

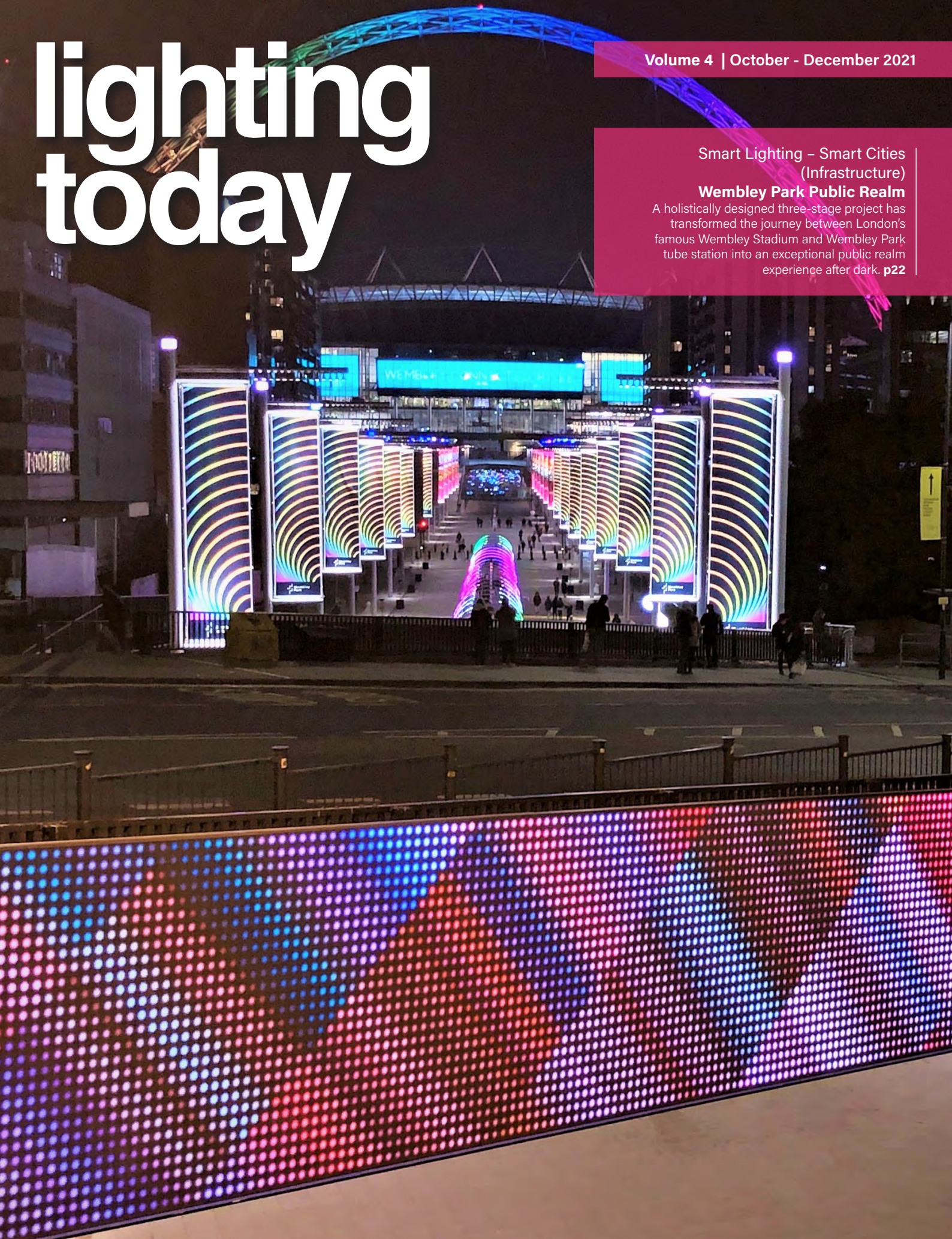
lighting today

Volume 4 | October - December 2021

Smart Lighting – Smart Cities
(Infrastructure)

Wembley Park Public Realm

A holistically designed three-stage project has transformed the journey between London's famous Wembley Stadium and Wembley Park tube station into an exceptional public realm experience after dark. **p22**





ON THE COVER

Wembley Park Public Realm. Photo: © Wembley Park

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ASSOCIATE PUBLISHER
Eric Ooi
eric.ooi@tradelinkmedia.com.sg

EDITOR
Amrita Natverlal
lighting@tradelinkmedia.com.sg

MARKETING MANAGER
Felix Ooi
felix.ooi@tradelinkmedia.com.sg

HEAD OF GRAPHIC DEPARTMENT/
ADVERTISEMENT COORDINATOR
Fawzeeah Yamin
fawzeeah@tradelinkmedia.com.sg

CIRCULATIONS EXECUTIVE
Yvonne Ooi
yvonne.ooi@tradelinkmedia.com.sg

Dear Readers,

Greetings from the Lighting Today team! Welcome to Volume 4, the fourth and last issue for 2021. We hope that you have enjoyed reading all the issues that we made this year and gained some useful knowledge for your scope of work. This issue spotlights the use of lighting for Stage and Events and it is demonstrated through two exciting projects – the Eurovision Song Contest 2021 and Brit Floyd World Tour 2021. In the smart lighting section, we showcase two projects which show how smart lighting products and design can make a city stunning, sustainable, safe for its city dwellers. Read the SOHAR Port and Freezone story and the Wembley Park Public Realm feature for more details. Lastly, the product showcase features some new lighting products which could be useful for your projects. We will now work on the 2022 issues of Lighting Today so that we can bring you some exciting topics and trends to read and discuss. If you have any lighting projects to publish, you can write to me for my consideration. Take care and stay safe!

Amrita Natverlal
Editor

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ISSN 2345-7147 (Print) and ISSN 2345-7155 (E-periodical)

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Wembley Park Public Realm p22



Eurovision Song Contest 2021 p16



Brit Floyd World Tour 2021 p10



SOHAR Port and Freezone p20

contents

03 EVENTS

05 LIGHTING IN THE NEWS

10 LIGHTING PROJECT

- **Stage & Event Lighting:** Eurovision Song Contest 2021
- **Stage & Event Lighting:** Brit Floyd World Tour 2021

22 SMART LIGHTING

- **Smart Cities (Infrastructure):** SOHAR Port and Freezone
- **Smart Cities (Infrastructure):** Wembley Park Public Realm

26 PRODUCT SHOWCASE

Fabian de Brücker joins Ayrton as regional sales manager

Paris, France – Ayrton is delighted to welcome Fabian de Brücker to its dynamic sales team. De Brücker joins Ayrton as regional sales manager for all French-speaking countries and regions with effect from 1 September 2021. Brücker's new role includes responsibility for maintaining a high level of designer relations, as well as promoting and supporting the Ayrton brand across these regions.

Fabian brings a wealth of industry experience having worked with many major lighting brands for over 25 years. He has built an extensive network among lighting professionals, but has developed a particularly close relationship with Ayrton.

"Fabian has always been a great advocate of the Ayrton brand since his days working with Axente, so his joining us is a huge bonus," said Ayrton's global sales director, Michael Althaus. "His years of experience means Fabian has super-strong designer relations in France. We are very proud to have him as the latest addition to our team," added Althaus.

"This is a completely new role for me and I am very excited to join a company I have admired for so long," said de Brücker. "I have represented some of the leading brands in my professional life, but Ayrton occupies a special place, in part due to a great relationship and friendship with Yvan Péard, founder and CTO of Ayrton but, even without that, because Ayrton is the most innovative brand on the market," added de Brücker.



Fabian de Brücker

Current announces the acquisition of Forum Lighting

Cleveland, Ohio, USA – GE Current, a Daintree company (Current) has announced the acquisition of Forum Inc. (Forum), a privately held, Pittsburgh-based architectural linear luminaire company with a 50-plus-year record of high-quality exceptional products and proven manufacturing capabilities. Forum has manufactured lighting for numerous landmark projects, including the World Trade Center Transportation Hub in New York City, Cleveland Clinic and the Roberto Clemente Bridge in Pittsburgh.

This transaction expands Current's architectural portfolio and customization capability, and the additional U.S.-based manufacturing provides greater breadth to its product portfolio for the architectural community. Forum will be able to leverage Current's innovation, capabilities and patents to help fuel future growth for the brand.

"Forum's focus on providing high-quality linear solutions for architects, designers and specifiers makes them the ideal partner to expand our lighting portfolio," said Manish Bhandari, CEO, Current. "Forum's values and customer-centric culture are well aligned with Current. Current will continue to invest in Forum to deliver new solutions, accelerating their growth."

Jonathan Garret, Forum's President,

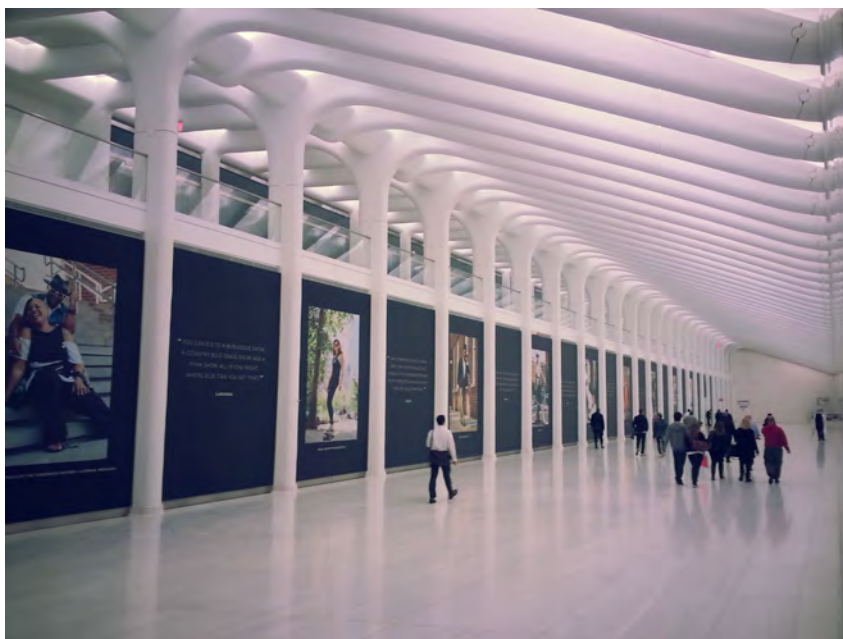


Photo courtesy of GE Current, a Daintree company.

commented, "Current's commitment brings the resources that will enable Forum Lighting to continue building on our success within the specification lighting market. We will be able to expand our product selection and reinforce our commitment to offering flexibility and product variation for specifiers, architects and designers. We are very excited about this opportunity

to advance our operational performance and marketing capability, and we are looking forward to working with the Current team to ensure a successful transition."

Merrimack Group served as financial advisor to Forum, Inc. Dickie McCamey and Fredrikson & Byron served as legal counsel to Forum and Current respectively.

Light + Building Digital Extension: the new digital features of Light + Building 2022

Frankfurt am Main, Germany – Light + Building from 13 to 18 March 2022 will combine the best of both worlds: naturally, the world's leading trade fair for lighting and building-services technology will be held as a physical event at Frankfurt Fair and Exhibition Centre. At the same time, and for a whole week afterwards, it will be possible to visit this meeting place for the sector digitally. From 13 to 25 March 2022, the Light + Building Digital Extension will offer new opportunities for networking, the exchange of knowledge and encounters. During this time, participants will be able to make new contacts, discover innovative products via AI-aided matchmaking, make appointments for web conferences, chat with contacts or take part in the Light + Building complementary programme and events streamed by exhibitors.

“We are beginning with a new format and building a bridge between the physical and digital worlds. Personal encounters are of inestimable value and the heart of our business. And they will continue to be so. Nevertheless, to be able to offer market access to all interested parties, supplementary digital features are now an essential aspect of the programme of all international events,” explained Iris Jeglitza-Moshage, Senior Vice President Technology Shows, Messe Frankfurt. With the new format, Light + Building will bring together demand and supply across all borders, continents and time zones thus benefiting all concerned by making them independent of any



Photo source: Messe Frankfurt Exhibition GmbH/Petra Welzel

travel or other restrictions. The digital platform has three main applications to ensure that everyone finds what they are looking for: on the basis of interests, areas of expertise and language, a digital matchmaking takes place between exhibitors and participants, between the participants themselves and with respect to the programme of events.

For more information on the show, visit <https://light-building.messefrankfurt.com>.

Lumileds' new EU Ecodesign Information Tool makes it easier for light source manufacturers to comply to new regulations

San Jose, California, USA – Lumileds has introduced a first-of-its-kind web-based tool – the EU Ecodesign Tool – that provides detailed LED performance data lighting manufacturers need in order to comply with the European Union's Ecodesign Directive. LUXEON LED users can view the data and a normalised spectrum on screen or choose to download a .csv file containing the same data seen on-screen.

Lumileds' new EU Ecodesign Tool supports lighting

PART DETAILS	
Product Family	LUXEON 2835 Architectural
Sub-Family/Sub-Group	LUXEON 2835 HE IV
Part Number	L128-2795HA35000B1
Type CCT (K)	2700K
Min CRI	95
Driving Current (mA)	65
Dimming (function)	
Temperature (°C)	25
Color target in scope (yes/no)	Yes
Min RP	50
DIS (yes/no)	No
Beam angle (deg)	N/A
Fraction of flux in defined cone	N/A

The graph shows a normalized spectrum with a peak at approximately 590 nm and a secondary peak at approximately 450 nm. The x-axis represents wavelength in nm (250 to 830) and the y-axis represents normalized flux (0.0 to 1.0).

manufacturers that must comply with two new regulations taking effect September 1, 2021. Regulation 2019/2020 (on Ecodesign) establishes a set of performance requirements for light sources and Regulation 2019/15 (on Energy Labeling) specifies information that must be provided to consumers. Compliance with both regulations is required as of September 1, 2021.

“Suppliers of light sources for the EU market must comply with Ecodesign and Energy Labeling regulations that include the declaration of various parameters that relate directly to the properties of the LED packages used in the light source,” said Dr. Wouter Soer, Director, Illumination Product Development. “Suppliers need this LED package information in order to determine the declared values for their light source. Though most of the relevant LED package information can be found in the respective product datasheets, Lumileds new Ecodesign tool provides additional information to give a full description of LED package properties relevant to the regulations,” added Dr. Soer.

Users can quickly search on a partial or full part number. Each on-screen report details 16 key parameters and presents a graph of the normalized spectrum for the part. The accompanying .csv file contains the same 16 parameters as well as the raw data of the normalized spectrum.

Lumileds new EU Ecodesign Tool is live on the company's website and can be accessed by anyone at any time.

Preciosa Lighting creates a dynamic lighting installation for LAX

Prague, Czech Republic – The curve of a wave, the sparkle of crystal... such simple elements inspired Preciosa Lighting's latest statement lighting installation. Named Crystal Swell, it can be experienced in the recently opened West Gates at Tom Bradley International Terminal at Los Angeles International Airport (LAX).

"We knew that this space would be the front door of the building, so we wanted something very dynamic and dramatic," said Brent Kelley, Managing Principal and co-head of the aviation sector at Corgan, the award-winning firm responsible for the project's architectural and interior design services. "We were looking for something that would attract passengers and be visually interesting. The installation is a perfect complement to the design of the facility."

Crystal Swell spans three levels and is inspired by an ocean wave breaking on the nearby ocean shore. It combines the simplicity associated with the "mid-century jet age" modern design of the International Terminal and the structural requirements needed to meet the stringent seismic codes developed for installations of this nature.

Sarka Olivova, a senior member of Preciosa's design team, was challenged



The dynamic installation stretches 17 metres. Photo: © Preciosa Lighting

with the creation of a dazzling design that would also satisfy Preciosa Lighting and the airport's safety requirements. The Preciosa engineering team, led by Radek Pytlik, had to ensure that any issues pertaining to the lighting's installation would be addressed and that an earthquake would not impact the fixture's structural integrity.

"We worked with where and how

to anchor the luminaire so that the design aspect would be preserved," Ms. Olivova explained. "We decided on three intertwining ribbons. The engineering team calculated the best possible placement of anchor points and how to prevent the prisms from breaking in case of an earthquake."

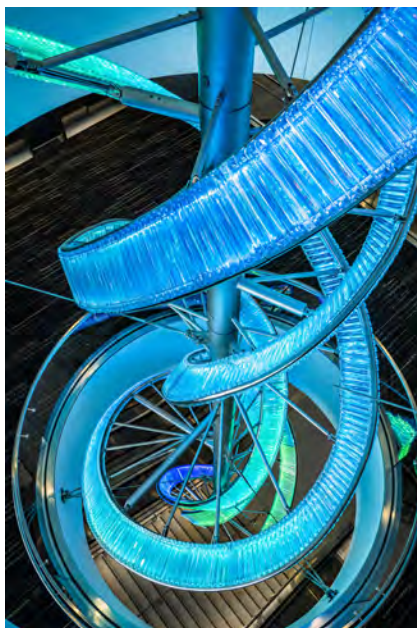
Preciosa's R&D team conducted modal, spectral, and gravity tests in a variety of severe environmental conditions using specialized testing equipment in the company's state-of-the-art Innovation Lab. The Lab also features a dark room and advanced electronic systems to create interactive elements for lighting installations.

"Calculations, simulations and testing, all in accordance with seismic active areas, were the three most important aspects the engineering team contributed to this project," said Mr. Pytlik. "We completed extensive research and faced a number of challenges regarding the marriage of the fixture's design with its functionality."

"This installation is really the perfect complement to the entire design of the facility," said Mr. Kelley. "We were looking for the space to be filled with something that would attract passengers, that would be visually interesting to passengers, that they would look at and think, 'that's an iconic piece.'"



Crystal Swell viewed from below. Photo: © Preciosa Lighting



Crystal Swell's brilliant curves. Photo: © Preciosa Lighting

Quantela acquires CIMCON Lighting

Burlington, Massachusetts, USA – Outcomes-as-a-Service forerunner, Quantela announced that it has acquired CIMCON Lighting, Inc., a leader in smart lighting and smart city technologies. This acquisition will provide Quantela with full coverage and access to the ubiquitous streetlight pole infrastructure to deploy innovative technologies and improve societal, and economic outcomes.

“The acquisition of CIMCON Lighting gives Quantela the opportunity to access the streetlight pole infrastructure used to deploy CIMCON Lighting controllers,” said Sridhar Gadhi, Quantela’s Founder and Executive Chairman. “More importantly, the costs savings realized through the deployment of these controllers improves the commercial viability of the digitization business case, and therefore, improves Quantela’s ability to deliver better outcomes to customers. The acquisition will provide existing and future customers with the security of a larger company, with more economies of scale, larger and more diversified talent, plus even more valuable outcomes.”

“Quantela helps communities improve quality of life by providing technology enabled outcomes to its customers,” said Amr Salem, Quantela’s CEO. “These outcomes are realised in the form of incremental revenue or cost savings. Outcomes are powered by real-time data and predictive analytics from applications like digital advertising, traffic management, smart parking, public wi-fi and waste management to help communities achieve their goals. The addition of CIMCON Lighting’s smart lighting capabilities will enable communities to immediately reduce streetlight



Mr. Amr Salem, CEO,
Quantela Inc.



Mr. Sridhar Gadhi, Founder
and Executive Chairman,
Quantela Inc.

energy consumption and maintenance costs.” He added. Quantela further supports communities through Outcomes-based Financing, a funding vehicle that helps communities invest in projects through cost savings and revenue generation from the implementation of smart technologies.

This acquisition comes on the back of US\$ 40 million growth capital raised by Quantela in June 2021 from its investor Digital Alpha Advisors, LLC for funding outcome-based projects, expanding its global presence faster inorganically and creating greater impact for societies.

Xicato and amBX announce strategic partnership

Los Gatos, CA and Stanley, UK – Xicato, a leading provider of Bluetooth smart building wireless controls and highest quality spot and linear light sources, and amBX, developer of unique and innovative lighting controls software that enables smart buildings, announced a strategic partnership to integrate Xicato’s smart wireless controls with amBX SmartCore lighting control software. The strategic partnership offers the smart building industry a complete intelligent and wireless solution that includes lighting, sensor and data management within one unified and simple to use platform eliminating the need for separate control systems by functionality.

“The integration of the amBX SmartCore lighting control software with the Xicato Intelligent Gateway provides new opportunities for specifiers, designers and installers of smart lighting systems, uniting two highly innovative solutions into one single platform,” said Andre Jutel, Business Development Manager at amBX.

“Wireless connected Xicato devices can now be used with the powerful amBX SmartCore lighting software system delivering reporting and visually representative operational data in real-time,” said April Mitchell, VP of Channel Marketing.

Xicato’s Smart Controls and amBX SmartCore, in



partnership, delivers new levels of control with complete data aggregation in one solution that is fast and easy to commission, offering substantial cost savings over many traditional lighting control solutions on the market today. Detailed lighting control by room, floor, building, and campus is now realised, combined with dynamic real-time data aggregation across the entire lighting network.

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Organised by Conference & Exhibition Management Services (CEMS), the 7th Lighting Asia 2021 is one of seven key pillars for the Architecture & Building Services (ABS) exposition, an annual all-embracing three-day show that brings together illuminating products and solutions for Asia's built environment.

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Brit Floyd World Tour 2021

Colorado, USA

PROJECT NAME

Brit Floyd World Tour 2021

CLIENT

CMP Entertainment

LIGHTING DESIGNER

Mark Jacobson

LIGHTING PRODUCTS

Elation Professional Rig

COMPLETION

2021



Above image: Photo by Patrick Kealey.

Left image: Photo by John Benson.



*Elation Professional helps
recreate iconic Pink Floyd looks
on Brit Floyd World Tour 2021.*

Forced from the road in early 2020 due to the pandemic, Brit Floyd, 'The World's Greatest Pink Floyd Tribute Show,' is back after kicking off a world tour July 29th at Red Rocks Amphitheatre in Colorado beneath an all Elation lighting rig.

Brit Floyd World Tour 2021 includes highlights from *The Wall*, *The Dark Side of the Moon*, *Wish You Were Here*,

Animals and *The Division Bell*, and features a note-for-note performance of the epochal song *Echoes*. With their avant-garde lighting, graphics, props and sound effects, Pink Floyd has provided some of the most memorable stage moments in rock 'n' roll. No other band recreates the sound and look of Pink Floyd's live shows like Brit Floyd.

The tour is produced and promoted by UK-based CMP Entertainment, who own and supply all of the Elation gear. Elation has enjoyed an excellent relationship with CMP over the years and many of Brit Floyd's past tours have featured Elation gear. Chas Cole of CMP Entertainment commented: "Eric Loader was supportive of Brit Floyd in its early days with great product at a great price and even though we've worked the equipment really hard it's held together really well and allowed us to produce a great light show year after year."



Photo by Patrick Kealey.

Collective design

Many have had a hand in shaping the Brit Floyd look over the years, a design that echoes Marc Brickman's original and classic Pink Floyd designs of yesteryear. Mark Jacobson has been designing lighting for Brit Floyd since their 2019 tour and says there is no single designer for the show but has been the work of several designers over many years. "That would include Dave Hill and Jake Whittingham, along with Mark Jones Roberts, who is out with the current tour, and myself," said Jacobson. "The show numbers are well-known Pink Floyd classics that have been around now for quite some time and the lighting frame structures of those songs were created before I got involved."



Photo by Scott Margolin.

Photo: © Louis



Photo by Scott Margolin.

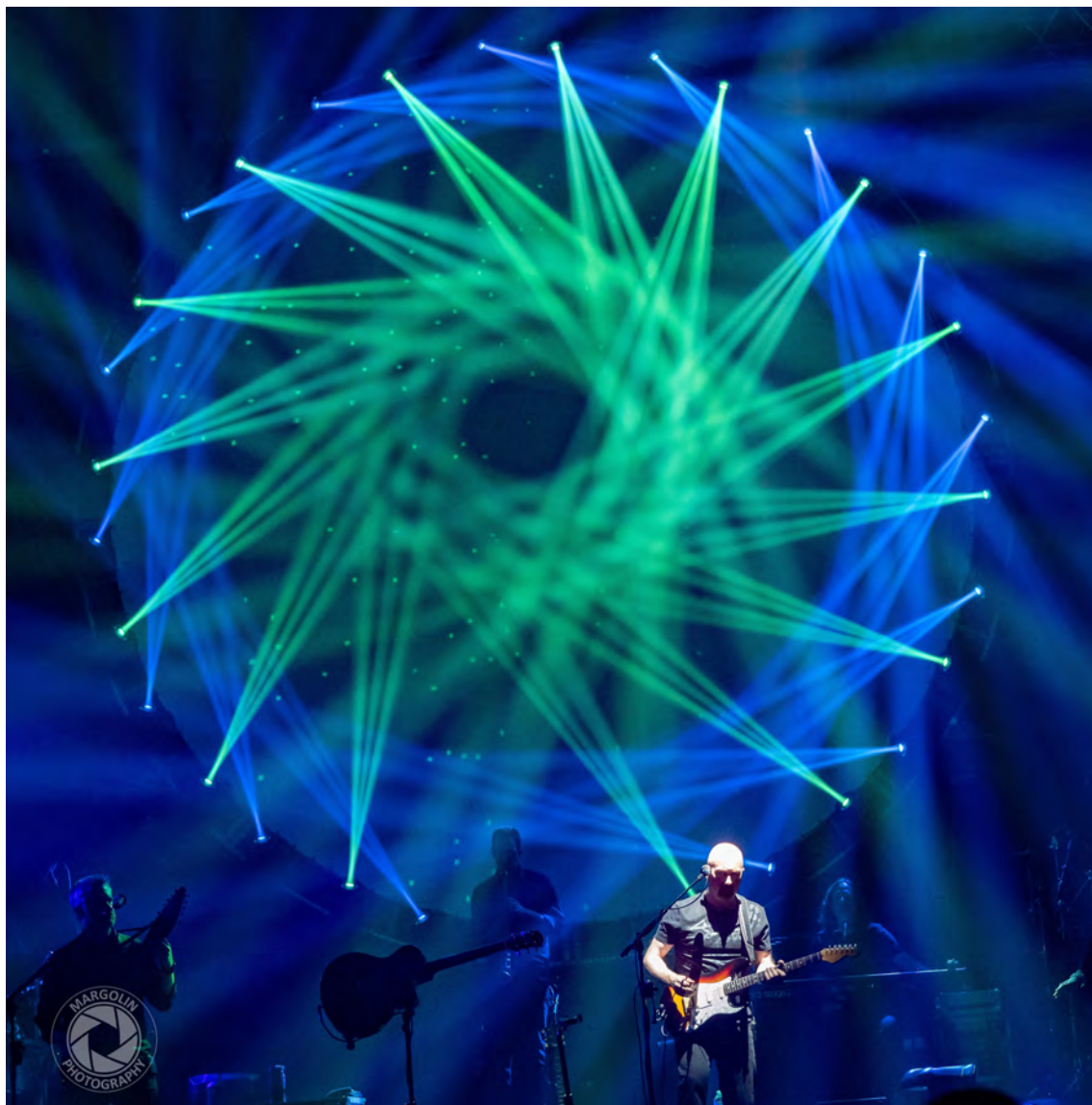
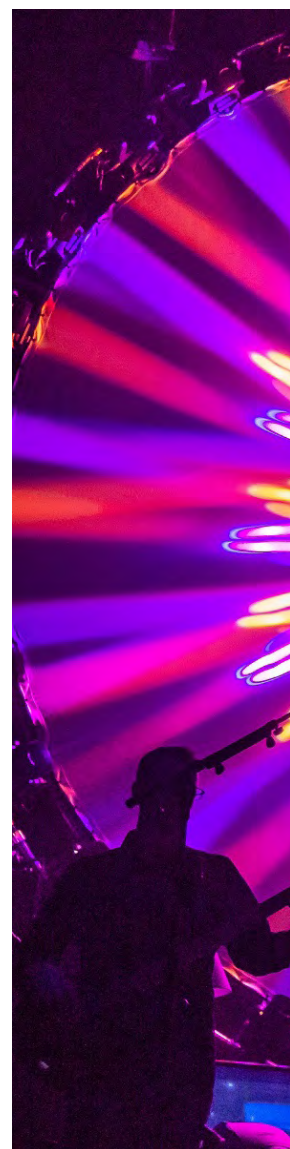


Photo by Scott Margolin.



Authentic Pink Floyd looks with new technology

Jacobson says that band musical director/guitarist/singer Damian Darlington, along with Chas Cole of CMP Entertainment, serve as “the gatekeepers,” making sure everything is authentic, including the lighting. “Ultimately the lighting is paying tribute to Pink Floyd in the same way the band is paying tribute – it has to look like a Pink Floyd show. That is the overall directive and that’s what people come to see. As great as a new look might be, fans don’t want to see something that looks like some other band. It has to look like something Pink Floyd would have done but we do it using this new technology,” said Jacobson. The designer says the main directive of reference for the Pink Floyd look was from 1986-1994 tours - *Momentary Lapse of Reason*, *Delicate Sound of Thunder*, and *Division Bell*. Even when the band decided to cover songs they hadn’t done in a while, they sent Jacobson videos that showed how the look used to be.

Iconic circle truss with DARTZ, no arch

Nevertheless, some things do change. In December 2019, the decision was made to drop the emblematic arch truss

design yet keep the iconic circle truss. The arch and circle stems from the early 90’s *Division Bell* tour and was part of Pink Floyd designs for years. The circle truss can trace its origins back to Pink Floyd shows of the 1970s. “The directive was to change it more to what David Gilmour has gone with visually in recent years, which is one large circle truss with more fixtures on it without the arch,” said Jacobson. “That led to the decision to fill the circle truss with 32 Elation DARTZ 360™ and we added Smarty Hybrids™ and Protron 3K Color™ LED strobes to the rig as well. The starkness of the circle without the arch allows for more dark space and more room for contrast,” he added.

Previous designs had a smaller amount of fixtures on the circle truss, namely 16 Platinum Beam 5Rs™. The added number opened up new possibilities. “Doubling the amount of fixtures on the circle truss allowed us to do some Pink Floyd effects that we had seen pictures and video of but that we really couldn’t achieve with only 16 lights.”

The DARTZ, with their 3-degree aperture, gobo set and full 360-degree rotation, allow for remarkable effects on the circle truss cyc. For Jacobson, the iconic circle truss forms a part of his history and creating those circle looks has become

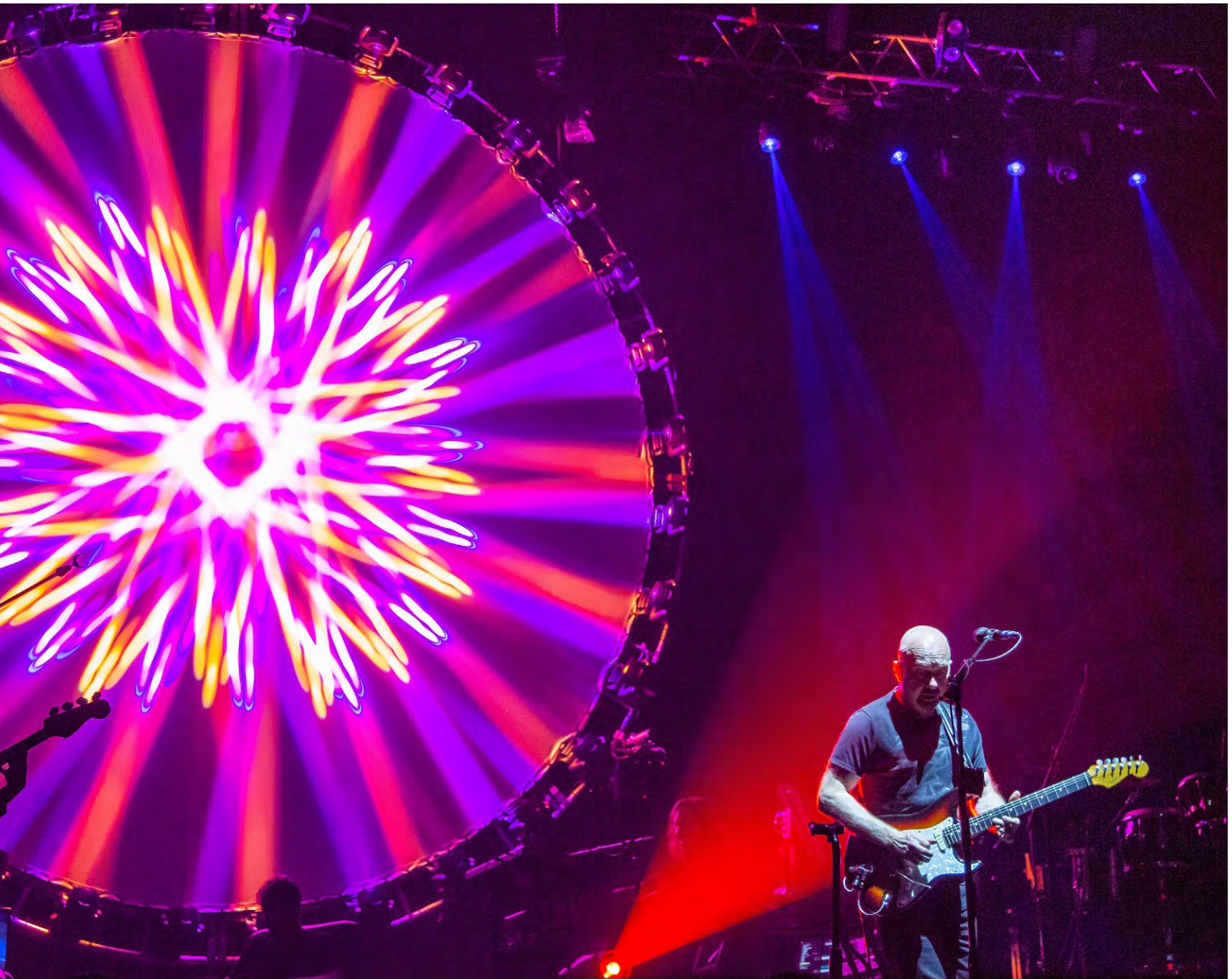


Photo by Patrick Kealey.

his favourite part of doing the Brit Floyd show. “I got started in lighting in the late 80’s, and like many lighting people of the time, I was a fan of what Pink Floyd were doing on their *Momentary Lapse of Reason/Delicate Sound of Thunder* tour. As far as I know it was the first use of moving fixtures on a circle truss in the way that they did it, and I spent hours and days thinking about what a simple idea that was with so many possibilities. And they did all of those looks in a time when effects engines didn’t exist!” he said. Jacobson added he also has a penchant for harsh angles on solo lights, “projecting almost straight down onto performers,” which he says has always been a Pink Floyd trademark.

Full Elation rig

The lighting design for the mostly time-coded show is consistent with that of the shortened 2020 outing with a few adjustments made before the tour launched. Besides the circle truss of DARTZ, Smarty Hybrid™ spot/beam/wash units populate back and side trusses with more at a floor position. Platinum 5R Beams™ work from straight trusses up in the air while Platinum 5R Beam Extremes™ provide big aerial effects from floor positions. Platinum FLX™ on

front truss provide profile looks while ACL Bar 360s™ work from ground towers. ZW19™ beam/wash effects and Chorus Line 16™ pixel bar washes add colour and effect. Protron™ strobes, both white light and colour versions, and Cuepix Blinder WW2s™, provide pupil-constricting flares of light.

Handling U.S. tour support in the form of a 24-count motor package with distro and cabling, along with professional tour labor support, is Performance Lighting of Chicago. The company has been part of Brit Floyd branding since 2011 when they provided lighting support for the US tour. Performance Lighting President Russell Armentrout reflected: “We subbed their original lighting requirements and provided the tour with 40 Elation Platinum 5R Beams for the iconic circle truss and 14 Elation Design 1200C lights. That was the introduction to Elation Lighting! After that, Chas decided to purchase lighting and the rest is history,” he added.

Brit Floyd World Tour 2021 continues to celebrate one of rock’s most significant acts and has been getting excellent response from eager audiences at each stop. The tour continues through the eastern and Midwest US until mid-September with a European leg scheduled to kick off in the fall.



Eurovision Song Contest 2021

Rotterdam, The Netherlands

PROJECT NAME

Eurovision Song Contest (ESC) 2021

LOCATION

ESC 2021 Technical Partner: Ampco Flashlight
in Utrecht, the Netherlands

LIGHTING DESIGNER

Henk-Jan van Beek

LIGHTING PRODUCTS

Claypaky Xtylos fixtures

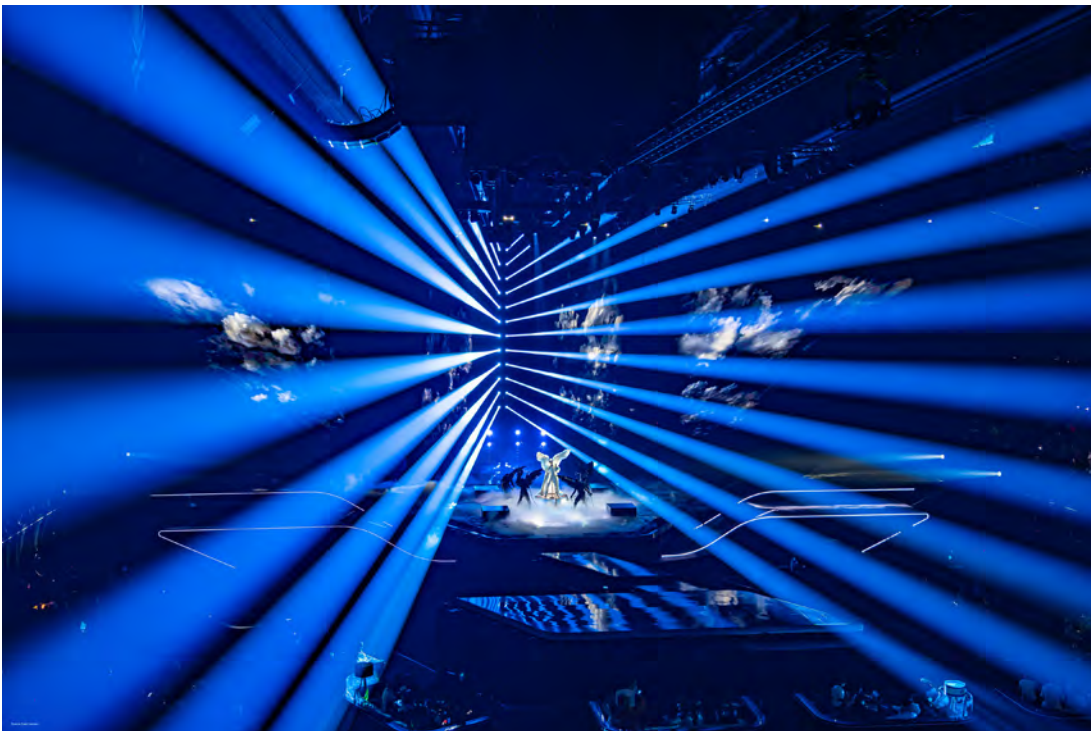
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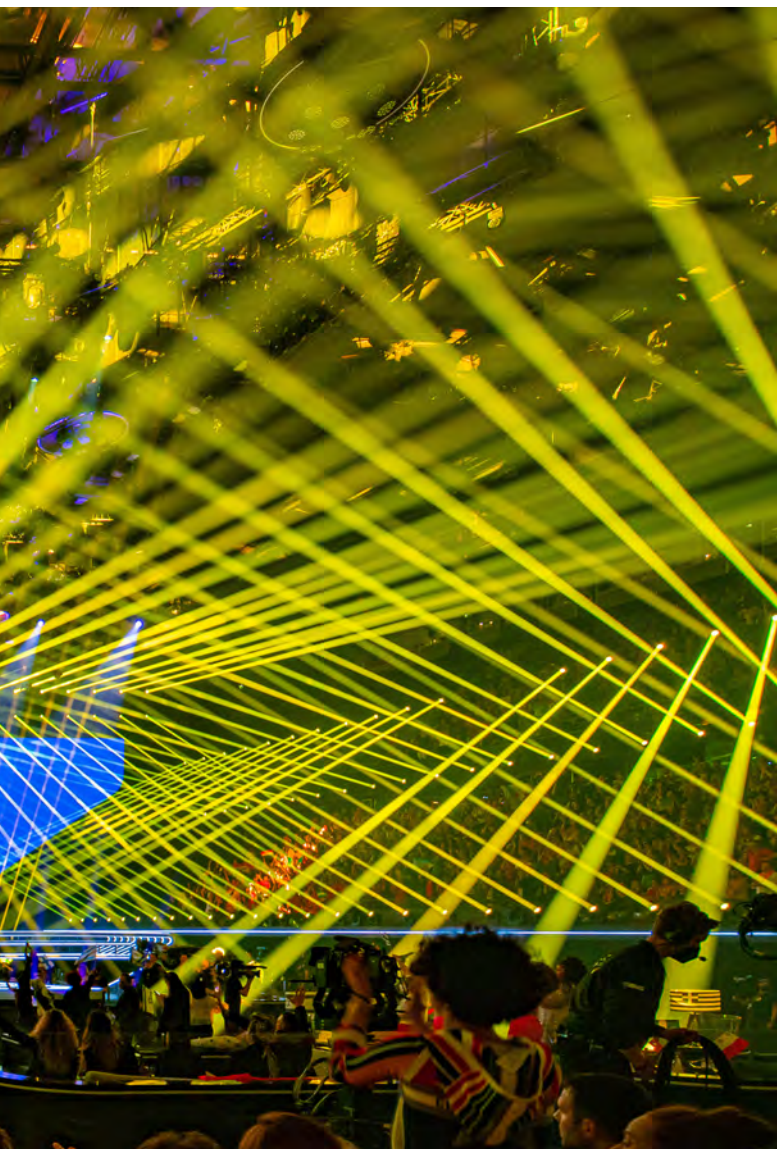
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PHOTOS

© Ralph Larmann/NPO/NOS/AVROTROS







Lighting designer Henk-Jan van Beek has utilised almost 500 Claypaky Xtylos for Eurovision Song Contest 2021 in Rotterdam.

After being cancelled in 2020 due to the coronavirus pandemic, the Eurovision Song Contest returned for 2021 (ESC 2021) with a limited live audience of 3,500 at the Rotterdam Ahoy venue in The Netherlands where lighting designer Henk-Jan van Beek deployed almost 500 Claypaky Xtylos fixtures.

Claypaky is part of the multinational company Osram and a worldwide reference brand in the professional lighting industry. Claypaky lights are used in top productions in the theatre, television, live events, the fashion world, fairs and exhibitions, and are installed in the best clubs, bars, theme parks, shops, conference rooms and architectural environments.

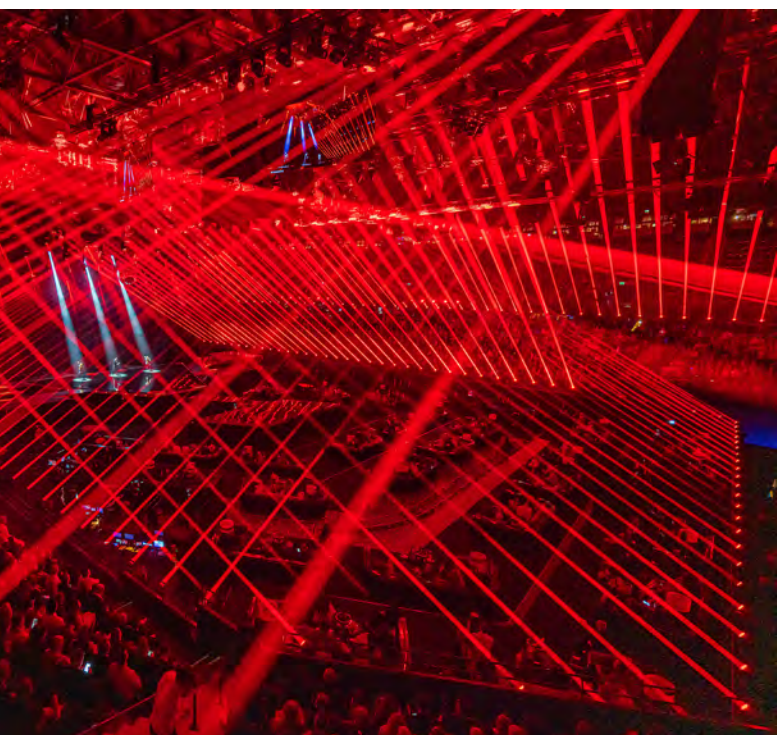
The 65th edition of the popular competition was held May 18, 20 and 22 with 39 countries participating and Italy's Maneskin winning for the song, "Zitti e buoni." The ESC 2021 was produced by The Netherlands' host broadcasters NPO, NOS and AVROTROS on behalf of the European Broadcasting Union (EBU), the world's leading alliance of public service media. OSRAM, the parent company of Claypaky, was the official lighting partner of the ESC 2021 and, as in past years, contributed to the event by illuminating a key building in the host city of Rotterdam.

Ampco Flashlight in Utrecht, the official technical supplier for the ESC 2021, provided the Claypaky Xtylos, a compact beam moving light with unique optical and chromatic characteristics, making use of a tailor-made RGB laser source. This laser source, lasting for 20,000 hours, is the powerful engine of an incredible array of colours: In contrast to the subtractive mixing used with discharge lamps, coloured light beams are extremely bright. The beam aperture can be steered in the range of 1°-7°.

Lighting Designer van Beek of Light-H-Art in Ermelo, built on Production Designer Florian Wieder's set design inspired by the flat Dutch landscape and its low horizons, with long, low parallel lines – a perfect match for Xtylos and the very long parallel lines it can project with its laser engine.

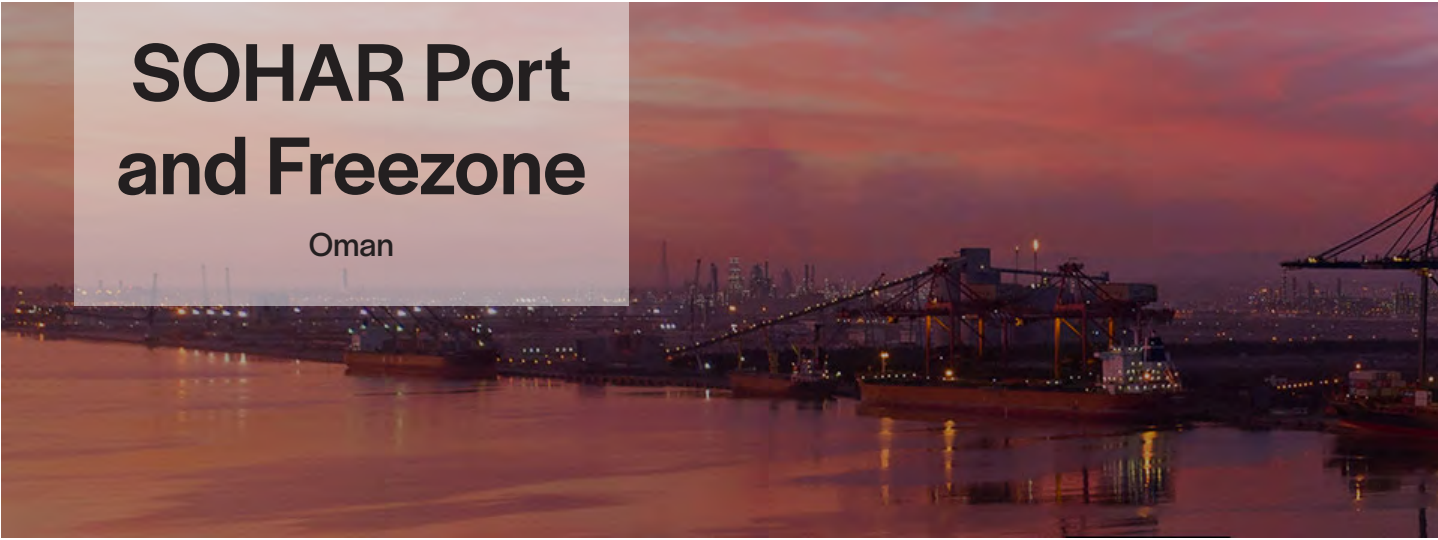
"The advantage of using 481 Xtylos was that we could do a lot of different looks," he said. "There were 39 different set ups, and a range of looks was required depending on the song. Xtylos could be very big and grand and also intimate. The main advantage was the punch of the fixture. And we still had the narrow beam with powerful colour loops – perfect for outdoors and big venues."

Eurovision Head of Production Erwin Rintjema, who is Managing Director of Sightline Productions, pointed out that the team was "lucky to get so many Xtylos, which gave us the lines we needed and could be used for so many looks. The lights worked amazingly – such a sharp beam, very strong: a Sharpy on steroids! And the speed of the movements really impressed us. Xtylos really pushed the boundaries."



SOHAR Port and Freezone

Oman



Panoramic view of SOHAR Port.

Tvilight's CitySense Plus and CityManager were deployed at SOHAR Port and Freezone in Oman to help the authorities achieve their sustainability goals while improving road safety and enhancing operational efficiencies.



SOHAR Port Freezone

As Oman's largest seaport and free zone, Sohar plays an important role in bridging the economics between Europe and Asia. Still growing, in the near future, all eyes will be on it as it focuses on sustainability, safety and an ideal hub for intercontinental trade and commerce. With the help from Tvilight and its partner Mustafa Sultan Enterprises, Sohar wished to become the first modern, safe and sustainable seaport in the Middle East with intelligent light-on-demand (adaptive) street lighting system.

Solution

Conventional street lights were already replaced with

LED street lights by the port authorities. Equipping LED street lights with Tvilight's innovative motion sensors and intelligent outdoor light controllers, which enabled connected lighting system, however, began and completed in 2020.

Tvilight also offered an intuitive and feature-rich central management platform (CityManager) to the port authorities, which enable effortless monitoring, management and control of each luminaire from a centralized location. Thanks to the Open APIs, CityManager also opens up the possibility for port authorities to easily integrate third-party applications, whenever the need arises.



SOHAR Navigate



SOHAR Port



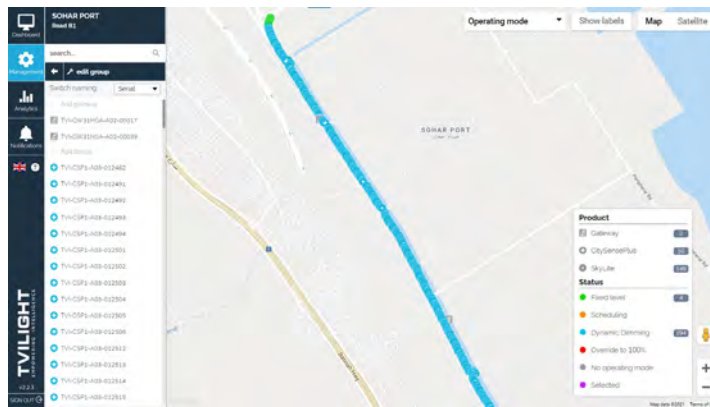
Empowering Intelligence

With innovative street light motion sensors, smart outdoor controllers, and an intuitive light management platform from Tvilight, the port authorities are able to provide just the right illumination, at the right time, at the right place, enabling:

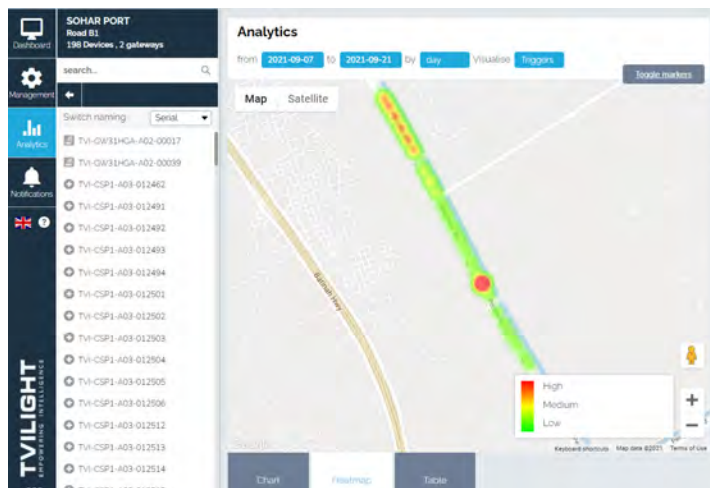
- Significant improvement in public and traffic safety
- Exceptional energy savings
- Cut in electricity wastage
- Reduction in carbon emissions and light pollution
- Decline in operational and maintenance costs

Further, by employing Open APIs-based CityManager platform, the port authorities have the freedom to incorporate necessary third-party applications easily.

Motion sensor, Open APIs-based intelligent street lighting solution truly empowers Sohar Port and Freezone to become modern, safe and sustainable.



SOHAR port devices



SOHAR port heatmap



SOHAR port savings

PROJECT DATA

Project Name: SOHAR Port and Freezone
Location: Oman
Client: Sohar Port
Lighting Products: Tvilight's CitySense Plus and CityManager
Completion: 2021
Photos: © Sohar Port and Freezone, ©Tvilight
Completion: 2021
Photos: © LaaS



Wembley Park Public Realm

London, UK

Lighting design by Speirs Major has created an exceptional after dark experience for the Wembley Park public realm. Photo: © Wembley Park

A holistically designed three-stage project has transformed the journey between London's famous Wembley Stadium and Wembley Park tube station into an exceptional public realm experience after dark.



Elegant bespoke columns deliver adaptable lighting and create a strong linear perspective that contributes a sense of processional grandeur. Photo: © James Newton



Dimming of selected fixtures crafts the distribution required for each day or occasion. Photo: © James Newton



The optic that controls the downlighting to the banners also delivers rhythmic pools of light beneath each column.
 Photo: © James Newton



Their immense technical infrastructure means that each column can support up to one tonne of equipment, allowing digital banners to be installed in the future for live content and updates.
 Photo: © James Newton

Connecting the station to Olympic Way, the Bobby Moore Bridge underpass has become a positive immersive experience through a blend of media and light art that envelops users in light. Bespoke columns frame the Olympic Way, supporting celebratory banners and delivering precision-engineered flexible lighting. The recently completed final stage saw the tiered set of steps at the entrance to the stadium become a glowing vertical plane of light, capping off the main vista from the boulevard with an impressive visual welcome.

From enhancing the high-level buzz of crowded football match days to creating an appealing, secure ambience for residents day-to-day, a flexible lighting approach to the central axial route was essential. To deliver this, Speirs Major collaborated with architect Dixon Jones to design multi-purpose bespoke columns, providing tailored lighting distributions that support an appropriate atmosphere for a particular day or occasion, while meeting the agreed lighting standards. At 13.5 metres high, each column currently supports a lit banner and five different projector types along a 4.5 metres outreach arm. Engineered to support up to one tonne of equipment, digital banners for fully



Each of the projector types has a unique optic, selected based on detailed lighting calculations and testing.
 Photo: © James Newton



Low resolution screens and dynamic lighting slots allow content from the media screens on the fascias to appear to flow into the underpass.
Photo: © Chris Winter

immersive live content are a possibility in the future.

At the station end, residents and visitors pass beneath Bobby Moore Bridge when arriving and departing. Previously neglected and unwelcoming, the client required high-definition media advertising screens on the fascias at each end. Given these factors, Speirs Major focused on how the lighting

design could incorporate the screens and transform the whole space into a positive experience. Their concept sees the entire underpass become a medium for dynamic content, adding low-resolution media screens to the interior walls and dynamic illuminated slots into the ceiling. The wrap-around effect creates the sensation that an abstracted version of the media content flows into the

tunnel. The content becomes a form of light art that envelops users, successfully incorporating the advertising into an immersive brand experience.

At the stadium end, the demolished original 'pedway' has made way for an elegant new terrace of steps connecting two new plazas, top and bottom. The steps and plazas are lit from rows of projectors mounted vertically on

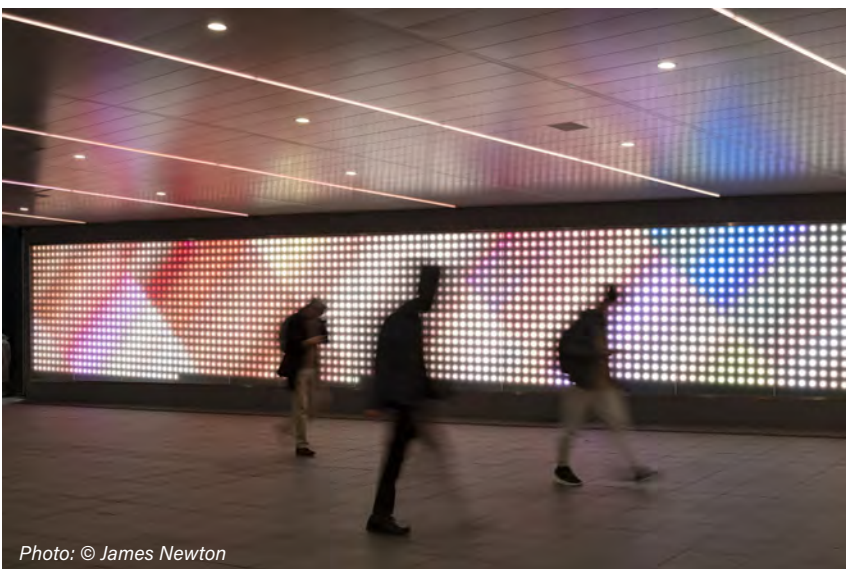


Photo: © James Newton



Photo: © The Light Lab



Photo: © The Light Lab

Abstracted content becomes a form of light art that creates an immersive experience for users of the underpass.



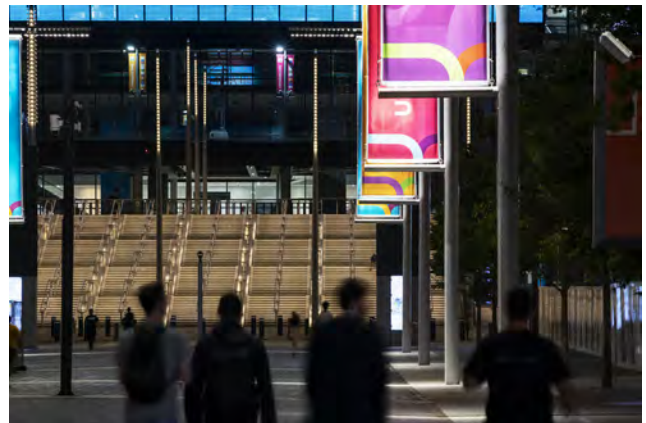
The 'wrap-around' effect of the lighting creates a more welcoming environment and positive arrival/departure experience. Photo: © The Light Lab



The tiered steps glow, welcoming and guiding visitors into the Stadium. Photo: © James Newton



The view from the top plaza along Olympic Way is framed by light to support easy wayfinding. Photo: © Alex Bland

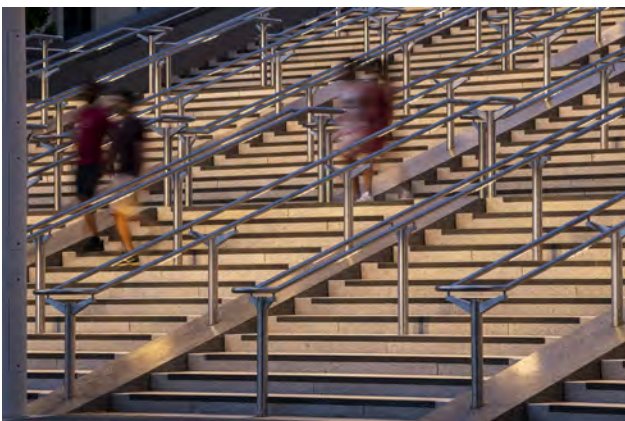


A careful balance of light and darkness with a focus on vertical illumination creates character while ensuring people are safe and feel secure. Photo: © James Newton

16 metres and 12 metres tall masts (respectively). In combination with a controls system, the light levels are easily adapted to meet the changing demands for public safety and ambience in response to the time of day and volume of users.

Additional lighting is integrated into the handrails, At the tip of each mast, an RGBW colour changing beacon creates a colourful visual link to events and matches when desired. Beneath the steps, a new public space is flooded with natural light from a series of roof

lights. As daylight fades, fixtures cross light the inclined internal surfaces to reflect light into the space, boosted by additional downlighting. From the plaza above, the disc-shaped domes of the roof lights appear to glow, gently animating the scene.



Additional lighting in the handrails ensures high levels of uniformity across the flights of steps, ensuring public safety even on crowded on event days. Photo: © James Newton

PROJECT DATA

- Project Name:** Wembley Park Public Realm
- Location:** London, UK
- Client:** Quintain Limited
- Lighting Design:** Speirs Major (Mark Major, Hiroto Toyoda, Philip Rose, Jaime Fuentes McGreevy, Martin Firera Allesandri)
- Architect:** Dixon Jones
- Landscape:** Gross Max
- People/Crowd Movement Consultants:** Movement Strategies
- Artist:** Tom and Miriam
- Main Suppliers:** Urbis Schreder, ewo Lighting, Stoane Lighting, LightLab, Pharos

A Human Centric Lighting downlight system: the new Iku recessed downlights from ERCO

Lüdenscheid, Germany – People and their activities are the focus of lighting design. As a consequence, Human Centric Lighting (HCL) is a fundamental approach to planning. ERCO has now created the Iku recessed downlight system for premium HCL concepts. Tunable white is just one of several features for flexibly and dynamically combining architecture, activities and atmosphere in the lighting concept.

Lighting design with HCL, for example for office buildings, involves many levels and components because HCL means more than just a few luminaires with variable light colour: the lighting should support the perception of the user during various activities and also have a positive biological effect. All of this takes place in various architectural situations: these range from reception areas, atriums and circulation zones such as staircases and corridors, to the diversely designed work and office environments of today.

Lighting designers not only need luminaires with different wattages, distributions and light colours including tunable white. Just as important is flexible, wireless connectivity for dynamic control scenarios and, no less important, overall cost-effectiveness. Fewer, but nuanced, high quality and efficient luminaires already pay for themselves during installation as well as in the long term due to low operating overheads.

A universal range of recessed luminaires

The new range of recessed downlights meets all of the above requirements: Iku for all areas of architectural lighting and Iku Work specifically developed for standard-compliant workplace lighting. With its logic and clarity, the Iku system already starts impressing at the planning process: five sizes ranging from 84 to 221mm, three downlight distributions plus wallwashers and double wallwashers



Photo: © ERCO GmbH

as well as six white light colours plus tunable white are all winning features. Iku recessed downlights are compactly designed and offer high lumen output with a luminous efficacy of over 100lm/W. Iku thus represents a universal system for uniformly designed, ceiling-integrated lighting. The range is ideal for public buildings, offices and administrative buildings as well as for conference centres, hotels and restaurants – and especially for realising successful HCL concepts.

New Flindt Plaza - Sculptural Design and Illumination

Copenhagen, Denmark – In spring 2021, Louis Poulsen introduced the Flindt Plaza, a new sculptural post top by Christian Flindt that merges design flexibility and contemporary aesthetics. With its modular construction that can be adjusted to the surrounding environment, the Flindt Plaza is ideal for creating scenic and larger-scale illumination in public spaces and the landscapes of tomorrow.



Photo: © Louis Poulsen Asia

The Flindt Plaza is an addition to the Flindt family, developed by award-winning Danish designer and architect Christian Flindt in collaboration with Louis Poulsen. The Flindt Plaza meets the need for scenic and flexible, as well as discreet, larger-scale illumination in a range of applications for public parks, urban squares, city centres and ocean fronts. The aesthetic design has the same subtle sculptural appearance as the rest of the Flindt family, complementing both modern and classic urban spaces.

Based on the same design language and key idea of the Flindt family, one single asymmetric carving opens up the light. This distinctive carving adds character to the luminaire and serves as a dimming reflector, softening the light and making it more pleasant in the dark, while also directing it precisely where needed.

The simple aesthetics of this resilient bollard, with its functional and attractive illumination, has since made the Flindt Bollard a convincing choice – elegantly

complementing urban parks and other public spaces during the day as well as making them more accessible and safer at night.

To enhance the flexibility in the lighting design, the post top is available with two different reflector types. The light units are also adjustable by plus/minus 5° vertically and 360° horizontally on site, allowing for more varied light distribution.

The Flindt Plaza comes in a warm corten or aluminium with a textured surface. The textured finish not only means enhanced visibility and elegant reflection – both in sunlight and artificial lighting – but ensures its durability in all the different environments in which it is used.

The Flindt Plaza is now available at the Louis Poulsen Asia showroom at 5 Purvis Street, #01-02, Singapore 188584 or call 6735 4880 to arrange an appointment to view the collection.

Luminii launches Stenos™, architectural grade micro linear track and downlight systems

Chicago, USA – Luminii, a Chicago-based manufacturer of industry-leading specification-grade architectural LED lighting systems, announced the immediate availability of the company's STENOS micro linear platform. The ready-to-order and field configurable slimline linear product family is available in both a track and downlight system, encouraging lighting designers and architectural professionals to create unique and sophisticated lighting installations across a broad range of applications.

At the heart of the STENOS system is an all-new and proprietary micro-optics engine. This ultramodern engine has been designed around the latest LED technology, a Titanium Dioxide Chip Scale Package LED. Featuring a custom narrow 15° TIR native beam and a +/- 30° bidirectional tilt, Luminii's micro-optics engine is the foundation for both the STENOS Downlight and highly configurable STENOS Track Systems.

STENOS Track

Available in both a surface and recessed option, the STENOS Track system features an immaculate circular beam quality from a one-of-a-kind micro linear form factor. The STENOS ambient and directional modules seat flush in the track system creating a seamless



Stenos Track module, 3", 5", 12"
Photo: © Luminii



Stenos Track module, 3", 5", 12" (white).
Photo: © Luminii

architecturaleffect and deliver up to 1200 lumens per foot. The modules feature endless flexibility and can be added, removed, and repositioned with ease using simple tools. Additionally, STENOS Track is field cuttable and features an array of easy to install joiners while its two-circuit track enables a straightforward set-up of two separately controllable zones. Simply remove, rotate, and reinsert the module to change the circuit.

STENOS Downlight

The STENOS architecturally-designed Downlight portfolio is uniquely small, consisting of three (3", 5", 12") discreet micro-linear downlight options, producing an output range of 250-1260 lumens. All options feature perfect beam quality featuring a +/- 30° aimable tilt, and beam shaping accessories providing a wide range of flexibility for any project. STENOS downlights are field configurable, featuring a constant voltage design that enables multiple fixtures to operate from a single power supply, resulting in a simplified installation and overall cost savings.



Stenos Downlight, 5" with louvre.
Photo: © Luminii



Stenos Downlight, 5" with louvre (white).
Photo: © Luminii

ETC introduces Lonestar

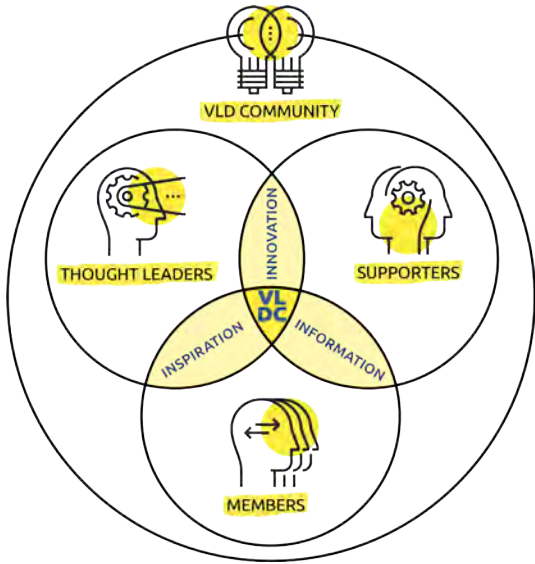
Middleton, Wisconsin, USA – The High End Systems Lonestar brings the renowned brightness, quality and performance of ETC's bright white LED framing fixtures in a more compact package. With 15,400 lumen output and a rich feature set, Lonestar is a perfect addition to lighting systems in theatres, television studios, cruise ships, and other small to medium-sized venues. The luminaire's rich colours, powerful zoom, full curtain framing, diffusion and prism effects make Lonestar a versatile and affordable tool for designers who want maximum performance from a mid-sized automated fixture.



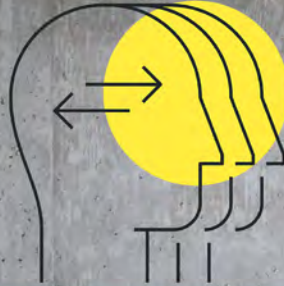


Photo: © ETC

Welcome to the Virtual Lighting Design Community

A new online platform offering various opportunities for exchanging information, encouraging innovation and drawing inspiration from within and beyond the lighting industry. The first episodes are already live!



 <p>THOUGHT LEADERS</p> <p>Thought leaders are people who present ideas and thoughts to the community so as to stimulate a discussion.</p>	 <p>SUPPORTERS</p> <p>Supporters are people with common experiences or interests who provide the community with various types of help and financial support. Their primary goal is to promote the development of the community through pooling resources. Supporters may also work to inform the general public or engage in advocacy.</p>	 <p>MEMBERS</p> <p>Members are the heart of the community and include all who learn, work and play within the community and the lighting industry.</p>
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Create your profile, mark your personal and professional interests and search for connections with shared interests. Access the platform to connect with other VLD-ers. VLD-ers include everyone from individuals such as architects, builders, consultants, designers, developers, educators, engineers, sales reps and students, to groups like government agencies, hospitality chains, manufacturers, museum authorities, NGOs, retail brands, and universities, who can benefit from this platform.

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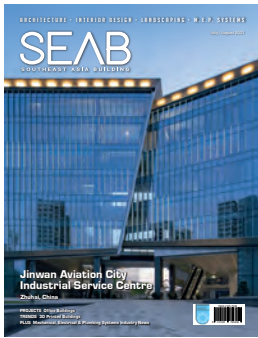
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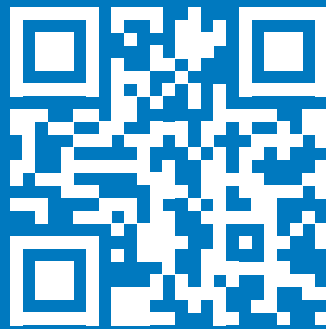
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