliptical beam created an even light with the help of reflecting surfaces at the bottom of the concrete wall and façade sending light upwards. The use of Microlouvre Koolshade®, integrated into the units assisted with the control of light to be directed to the intended target only, minimizing light pollution and glare.

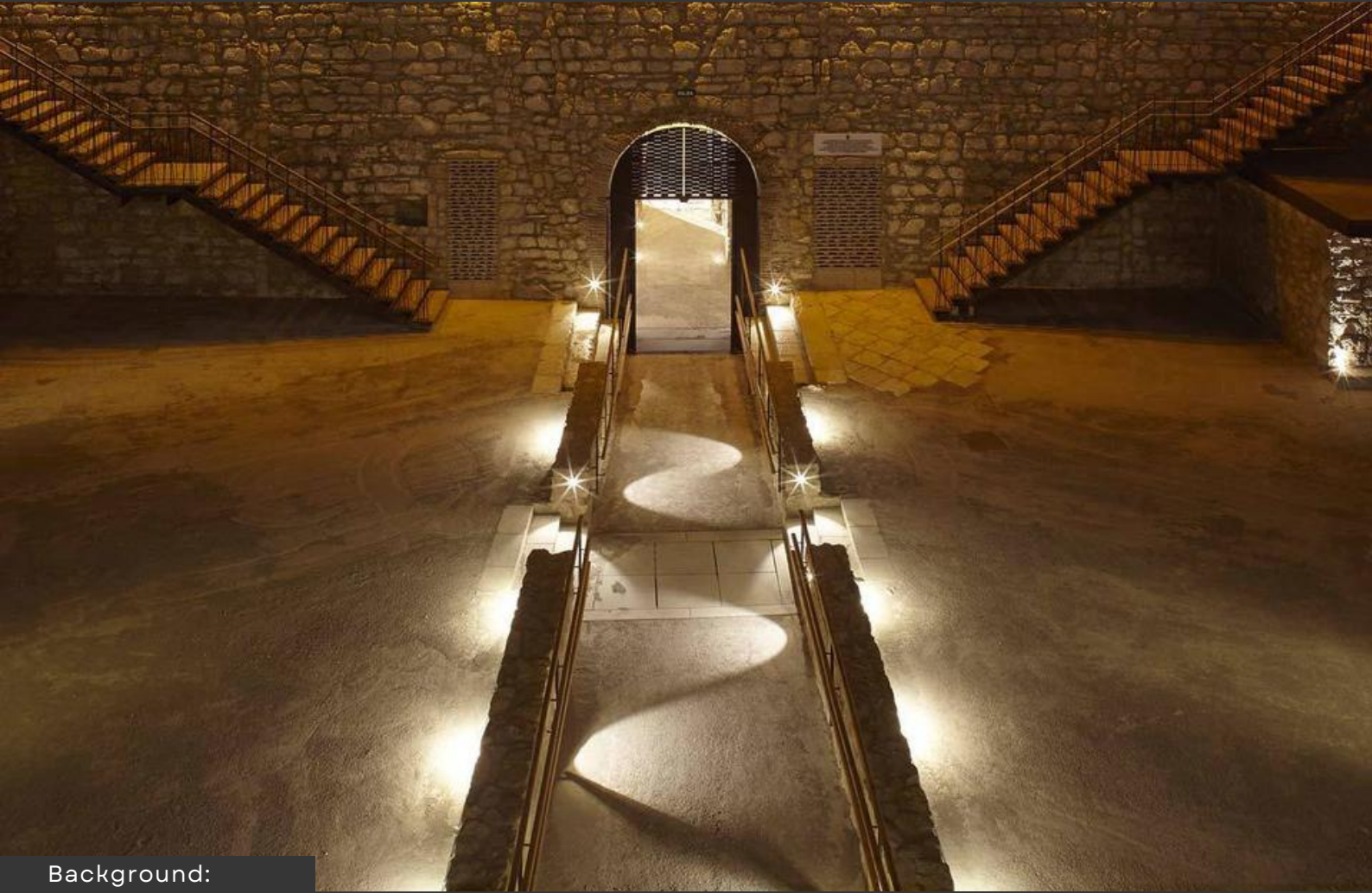
Two DMX CueCore solid-state controllers also meant that unique lighting scenes could be created through dimming and individual LED control.

Two DMX CueCore solid-state controllers also meant that unique lighting scenes could be created through dimming and individual LED control.

## RESULTS

- Directional light control
- Balanced glare control
- Strong colour saturation
- 100% CRI
- Nonexistent light pollution
- Fire and heat resistant
- Made from +90% recycled copper scrap
- Highly sustainable
- 100% recyclable





## Background:

Smartlouvre worked with Linea Light to integrate Microlouvre Koolshade® anti-glare into their high-power LEDs.

With the integration of our Microlouvre Koolshade® metal Fabric, Linea Light enabled their unique product for this truly historic architecture, built in 1736.

## Outcome:

The Fuerte De Victoria Grande fortress was on the verge of being abandoned but this historical architecture was rediscovered and totally restored as a public space for visitors.

Linea Light were the obvious choice with their well proven ability to embrace the unique character of this unique construction, illuminating and creating a perfect harmony between architecture, engineering and lighting design.

They created an innovative lighting scheme bathing the fortress in warm light but this same light had to be focused on the fortress and not the visitors and so directional anti-glare ability was needed for their unique product.







### The solution:

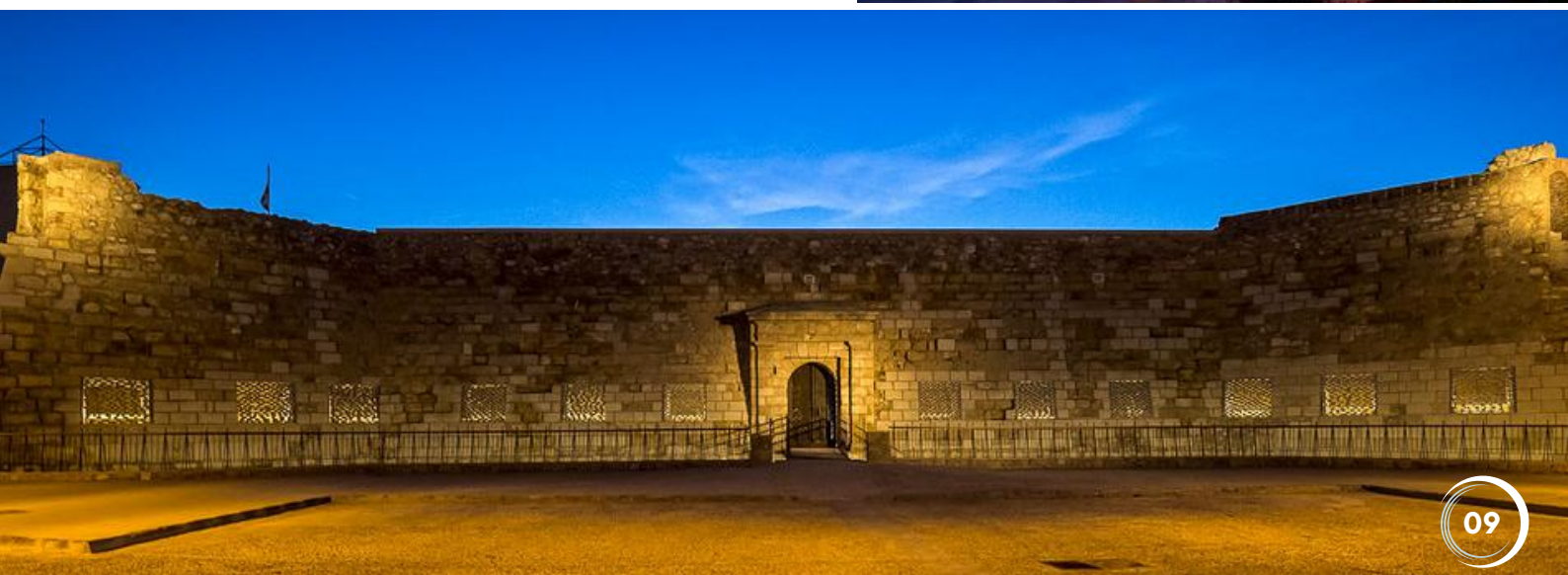
Our Microlouvre Koolshade® anti-glare, light directing fabric was incorporated into their exceptional product.

The Xenia anodized extruded aluminium profiles with high power LED and polycarbonate linear optic were subtly integrated into the historic architecture enabling the powerful illumination to not visually interfere with the magical atmosphere of the environment or the enjoyment and comfort of visitors.

Microlouvre Koolshade® ability to hide the light source whilst maintaining an integrated balance of glare control and high lumen transmission made it the ideal solution for any high-powered light and especially, when combined with Linea Light's unique product.

### The results:

- Neutralised glare
- Mitigate light migration and pollution
- Made from +90% recycled copper scrap
- Highly sustainable
- 100% recyclable





## Background:

John Cullen Lighting is an award winning lighting specialist who has pioneered architectural lighting for over 40 years, creating high-end, miniaturised luminaries that deliver premium quality light without compromise.

## Outcome:

Their latest offering, the Contour Edge, is an in-ground, recessed wall 'grazer' designed to glide light gracefully along vertical surfaces, picking out and emphasising architectural textures and features – in both interior and exterior applications.

Due to the nature of its intended use, it's highly likely that the Contour Edge will be situated in positions where sideways glare could be problematic for the end user, for example when placed parallel to corridor walls.





The use of Microlouvre Koolshade® K700/0° fabric integrated into the luminaires effectively neutralises all sideways glare, without disturbing the light projected forwards onto the illuminated surface.

Combined with screen-printed glass to protect the viewer from bounce-back glare, Contour Edge is one of the most visually comfortable in-ground recessed luminaires on the market, without compromising output or quality.

# JOHN CULLEN



Resulting in:

- Neutralised glare
- Non-existent light trespass and pollution
- A sustainable answer made from +90% recycled copper scrap



The former Lilian Baylis Secondary School building, a prominent example of 'Brutalist' architecture has been renovated and refurbished to become an award winning residential complex.

As an essential part of this transformation, an aesthetic exterior lighting scheme was essential to create a serene and welcoming ambiance for the building. Exterior lighting now envelopes the raw architecture blending with it and giving it a new lease of life rich in atmosphere.

## Outcome:



Linea Light group and the Lighting Design Studio were looking to create a new feel for the architecture that was built in the 1960s with intense architectural characteristics such as bare concrete and sculptural contours.

Lighting had to be installed in a way that would reduce the tension caused by the construction's sharp lines.

The project required a choice of architectural lighting that would result in both; an aesthetic environment and eliminate any visual discomfort and that's where Microlouvre Koolshade® came in play.



Xenia with Microlouvre Koolshade® takes all the advantages of the Xenia family, but was able to guarantee even more visual comfort for the customer, applying an anti-glare screen to the product that sections the beam into microcells.



The screen, extremely thin, does not affect the quality and uniformity of the light emitted, but allows part of the glaring to be shielded.

Resulting in:

- Balanced and directional glare
- Nonexistent light pollution
- Visual comfort





## Background:

Osijek pedestrian bridge spans the Drava River and is one of the city's most iconic landmarks which originally opened in 1981. In 2017 the bridge underwent a spectacular full colour transformation funded by a Coca-Cola marketing campaign, which required citizens to collect more than 100,000 bottle caps.

Coca-Cola launched the campaign to mark 50 years of production in Croatia and to share its success as an active member of the local community by supporting projects that enhance the lives of citizens.

## Outcome:



- Balanced and directional glare
- High lumen transmission
- Strong colour saturation
- 100% CRI
- Nonexistent light pollution
- Fire and heat resistant

Compared to other landmark bridges around the world, the Osijek pedestrian bridge was quite literally, left in the dark.

Dynamic, full-colour lighting was required to highlight the bridge's beauty and reinforce its iconic status, as well as enhance the city's recognizability and attract tourists. It was important for the lighting to become integral to life in Osijek, and to be the backdrop for many memories and important life moments.



acdc's parent company, Zumtobel Group, was invited to design, supply, install and commission a new lighting solution. The brief needed the bridge to accommodate the bespoke lighting requirements of any future events and special occasions, which has been delivered through a lighting scheme that offers a multitude of scenes and in infinite colours.

The installation of the new bridge lighting had a tight timeframe of just 1 week. More than 20,000 people attended the ceremony to celebrate the switch-on of the lights, which were set to red to reflect the Coca-Cola brand.

The Blade range of LED luminaires from acdc was ideal for this project: a mains onboard linear wall wash luminaire designed to evenly wash distances up to 8 metres in height and to ensure that minimal additional mains cables are required. This was especially beneficial given that it is used along the full length (210 metres) of the bridge.



Smartlouvre worked closely with acdc to enable the integration of the Microlouvre® fabric into the luminaires to hide the light source whilst maintaining a directional balance of glare control and high lumen transmission.

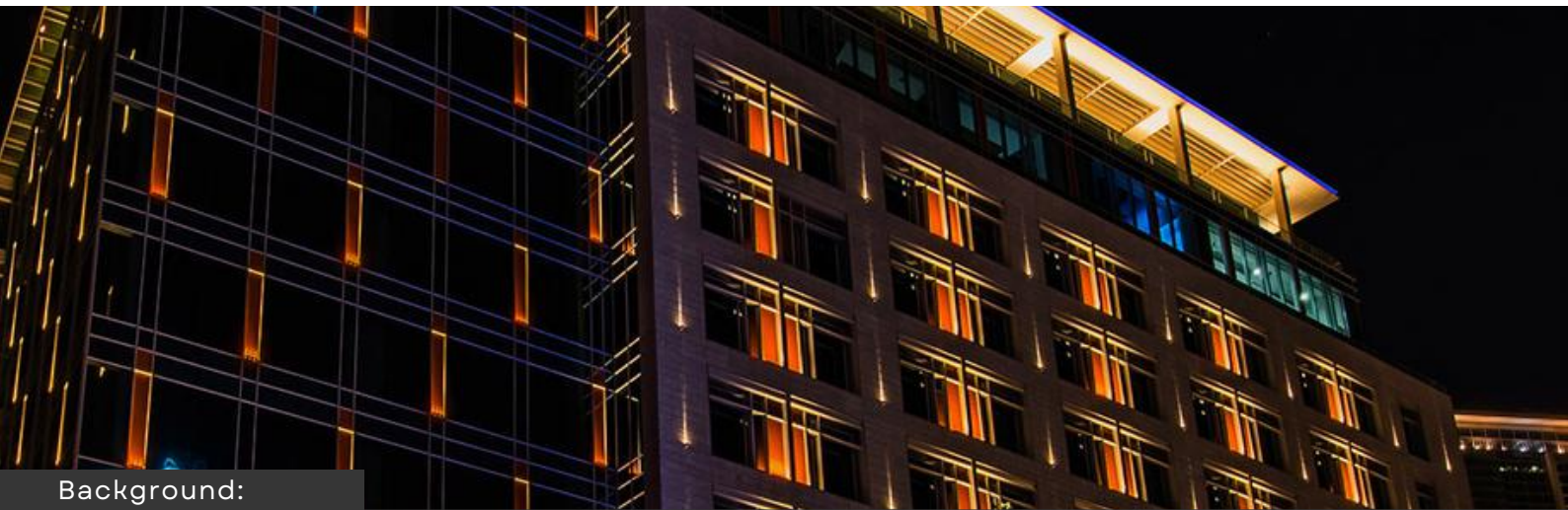
The long length and the nature of the use of the bridge as a public space restricted Zumtobel from using any external fittings to the lights regarding the health and safety regulations. The internal integration of the metal louvred fabric, into the luminaires, therefore, allowed acdc's luminaires to perform as intended whilst meeting the desired effect.

acdc's powerful Fusion LED floodlights were used to graze down the pillars that dominate the skyline at either end of the 35 metre tall bridge. Fusion is an intelligent, highly efficient, IP66 architectural floodlight, which delivers 2000lm in a single colour, colour change, or dynamic white. Despite its small size, Fusion offers high output, and with the introduction of Microlouvre® fabric within each unit, the light can be sharply focused, with strong colour saturation, consistency, and with very little light pollution.



Built to provide services to Dubai's bustling financial hub, The Exchange is designed to create a relaxed, stress free and intimate oasis in the luxurious city. Along with the numerous banks, financial institutions and offices, it was created to be a 'hub of ideas'.

It has also become a culturally vibrant and active community, thanks to the presence of art galleries, excellent restaurants, and high calibre commercial establishments. A correct lighting design was absolutely essential to continue this atmosphere into and through the night.



## Background:

Sustainability was a major factor in completing this project as the lighting designers were keen about implementing a product that would meet all the sustainability requirements set for the building's façade.

Furthermore, light pollution was a concern that needed to be eliminated when applying Linea Light's product with our Microlouvre Koolshade® fabric.

- Facade lighting
- Modern architecture
- Meeting stringent health and safety regulations
- Sustainable product required
- Dubai International Financial Centre

## Outcome:



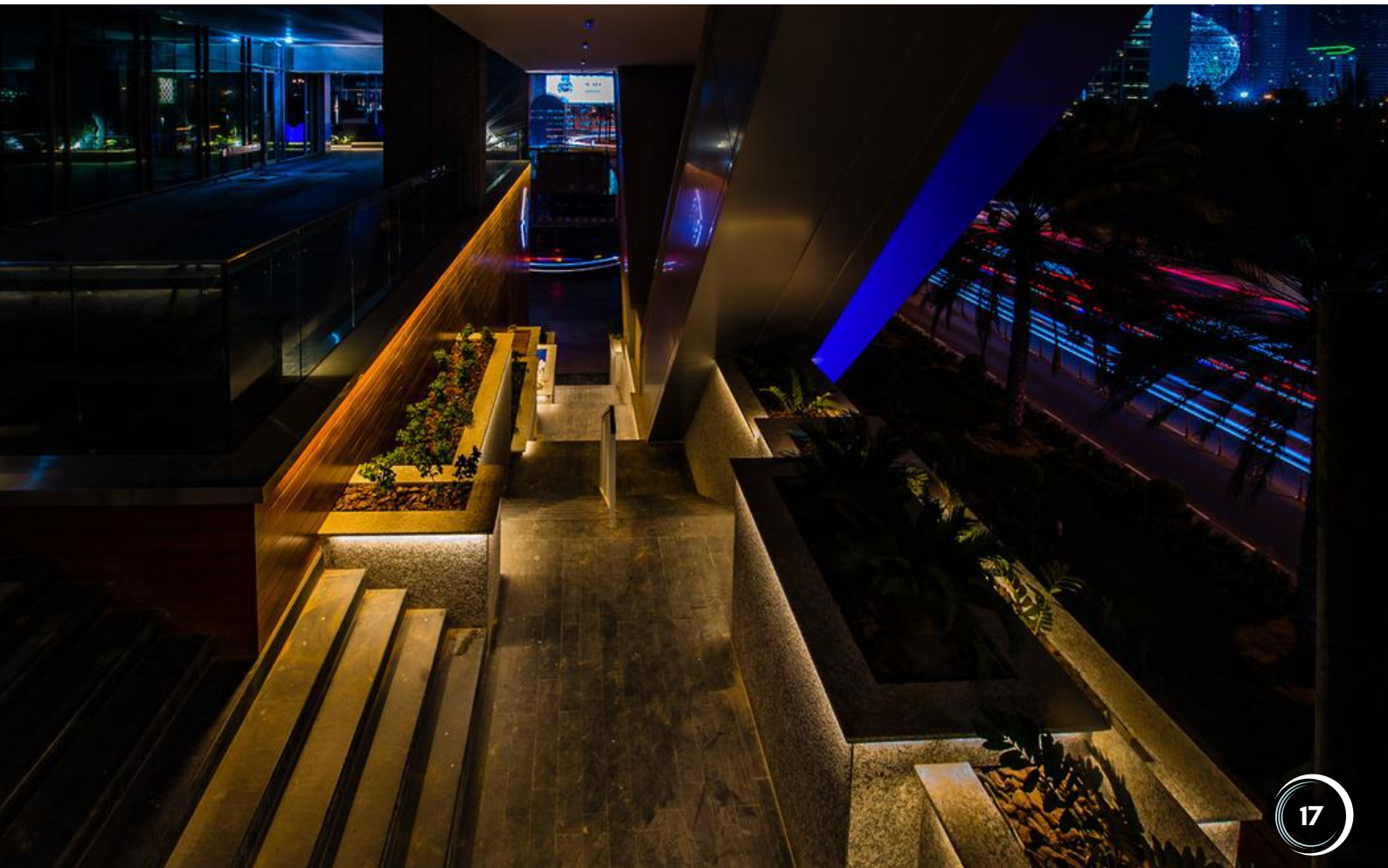
- Directional light control
- Nonexistent light pollution
- Made from +90% recycled copper scrap
- Balanced glare control





On the main façade, delineating the external views, the metal tiny paper thin louvres were integrated into Linea Light’s Xenia and positioned with 8-degree optics, chosen to not impair the internal function of the spaces with any light reverberation.

To tackle the light pollution issue, Microlouvre Koolshade® concentrated the light source in the intended direction, solving the problem of unwanted light trespass and reducing light spill and glare. This essential to protect passers-by from unwanted and hazardous glare from outdoor lighting units.







## Background:

Having become an emblem of the city, the complex was opened on 7 May 1985 with Victory Boulevard on the eve of the 40th anniversary of the Soviet Union's victory in the Second World War. The park is still a place where fallen heroes are celebrated.

There are imposing statues in various areas of the park which pay tribute to their daring loss, without distinction of age and type, accompanied by sculptures including "Glory to the Heroes", which bring light to the incontrovertible symbol of the communist party: the five-pointed star.

## Outcome:



Victory Park, in the city of Omsk, which is one of the biggest monuments of Eastern Russia and an awe-inspiring war memorial, underwent a recent restoration where a sympathetic change in the lighting theme was vital.

The restoration included an entire technical lighting system revamp in order to give the park new lustre through fundamental lighting, suitable for highlighting the project in its entirety.



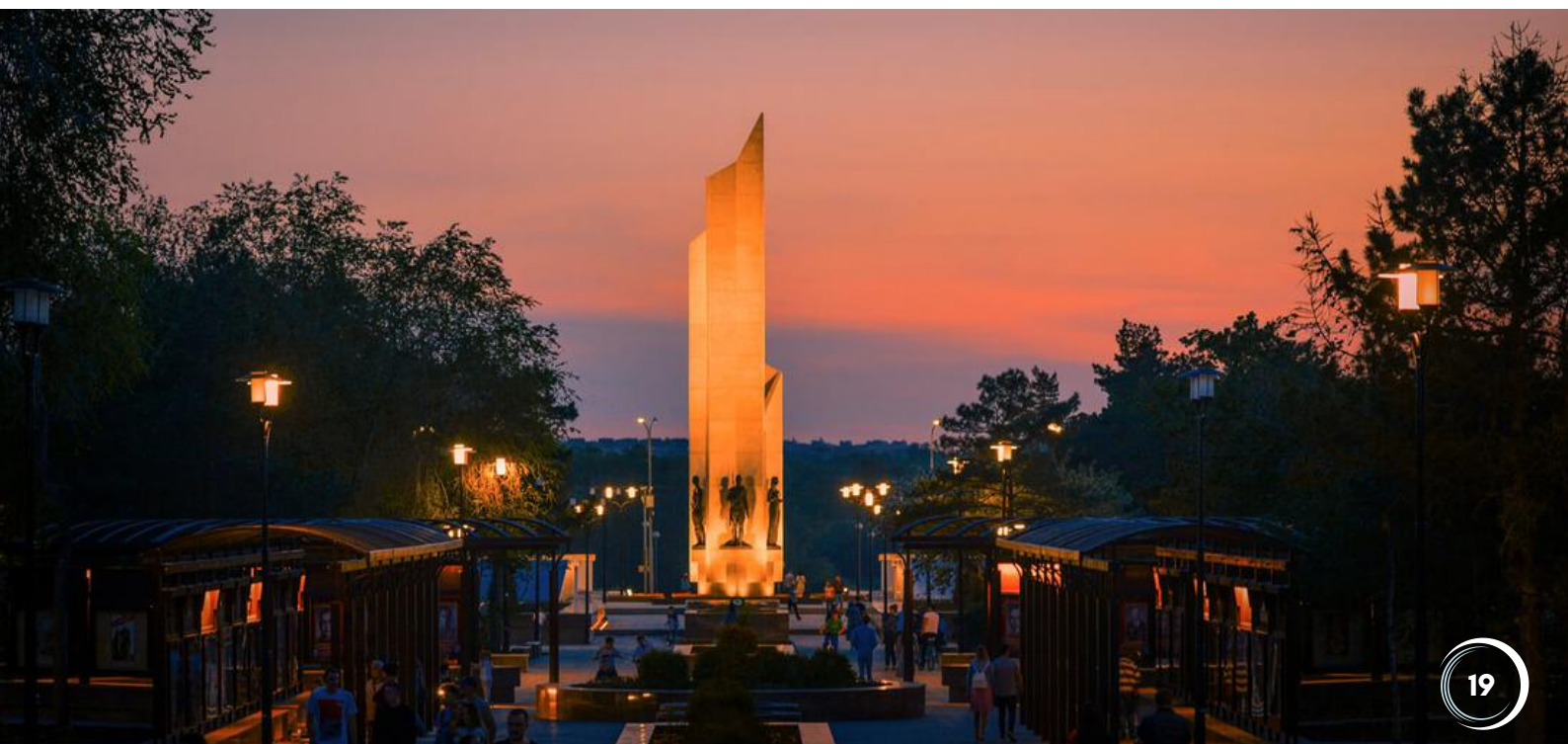
Proceeding down Victory Boulevard, the visual opens up to the “Glory to the Heroes” monument, where Linea Light Group lighting plays a key role in highlighting the imposing sculpture complex. The pondered selection of products with narrow, clear and efficient optics was born out of a desire to create the right lighting to emphasise the entire monument.

Therefore, Archiline\_twin units were also chosen, professional projectors for outdoor use, and four Prolamp units, projectors dedicated to industrial and urban lighting. The latter was supplied in a custom version and enhanced with the addition of directional blades and a beam shaper that allows the excess light to be contained.



What truly sets Victory Park apart is the designer lighting that illuminates the park at night. This stunning work of art is a testament to human creativity and innovation, and it's an experience that you won't want to miss.

As the sun sets over Victory Park, a magical transformation takes place. The designer lighting comes alive, illuminating the surrounding area with a warm and inviting glow. Its unique design creates a mesmerizing display that captivates every visitor.





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