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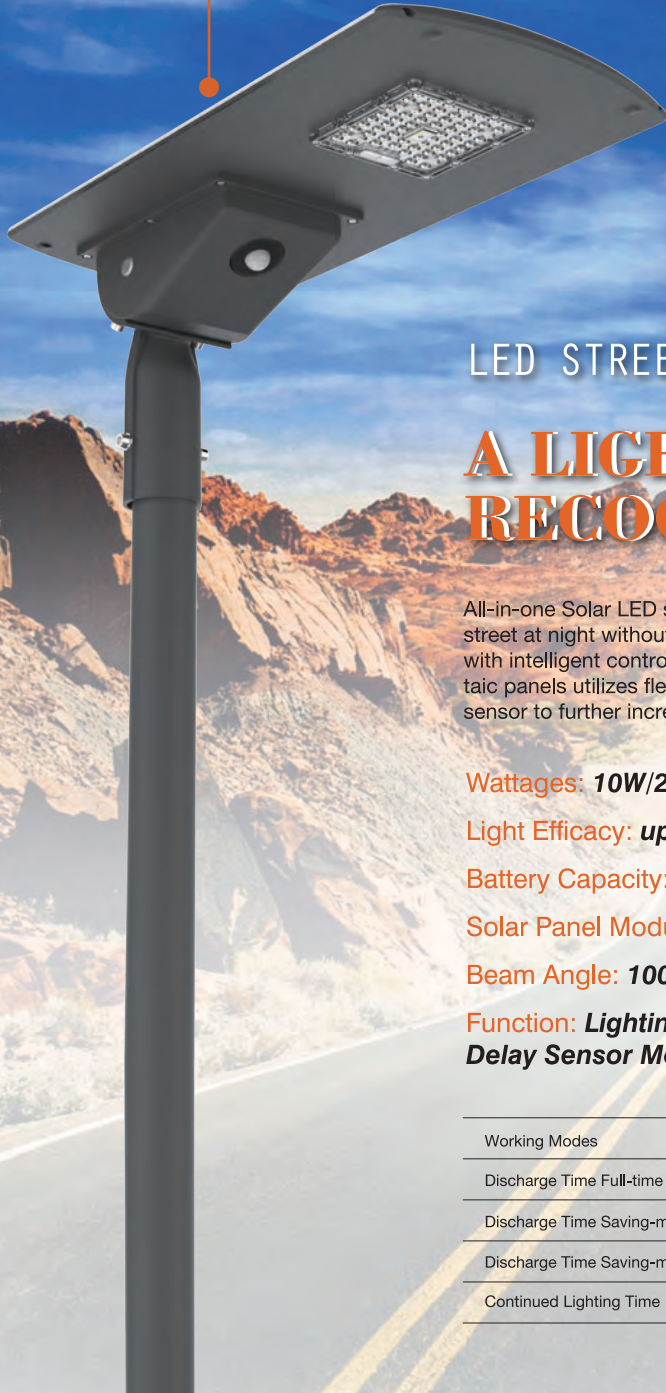
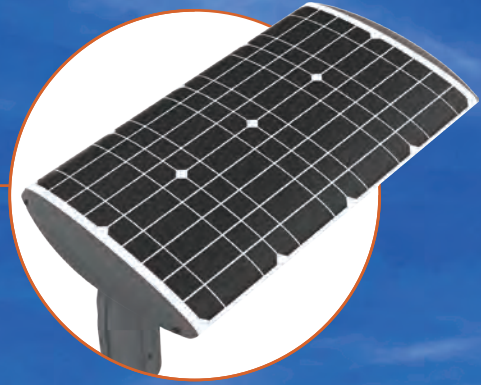


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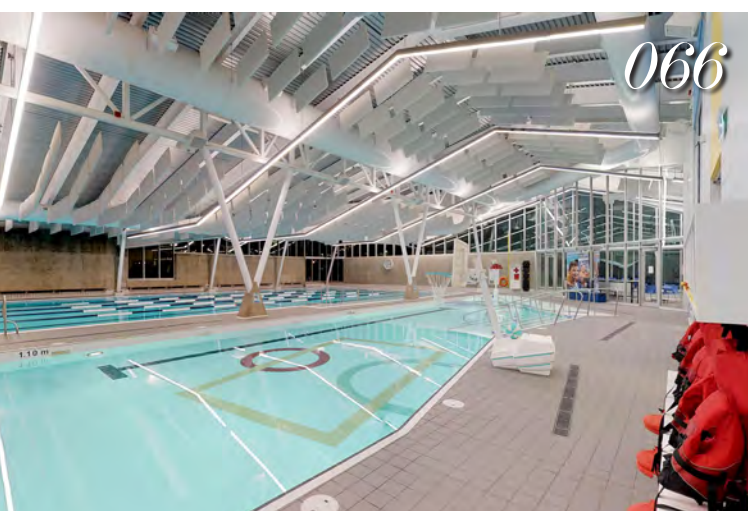
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Dear Readers,

Hope all of you are having a great time as the end of the year comes around.

In this issue we have some exciting stories. Do check out our cover story about Berlin's Museum Island and Zumbotel's new product that they developed for the second floor of the James Simon Gallery. Other exciting stories include the exterior lighting of the Las Vegas Ballpark and ERCO's "Spot-on" series beginning in Italy under the Special Feature section. Have fun reading the project and remember to like our Facebook page for future updates. Have a blessed upcoming Christmas and New Year ahead!

Have something lighting related to share? Perhaps a piece of news, project, or even product. Send it to our email! We would love to feature projects and submissions from all over the world from our loyal readers.

Kimberly Tan
Kimberly Tan
Editor

Lighting Sustainable Cities

IoT-Enabled Lighting Leads the Climate Change Battle



The IoT lighting system can be programmed to adjust luminance according to activity level – creating an on-demand, predictive lighting system.

Internet of Things (IoT) has ushered in a new era of unique technological opportunities, changing the way we collect and harness information from common devices we use in everyday living. The total number of IoT connected devices installed worldwide is projected to reach 75.44 billion by 2025¹ and will dramatically impact our lives, bringing about greater convenience and comfort, as well as valuable insights from data analytics to help protect the environment.

City planners are striving to transform urban spaces into smart cities where devices deployed are connected effortlessly, managed intelligently and optimised to maximum efficiency. To reduce the strain on the environment, many progressive countries and cities are also on the lookout for environmentally friendly solutions that will reduce the consumption of natural resources and emissions of greenhouse gases, to counter climate change. Two critical examples of drastic climate changes: fire in Amazon rainforest and melting ice in North Pole.

Lighting is ever-present and all around us. Smart lighting is a candidate for reducing energy consumption as it significantly reduces energy consumed by lighting systems which will have far greater impact on the environment beyond cost savings.

Organisations can be a part of this by adopting IoT technology into their building lighting systems, joining in the movement towards environmentally friendly and sustainable development for smart cities.

ST Engineering's AgilLiteS Smart Lighting was conceived with energy optimisation in mind, as a solution to building sustainable smart cities. The solution transforms individual lighting systems into smart IoT sensory networks making it environmentally friendly while simultaneously serving as data collection points to improve future demand planning, township design, facility management and monetisation opportunities for owners.

Transforming Ordinary Lights into an Intelligent Sensory Network

AgilLiteS delivers smart lighting without the need for any additional broadband network infrastructure. It also uses a deterministic communication protocol that eliminates the risk of message loss as opposed to collision detection-based protocols. Large-scale

estate lighting installations and scalability for future network expansion becomes fuss-free.

Each AgilLiteS smart controller is able to connect up to 400 dimmable LED luminaries with embedded smart motion sensors. It communicates wirelessly with neighbouring nodes to form a multi-hop mesh network. The sensor antenna and digital signal processing will overcome blind spots and maximise bandwidth efficiency. It is suitable for indoor and outdoor usage.

Sensing, Predicting and Optimising through Data Analytics

Data collection by the smart sensors allow the system to identify failing luminaries, resulting in predictive system maintenance. Facility managers will be able to greatly improve productivity, reduce cost and provide better quality of service to building occupants.

It will revolutionise your lighting system by providing on-demand lighting, superior user experience, integration with CCTV surveillance system for improved security, air-conditioning optimisation via temperature information and data analytics to derive actionable insights such as retail shopper traffic, space utilisation and maintenance scheduling.

AgilLiteS Smart Lighting delivers significant energy savings of more than 50% on top of LED savings, reduces waste through increased luminaries' lifespan, reduces carbon footprint as well as collects data to aid urban city planners in creating a more sustainable and eco-friendly living environment, a natural toolkit for any Smart City.

As the award winner of the Institution of Engineers Singapore (IES) Engineering Achievement Award* 2018, we fervently innovate to deliver lighting for safety and comfort in an environmentally friendly manner, meeting the needs of future smart and sustainable cities.

For more information, visit www.agillites.com.

*Institution of Engineers Singapore (IES) Engineering Achievement Award 2018 celebrates the most outstanding accomplishments of engineers in Singapore in the past year and recognises their significant contributions to stimulating engineering progress and enhancing quality of life in Singapore.

¹<https://www.statista.com/statistics/471264/iot-number-of-connected-devices-worldwide/>

LOOKING BACK ON LIGHTING TODAY

The end of an era...

It is hard to believe I started writing this column about 16 years ago, just when the magazine had been launched! We are now moving into the digital age and by the time you read this, you will have the very last hard copy edition of Lighting Today Magazine in your hand. The magazine is moving to the digital realm to move with the times and from next year onwards will only be published online, so a good time to look back!

When I just started to write this column in 2003, we were still firmly into the conventional lighting technology age. Sustainability through energy saving with compact fluorescent lighting was the way to go then. But as lighting designers we were not happy as compact fluorescent lamps were horrible to work with. No focal impact, mostly bulky fixtures and often very poor light quality. Already then we were complaining about the good old times when incandescent lighting quality was the norm. We all remember the incandescent light fixtures where the incandescent bulb were being retro-fitted with compact fluorescent lamps which often did not really fit. The fluorescent lamp sticking out sorely out of the fixture creating horrible sights and glare. Dimming these lamps was also a nightmare if at all possible...

But LED technology was gradually starting to make waves with constant quality and performance improvements. The LED lumen packages gradually grew from about 25 lumens/ watt to similar levels as the fluorescent lighting technology, somewhere around 50-60 lumens/ watt. The big "deception" was the manufacturers boast that LED would last well beyond the 100,000 hours life span. The LED cowboys had arrived! Over time however that was (reluctantly I suspect) brought back to 50, 35 and even 25,000 hours. Reading back my own writing at the time I can see the scepticism in regards to the technology. We struggled a lot to get a handle on the technology and make it work to satisfaction, specifically because of the LED cowboys who unscrupulously tried to sell the LED's often deliberately omitting to tell the short comings of the technology. Specifically in the dimming department and colour consistency we endured a lot of problems!

Today we have already reached more than 150 lumens/watt, we have dimmable, tuneable white technology, consistent colour quality with very tight binning and a lifespan that has gradually crept back up to about 50,000 hrs. LED lighting has now well and truly conquered the lighting industry, being pretty much the only lighting technology available in the market.

After sustainable lighting the buzz word became (and still is in many ways) human centric lighting, lighting tuned to the well-being of people. It is now trendy to talk about circadian lighting, lighting that stimulates and supports our circadian rhythms. Many lighting designers don't really know what it really entices and just specify tuneable white light as the solution, but it is of course much more than just that. It requires understanding how lighting effects various body functions, something that needs proper research...but it seems to be a great sales pitch and we now have many so called "human centric" lighting installations.

Today we have arrived in the world of smart lighting, the latest buzz word, where you hear about the Internet of Things (IoT) and Artificial Intelligence (AI). We are gradually moving from products to services and from hardware to software. The mobile phone has been elevated from a simple phone function to a device that can

do anything including control and manipulate lighting. Sensors are able to collect data that is being computed to drive more efficient use of space and resources. It seems that lighting is going to be the main digital hub that will serve as the backbone for all kind of smart systems and data platforms, so there is a big change in the air! Looking back today we can without doubt state that we have quite a ride in the lighting industry! Compared to other industries, lighting has been one of the very few that has been evolving continuously and even today we have not come at the end of what is possible in lighting. The performance and quality of LED technology keeps improving, the lighting fixtures are becoming more and more compact, some nearly invisibly small and integrated in architectural building materials. New smart technologies are turning our lighting points into smart devices.

There is however one thing we will need to be really vigilant about, something that potentially will affect our lives dramatically (it in many ways already is) if we do not step in to control it and that is our personal privacy. Data has become the most valuable commodity in the world, displacing oil with a distance. Right now, we willingly provide our personal data to anyone, through apps, through banks, through memberships, everything connected asks for your personal data and you have practically no way to stop that if you need that service or product. But there are new movements and regulations in the making to protect your personal privacy. The GDPR (General Data Protection Regulation) is one such step into that direction. There are actions underway to make you own your own data (data property rights) just like intellectual and property rights. In that way it would be an offence to use your personal data without your consent.

It's one of the big things to watch out and prepare ourselves for as we enter the new year and digital age of IoT, data analytics and AI. Lighting Today Magazine moving to the digital realm of online publishing is a logical consequence of our new reality...

Follow Martin's daily blog about lighting, Light Talk, at: <http://lighttalk.via-verlag.com>



Martin's Book, '**Light Talk, A Year in the Life of Light**'

(ISBN: 978-981-07-0120-8),

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A soft copy of the book is now available for download from Martin's blog site.

RCF HDL 30 PERFECTLY STAGES NIGHT FEVER BEE GEES TRIBUTE SHOW AT SEEBÜHNE MAGDEBURG



Photos Credit: Marcus Scheuermann

Night Fever is one of the most successful and authentic BEE GEES tribute shows worldwide. The three professional musicians from Germany know how to bring the music of the legendary BEE GEES to the stage. As part of their extensive tour, the band made a stop on the Seebühne, a nicely set open-air stage, at Elbauenpark in Magdeburg (Germany). To stage the show acoustically perfect, event professional DALTERIO Eventtechnik trusted in the HDL 30-A system from RCF. The HDL 30-A of Italian traditional manufacturer RCF, which is celebrating its 70th anniversary this year, is the compact active 2-way line array system for medium to large events – a perfect choice for the Seebühne in Magdeburg.

Joachim D’Alterio, owner of DALTERIO Eventtechnik, on the use of the HDL 30-A: “We have been using RCF for almost 10 years and are very satisfied over all these years. Rigging the new HDL series is very simple and intuitive. I love the sound of the RCF system very much because they sound audiophile and are assertive at the same time. A perfect mix, especially for such jobs.”

The Seebühne open-air stage, located in a park in Magdeburg, is an openly designed venue offering an atmospheric ambience, but because of this design, it holds some challenges for event techs and sound engineers. The auditorium and the stands are divided, and many different directions and heights demand sound exposure. To meet these challenges, DALTERIO used 2x 8 HDL 30 modules as the main array. Because the stage is located at the same height as the pit, the 12x Sub 9004 subwoofers were placed on the right and left side of the stage in a row (endfire) to save space. 4x HDL 30 modules, stacked on the right side of the stage and radiating especially into this area, covered an outer stand to the right of the stage. 2x TT22 as nearfills flew in the stage traverse. A further 2x TT22 outfill to the right and left of the stage provided additional sound exposure.



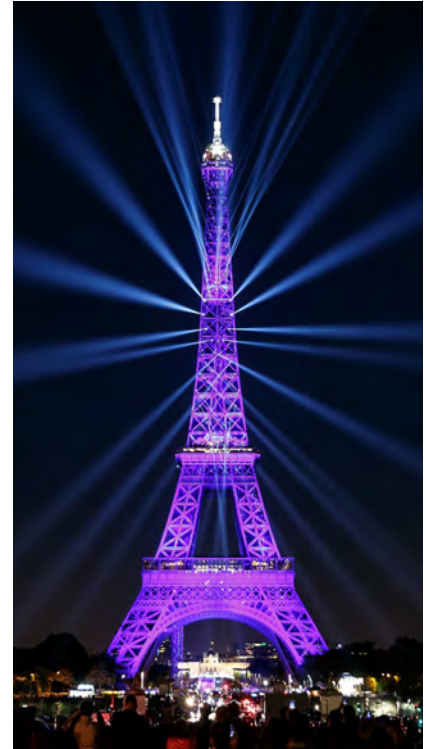
For the control and monitoring of the entire system, the DALTERIO event technology team used RCF’s own RDNet platform. It enables the control and monitoring of every single device or object in the RCF audio system. Using digital signal processing for each device, with RDNet presets or parameter adjustments can be sent to individual objects or groups of objects. RDNet users can change levels, delay, EQ (also phase-linear FIR) and additional settings. This also includes advanced subwoofer configuration.

About dBTechnologies

dBTechnologies Deutschland GmbH, based in Cologne, Germany, is a 100 percent subsidiary of the Italian RCF Group distributing RCF and dBTechnologies products in Germany, Benelux and Austria. The RCF Group is one of the world’s leading companies for sound reinforcement systems and, thanks to its in-house development and production of key-technologies, is competitive in this market and a technological leader.

For more information, visit www.dbtechnologies.de.

MAGNUM CHOOSES PROTEUS FOR EIFFEL TOWER 130TH ANNIVERSARY LIGHT SHOW



The Eiffel Tower celebrated its 130th Anniversary on May 15th and marked the occasion with a spectacular son et lumière atop the Iron Lady with 60 Elation Proteus Hybrid™ luminaires used in an extraordinary double helix design. The weatherproof Proteus moving heads played an integral part in the sound and light show and were supplied for the event by technical solutions provider Magnum, who has been involved in over 95% of Eiffel Tower events since 2004.

Magnum's role on the 130th Anniversary project was to interact between the artistic ideas of renowned set designer Bruno Seillier and the Eiffel Tower's technical director. Designed by Bruno Seillier and programmed by Magnum's Clément Lelevé, the custom light show portrayed a series of moments in history including Gustave Eiffel's design and construction of the tower, special broadcasts France got to experience due to the tower's height, the two World Wars, and other notable events in history including the recent fire at Notre-Dame Cathedral.

"For this great and historical event Bruno Seillier wanted to feature the tower as the 'DNA of Paris' so the 60 Proteus Hybrids were positioned accordingly on the top section of the tower," stated Magnum head Jérôme Chupin. A double helix design of Proteus fixtures, mounted above the second platform, lent itself to a beautiful symmetry of design, sending

powerful beams of light thousands of feet into the Parisian night sky and allowing for unprecedented visual effects. The Proteus fixtures worked with other beam effects (in domes) located at the platform positions.

Climbing technicians akin to mountaineers spent three nights on the Eiffel Tower installing the multi-functional IP65 arc-source lights, an experience other technicians around the world have become familiar with as the award-winning Proteus has been used on several high-profile light spectaculars including New Year's Eve light shows on the Burj Khalifa in Dubai and the Space Needle in Seattle.

"To this day the Proteus Hybrid is the only fixture gathering exceptional lighting qualities with the possibility to execute them in all environments," Jérôme said of the powerful hybrid moving head. "Elation's previous experience at the Burj Khalifa tower in Dubai was instrumental in the decision to give the Eiffel Tower's Technical Services Department peace of mind and give the okay to hang the Proteus Hybrid fixtures."

The 12-minute Anniversary light show debuted on May 15th following a free concert by Jeanne Added and played again the nights of May 16th and 17th, three times each night.

An important player in live event production, Magnum, based just a

few kilometers from Paris, is a family business founded by Jérôme Chupin and his wife in 1986. Jérôme comments: "For us, Elation was a true partner on this project, quickly offering solutions by answering our technical questions related to the install, transportation and safety of their product." Elation French distribution is by Best Audio & Lighting.

The symbol of Paris and a world treasure, the Eiffel Tower is a rare attraction in its own right but is especially magnificent when dressed in a custom light show as Jérôme exclaims. "The show's impact was 'extraordinaire'! For three days, three shows per day, it gathered a sea of people from Place de Trocadéro all the way to the Pont d'Iéna and was simply amazing to see."

About Elation Professional

Elation designs and manufactures a comprehensive range of innovative lighting and video products known for their excellent efficiency and outstanding performance. As a company in expansion with a presence in a growing variety of market segments, chances are you've experienced Elation lighting at a concert, special event, TV, theater, late night venue, House of Worship, theme park, cruise ship, exhibition, architectural space or elsewhere.

For more information, please visit www.elationlighting.com.

SINCLAIR & CO UNLEASH THE POWER OF 300 GLP FIXTURES AT COACHELLA



Australian psychedelic band Tame Impala's incredible year reached its zenith at the Coachella Festival recently, held annually at the Empire Polo Club in Indio, California.

Headlining on the Saturday night, at the annual extravaganza held in Indio, CA, the big occasion gave innovative lighting designer Rob Sinclair and his technical team full rein to unleash over 300 fixtures from GLP, supplied by Christie Lites on the set.

The lighting designer had been brought into the Tame Impala family back in 2017 by creative director, Willo Perron. "The band wanted a super precise show," he remembers, describing the set today as "a modern take on 60's psychedelia, which hopefully really messes with people's heads."

Among the GLP fixtures were no fewer than 250 impression X4 Bars (in a mix of Bar 10s and longer Bar 20 battens) — a deployment that really enhanced the psychedelic mood.

The design was "an adaptation of the touring rig, but with some iconic statement pieces purpose designed for Coachella," he explained, "It's all about gradients, swirling colours and complex intensity chases. We needed to be able to make these gradients with everything available so the colour depth was important. The locking together of the X Bars was also essential, and I don't think we could have used anything else [other than the Bars]."

The X4 Bar 20's were positioned on the floor and in towers and the Bar 10's are situated inside the ring, in order to make the segments of the overhead ring smaller.

Rob Sinclair's production design also included 60 JDC1 hybrid strobes—for a specific reason. "We needed a huge bank of colour behind the band and the JDC1 gave us that, within budget. We tried pixel mapping but ultimately got better effects from programming them as lights.

"I really love both the X4 Bars and JDC1, and we've used them on a lot of shows."

The production easily reverted back to its touring mode once Coachella was behind them. "The show exists as a series of elements which can be added and taken away. Therefore, it can function with or without the ring, the screen can grow and we can add and subtract lasers. The programming is done in such a way that the show always makes sense."

At the operational end, his sentiments were supported by touring LD Jon Derrington, who was working off two Hog 4 consoles, with two Playback Wings. He confirmed that the



X-Bars had played a key role in delivering the gradient colours required and the shapes they were making on the stage. "Having them perfectly straight was vitally important," he said.

"Once I figured out the fastest way to programme the Bar20s, it was easy. With a lot of complex chases and colour gradients in this show, having an easy way to grab fixtures is a must." In order to make the colour gradients and chases, these were run in 88ch mode to utilize the individual pixels.

To give an idea of the degree of prep work that went into Coachella, Jon Derrington was one of three programmers working in shifts for 24 hours a day, the others being Van Bridges and Stefan Didizan. "This was needed to get the show right," he said.

As for the JDC1 there were several moments in the show where only the LED blinder, the tube flash (or both) required. "So I put them in Aggressive Mode for extra face melting!"

Derrington clearly knows his way around the hybrid strobe, having been using them as far back as 2017 when they first launched. "We had the older demo versions on our first show, and we run them in 23ch mode."

The beauty of a touring LD is that the relationship with his gear changes as the tour evolves. And this has been to GLP's advantage. "For instance, along the way I learned how to swap the pixel direction from the desk—and that was a huge help when we had over 300 units to tech!"

About GLP (German Light Products)

GLP was founded in Karlsbad, Germany in 1994, by Udo Künzler, and has evolved into one of the leading manufacturers of high-quality and innovative lighting technology — and in recent years become market leader in LED technology for the theatre and event industry.

For more information, visit www.glp.de.

SQUEEK LIGHTS AND ELATION DARTZ™ FOR CHON SUMMER TOUR



Squeek Lights has had their busiest summer ever supplying state-of-the-art lighting packages for tours across the U.S. An especially busy June had the New York-based rental house hopping as they supplied and serviced several acts, including an outing by rock instrumentalists Chon, who toured with a rig of Elation DARTZ 360™ LED moving heads and SixBar 1000™ LED battens.

Squeek Lights has been working with Chon on the California quartet's last few tours. The band is unique and plays an appealing style of instrumental rock, a blend of interlacing guitar and rhythm that, when complemented with a dynamic light show, is richly captivating.

From looking at the band's visual vocabulary of the past, Kosiba noted a good deal of pastel colors – cyan, magenta, yellow, lighter lavender. "A lot of fixtures with color wheels don't give you a lot of pastels to work with but with the DARTZ you can mix any color you want, which was really useful when reaching for those lighter pastel colors, which I did fairly often," Kosiba explains. "Just having a color mixing fixture that small with that tight of a beam is fantastic." He adds that he generally turned to more saturated colors with the SixBars to provide more contrast and offset the pastels coming from the DARTZ.

The compact DARTZ moving heads lined the upstage on 2 ½ ft pipe and base to peek out from behind the bassist and drummer with other DARTZ fixtures working from atop road cases. "They provided a line of beams upstage and continued to impress me as far as brightness," Kosiba said of the narrow-beam LED moving head. "The fact that it gets all that output just from a 50W LED engine is impressive. It's a great little fixture that you can get cool looks with."

The LED beam/spot DARTZ projects a tight 3-degree beam and has gobos, dual prisms and unlimited rotation on pan and tilt for a stage filling effect. "I used the prisms a lot," Kosiba said. "The dual prisms and being able to throw both prisms in at the same time is a really cool look but in particular I really like its big fat circular prism." The programmer used the continuous 360-degree tilt in a couple cues. He explains, "I'd offset them tilt wise and then start the continuous tilt so



it was like two of them at the same angle at any given time rotating through the whole line. It looked really cool."

Working unobtrusively from the front as foot lighting onto performers were full color SixBar 1000s, 3-foot long LED battens with 6-color multi-chip and discreet, narrow profile. More SixBars worked from the side of the stage. "It's a bright fixture so I usually ran them at 30-50 percent to avoid blinding the band too much," Kosiba says, adding that he had the included frost on them to spread and soften the beam. Four SixBars were used to light the downstage guitars with two pushed back to light the drummer and bassist. "Especially when you go into venues that don't have great front light and side light to have something repeatable like that is great."

About Elation Professional

Based in California with a European office in The Netherlands, Elation designs and manufactures a comprehensive range of innovative lighting and video products known for its superior performance, excellent efficiency, and outstanding price:value ratio, all backed by a hard-earned reputation for Total Support.

For more information, visit www.elationlighting.com.

CITY OF MELLE CELEBRATES 850-YEAR ANNIVERSARY WITH VIO

The City of Melle in Lower Saxony has recently celebrated the 850th anniversary of the city under the motto “yesterday – today – tomorrow”. The unique festive programme was extraordinary, special and peppered with real highlights.

A real highlight of the anniversary celebrations was the band “Glasperlenspiel” performing on the festival stage on Saturday evening. Over 6,000 visitors attended the free concert of the German electro-pop band playing on the big stage. Also present was the new VIO system from dBTechnologies.

Technical service provider Professional Event Solutions used VIO for the excellent tone at the concert. As main-PA 2x 9 VIO L212 tops with 18x VIO S218 subs were used in cooperation with partners from the VIO Rental Network. The setup was supplemented by 2x 8 VIO L208 as outfill and 8x VIO L208 as nearfill.

“For us, the VIO system was the right cutlery for a concert of this size. The system has proven its very good acoustic performance in the last months. The interaction in the VIO Rental Network worked absolutely smoothly. That’s how it has to be when you have overall technical responsibility,” says Carsten Müller, Managing Director of Professional Event Solutions GmbH. He adds with a smile: “Both the artists and the organisers were very satisfied with the overall result. And so were we.”



About dBTechnologies

dBTechnologies Deutschland GmbH, based in Cologne, Germany, is a wholly-owned subsidiary of the Italian RCF Group and distributes RCF and dBTechnologies products in Germany, Benelux and Austria. The RCF Group is one of the world’s leading companies for sound reinforcement systems and, thanks to its own development and production of key technologies, is extremely competitive in this market and a technological leader.

For more information, visit www.dbtechnologies.de.

TRIDONIC AND CASAMBI DEVELOPS VERSATILE SOLUTION FOR WIRELESS LIGHT MANAGEMENT

Tridonic and Casambi have teamed up to develop a new innovative wireless light management solution. Tridonic’s basicDIM Wireless system based on Casambi’s Bluetooth Low Energy (BLE) technology offers an interconnected and interoperable solution for the hassle-free wireless connectivity of luminaires.

Wireless light management opens a myriad of new possibilities. All the parties involved in installing a new lighting system – from the luminaire manufacturer and the installer to the building operator and the end user – will benefit from the flexibility and versatility that wireless technologies offer. Also, existing lighting infrastructures can be easily updated and fitted with additional features.

Technology partnership results in portfolio for complete solution

Tridonic, a world-leading supplier of lighting technology, and Casambi, a pioneer in wireless lighting controls, have partnered to develop an innovative wireless light management solution. The partnership culminates in Tridonic’s basicDIM Wireless range of interoperable devices consisting of LED drivers, communication modules, sensors, a user-interface as well as software in the form of the 4remote BT App.

“In the last couple of years, Casambi’s wireless lighting control technology based on Bluetooth Low Energy has become established as a leading platform for innovative controls. Pairing Casambi’s technology with our long-standing expertise in the development of lighting components has resulted in a flexible and versatile new system that benefits every player in the lighting industry. Close cooperation in the development and testing phases between our companies has proven extremely fertile and we are proud to now market

the new system”, explains Bert Tuyt, Senior Director Global Systems at Tridonic.

“Wireless interconnection and interoperability are the foundations of our technology. We are proud to have found a partner in Tridonic that uses these pillars to develop and market Casambi Ready solutions. The devices and software developed bring multiple benefits to luminaire manufacturers, installers, building operators and most importantly end users who are always the top priority in our and Tridonic’s development processes”, comments Casambi’s founder Timo Pakkala.

basicDIM Wireless brings added value to lighting installations

Tridonic’s basicDIM Wireless technology is the ideal solution for wireless luminaire communication without requiring any additional wiring or construction. Conveniently controlled via Bluetooth, on/off switching as well as dimming functions are just as simple as grouping luminaires and creating lighting settings. Ideally suitable for office buildings or classrooms, each room and zone benefits from the system’s easy-to-use and multi-functional intelligence.

To exploit the benefits of the basicDIM Wireless system, luminaires can either be fitted with Casambi Ready Tridonic LED drivers or later be easily upgraded with basicDIM Wireless Modules. Interoperable basicDIM Wireless Sensors are the ideal addition to the system as they enable daylight management and presence detection. The Casambi Ready basicDIM Wireless technology enables energy savings in open-plan offices, design flexibility for conference rooms, personalised lighting for offices and the control to illuminate spaces with a soft or energising light.

ELATION INDOORS AND OUT FOR 2019 WORLD TRAVEL AWARDS IN MAURITIUS



The 26th annual World Travel Awards recently took place in the island nation of Mauritius and the tropical surroundings were made even more enticing with a dress of Elation dynamic lighting designed and delivered by Seven Amps Ltd.

Seven Amps, a Mauritian gear rental and integrated systems provider, provided all the technical equipment for the event, which included outdoor lighting for the venue's stately Manor House and cocktail area, as well as lighting for the awards ceremony at the indoor marquee. The company also handled decorative and branding elements for the awards event.

Held June 1st at the Sugar Beach Hotel in the seaside village of Flic-en-Flac, Seven Amps chose an array of Elation lighting fixtures for the awards event, along with lighting from sister company ADJ, as well as Duratruss.

"We needed an IP-rated LED Par light and wash panel for the outdoor lighting and chose Elation SixPars and ADJ Hex Panels, both weatherproof products that performed very good," said Mervyn Palan of Seven Amps. "Inside at the awards ceremony, we had a rig of Elation LED Fresnels, Profiles and Pars with Beam and Spot moving heads. We are happy with the Elation products and their performance and push it wherever we go!"

Outdoors, 40 IP65-rated SixPar 300IP™ LED Par lights lit the cocktail area and live band entertainment while 20 SixPar 200IP™ and 12 ADJ 32 HEX Panel IP fixtures illuminated the long Manor House facade. Twelve Elation Design LED Strips and 6 IP65-rated Elar EX Tribar linear LED lights were used at the photo, interview and winners booths.

Indoors at the marquee, where a presentation stage and tables were set up for the awards ceremony, 8 Elation DW Fresnel™, 4 WW Profile™ and 4 LED SixPar 300IP™ were used for front and side lighting onto the stage with 8 Platinum HFX™, 8 Platinum Beam 15R Extreme™ moving heads and 5 Fuze Par Z175 providing back lighting. Some 52 ADJ Par Z120 RGBW provided table and house lighting.



Recognized as a hallmark of excellence in the travel industry, the World Travel Awards ceremony in Mauritius was a regional event for Africa & the Indian Ocean with the grand final event to take place in Oman in November 2019. "This project was a big challenge for us as it was an international bid with top local and foreign companies bidding," Mervyn Palan sums up. "We scored the highest technical marks and over and above we achieved a great show!"

About Elation Professional

Based in California with a European office in The Netherlands, Elation designs and manufactures a comprehensive range of innovative lighting and video products known for its superior performance, excellent efficiency, and outstanding price:value ratio, all backed by a hard-earned reputation for Total Support. Through nearly three decades of intelligent lighting development, our mission has always been simple: to provide best-in-class products and service while offering the best value:performance ratio in the industry, helping show designers and producers achieve their vision. From discharge to LED, intelligent to conventional, Elation products continue to be a part of the industry's most exciting projects across the globe and our list of references is always growing.

For more information, please visit www.elationlighting.com.

CHRISTIE VISUAL SOLUTIONS DELIVER THE THRILLS AT GUANGZHOU SUNAC CULTURAL TOURISM CITY

More than a dozen Christie® 1DLP® and 3DLP® projectors deployed in the newly opened Guangzhou Sunac Cultural Tourism City are wowing visitors with vivid and lifelike images at two popular attractions that greatly enhanced the overall experience.

Known as “Rage of the Seas” and “Octopus Attack”, both attractions feature eye-catching projections accomplished with the Christie DWU850-GS 1DLP laser projectors, and Christie Boxer 4K30 3DLP projectors respectively. The projection design, installation and commissioning of all projectors in both venues were undertaken by Christie’s longstanding Chinese partner, Wincomn Technology.

“We’re very pleased to be involved in the projection design and deployment of projection systems for these highly popular attractions, widely seen as the flagship rides of Guangzhou Sunac Cultural Tourism City,” said Tony Chen, General Manager, Wincomn Technology. “Given the scale and complexity of the installations, we are of the view that Christie’s projection solutions are most ideal for use in both venues due to their proven performance and reliability in high usage environments. This sentiment is also shared by the theme park’s management, preferring Christie over the competition.”

Michael Bosworth, Executive Director for Asia Pacific, Enterprise, Christie, commented, “We are delighted that Sunac has chosen our high-performance and robust 1DLP and 3DLP projectors for its newest theme park in Guangzhou. The GS and Boxer Series are field-tested and well-suited for use in high usage environments, where performance, reliability, ease of maintenance and cost of ownership are key. Kudos to the Wincomn team for delivering yet another spectacular installation which aptly demonstrates the strengths and benefits of our visual solutions.”

“Rage of the Seas” is an exhilarating rapids adventure that invites visitors to experience the ferocity of tornadoes at sea by combining a characteristic dark ride with sophisticated lighting, projection, audio and special effects. Among the most spectacular scenes of the ride are detailed projections of the raging tornado on a 13-meter high, 12-meter wide screen using nine Christie DWU850-GS laser projectors, which are ceiling-mounted and placed in weather-proof enclosures to repel moisture and humidity.

Featuring Christie’s patented BoldColor



Photos courtesy of Wincomn Technology

The façade of Guangzhou Sunac Cultural Tourism City



Visuals for the “Rage of the Seas” attraction is powered by Christie DWU850-GS laser projectors

Technology for the highest quality images, lifelike color reproduction and reliability, the DWU850-GS’s laser illumination source, low power consumption and 24/7 operation capabilities make it ideal for deployment in this highly demanding location.

Located in the port city of Guangzhou in southern China, Guangzhou Sunac Cultural Tourism City has a floor area of 220 hectares and is home to eight major zones, including Snow World, Water World, and Sports World. In particular, the Snow World zone boasts the largest indoor skiing resort in southern China. The mega attraction is estimated to lure 20 million visitors annually, further boosting the tourism industry in Guangzhou.

About Christie®

Christie Digital Systems USA, Inc. is a global visual technologies company and is a wholly-owned subsidiary of Ushio, Inc., Japan, (JP:6925). Consistently setting the standards by being the first to market some of the world’s most advanced projectors and complete system displays, Christie is recognised as one of the most innovative visual technology companies in the world.

For more information, visit www.christiedigital.com.

PROTEUS™ HELPS GUINNESS STOREHOUSE CELEBRATE 20 MILLIONTH CUSTOMER



A New Yorker visiting the Dublin St. James's Gate Guinness brewery with her Irish fiancé helped celebrate a momentous milestone recently when she became the 20 millionth visitor to Guinness Storehouse, Ireland's most popular tourist attraction. The occasion was highlighted with an event that included an indoor concert for 500 guests along with an outdoor lighting spectacle in which Elation Proteus Hybrid™ weatherproof moving heads helped draw attention to the brewery.

Dublin-based lighting designer Conor Biddle ([conorbiddle.com](#)) was brought in by events and branding agency Archetype as creative director for the event, which took place April 25th. "The brief was to have the whole city looking in one direction – toward the brewery – so I knew I needed a powerful beam," stated LD Biddle, who adds he had seen the arc-source Proteus Hybrid used on the New Year's Eve light show on the Burj Khalifa in Dubai and was impressed with their performance and durability.

Biddle also handled creative direction on the project and tapped into an element of Guinness' storied brand, the iconic Guinness harp. "We took the idea of the Guinness harp and created a light harp in the sky with beams from the Proteus Hybrid," he says. "It was really attention-getting. We wanted to create a lot of social media talk with people wondering what the light beams were all about. The furthest away we had a report that the light beams could be seen was 70 kilometers so that was pretty impressive."

Guinness Storehouse is part of the brewery itself and tells the tale of Ireland's famous beer, with tastings and a rooftop Gravity Bar with 360-degree views of Dublin. It was atop the bar that Biddle placed the Proteus to emulate the strings of the Guinness harp. "The main harp look was just the creative starting point," Biddle says. "We also had three other locations around the Guinness site with banks of Proteus fanned out to create a 360-degree look. Each location was approximately 100 meters from each other and no matter where you were in the city you could see the beams in the sky."

Entertainment technology provider Entedi Ltd, who began to distribute Elation Professional products earlier this year, suggested the Proteus Hybrid fixtures to Biddle. "Some other fixtures I looked at didn't have the nice sharp beam I wanted but the Proteus gave the nice sharp beam all the way up to the top," he says. "You could actually focus them on a cloud to a sharp gobo which was very impressive. The optics are great and the power and punch was outstanding. I don't think there is anything that can match it."

As this was Ireland, rain was perhaps inevitable yet the Proteus fixtures didn't seem to miss a beat. "The fixtures had a lot to deal with, especially the night before the event when there were high winds and torrential rain. They definitely had a work out and we didn't have a single problem," Biddle concludes.

About Elation Professional

Elation designs and manufactures a comprehensive range of innovative lighting and video products known for their excellent efficiency and outstanding performance. As a company in expansion with a presence in a growing variety of market segments, chances are you've experienced Elation lighting at a concert, special event, TV, theater, late night venue, House of Worship, theme park, cruise ship, exhibition, architectural space or elsewhere.

For more information, please visit www.elationlighting.com.

PAPA ROACH ON TOUR WITH GLP IMPRESSION AND JDC1 STROBES



“About two months ago a lighting man was looking for a few shows in Russia and a festival gig in Germany,” recalls Mathias Kuhn. “Three months later it became Papa Roach’s European tour, while another colleague took care of the gigs in the USA.”

For Mathias the band made their decision in his favour after a festival tour of Europe last year. “It just feels good when the lighting is turned on,” said front man and band leader Jacoby Shaddix, speaking for himself and his bandmates. “It’s a lot of fun for me too,” retorted Mathias. “Performing live, this band is simply full of energy, and meanwhile I’ve practically become a member of the family.”

Currently Kuhn and Papa Roach are constantly on the move. After a support tour with Shinedown in the USA, playing mainly arenas, in the Spring they embarked on a UK tour, with shows in front of audiences of up to 4,000 people.

Most recently, prior to the festival season, Papa Roach has been touring Russia and the old Eastern bloc, where up to 6,000 flock into the venues night after night. “It’s never boring,” says Kuhn, who has faced challenges in virtually every location. “In the UK for instance, the doors are too low and you have to think twice about how to get the set on stage.” And since Kuhn was solely responsible for the lighting, only resorting to helpers and crew in the festival season, this was crucial. “In such situations you learn to appreciate fixtures that are compact, flexible and yet still powerful,” he continues. These characteristics he finds again and again in GLP’s portfolio. “When you are working in the lighting industry, somehow GLP is always on the radar. The impression X4 is the perfect example of what I needed, as they are light, compact, super bright and have great colours.”

Kuhn often develops his design ideas in close cooperation with the band and Creative Director, Darren Craig. “Tobin Esperance, bassist with the band, along with Darren and I sit together and throw wild ideas around. Later I’ll start working on it and try to transfer all this input into a tour- and budget-friendly format,” says Kuhn, describing the journey from the idea stage to the finished design. “Last year was a ‘Wall of Light’ theme, and the JDC1’s functioned like clockwork. The pixel mode produces incredible effects, and we enjoyed the full benefit.

With the band’s new record and new tour we also wanted a new look which should be more compact, more intimate,” the designer continues. “Immediately the impression X4 Bars came to mind, which we originally wanted to hang in triangular arrangements in the stage background. But that would have been too time-consuming and so we built five dollies instead on which the 36 impression X4 Bars, and also a lot of JDC1 strobes were installed. Arranged accordingly on the stage, the triangles have again been and in general this version is much more flexible than the original idea, with the fixed triangles,” he says with satisfaction.

“The impression X4 Bars are wonderfully flexible. I use them as washlights, as razor-sharp blades that cut through the room or in pixel mode as a beamlight. On top of that there are the 18 JDC1, which I use equally as a strobe as well as a washlight, because the output and the colours of this hybrid are just great.” The flexible structure with the dollies provides another advantage for the designer. “We also gain so much space and depth in small venues because we can easily work in several levels in a row.”

Finally, some impression X4 XL are also used on the sides of the stage. “The band does not like front lights so much as they don’t want to be blinded. But somehow I have to keep them in the spotlight—and this works perfectly with the eight side-mounted X4 XL,” says a delighted Mathias Kuhn, who is at FOH every night, piloting the show from a ChamSys MQ80.

Of course, the band is more than satisfied with this set-up. “At the rehearsals in London there were big ‘oohs’ and ‘aahs,’” he smiles. “After that everyone started playing with the looks and loved being able to pierce the beams or cut the blades. Everyone found the effects just really cool,” says the designer.

About GLP (German Light Products)

GLP was founded in Karlsbad, Germany in 1994, by Udo Künzler, and has evolved into one of the leading manufacturers of high-quality and innovative lighting technology — and in recent years become market leader in LED technology for the theatre and event industry.

For more information, visit www.glp.de.

TELETICA CHANNEL 7 IN COSTA RICA UPGRADES WITH ELATION LIGHTING



Telesora de Costa Rica operates Teletica Canal 7, a private Costa Rican television channel that was the first television station in Costa Rica back in 1958. Although the station produces a variety of popular programming for the Costa Rican market, they have been operating for years using a subpar mix of budget lighting fixtures and rented gear. Seeking to upgrade, Elation Professional automated luminaires were chosen as part of an ongoing lighting refurb.

With four or five different productions a year to tend to, most of which last for a period of three months, Canal 7 lighting manager Alejandro Alvarez has many roles to play. During the recent lighting install, Alvarez and his team handled rigging of the stage, including design and rigging of the TV lighting and intelligent moving heads, as well as configuring and mapping video, LED screens, and projectors. He is also behind the lighting console when many of the station's most popular shows air.

With budgets to contend with, the lighting makeover is occurring in stages. "The idea is to change all the equipment little by little," Alvarez says of the lighting system update. "First, we were looking for a company that could support us during this upgrade, a company that could stand by us to help with technical information and support like spare parts for example. I'm an electronic technician so for me support is the most important. Second, I needed a light with great color mixing and a big aperture that could be used at a short distance because the sets are 6.3 meters high. I found this in the Platinum SEVEN™ and Platinum FLX™."

New additions to the rig include 10 Platinum SEVEN LED-based moving heads used for backlight wash with its 19x 25W LED face also making for an excellent upstage effect light. According to Alvarez, the powerful wash lights with their 7-color multi-chip LED engine have eliminated the need for Fresnel backlighting.

Six multi-functional Platinum FLX moving heads provide upstage looks and on-floor graphics effects. Its wide aperture is especially useful because of the set's low trim height, says Alvarez, who uses the hybrid lights in both spot and beam mode. Elation Flex Pixel Tape is incorporated into the set for scenographic effect and is even used to simulate an LED screen at times. For an easier way to create visuals, Alvarez uses Elation EZ Kling interfaces for pixel mapping control.



Left to right: Julio Cerdas, Alejandro Alvarez and John Gutierrez

"I chose Elation because they have all the features that I was looking for and the price is very good for such a quality brand. Some features were especially important for a television broadcast environment," Alvarez says, "like color mixing, the 5 to 50-degree zoom in the Platinum SEVEN, and the high intensity."

Currently in their third production of the year, the new Elation lighting equipment was installed over a two-week period this past spring and is used on popular programs like "Tu Cara Me Suena" and "Dancing with the Stars Costa Rica."

Alvarez thanks Carlos Vargas Segura from Grupo Iliaco, Elation's partner in Costa Rica, who he says has given the station all the support they need, as well as John Lopez at Elation. He also acknowledges his team made up of John Gutierrez (first lighting tech), Hugo Calderon (second lighting tech), Benito Mendez (third lighting tech), Rafael Guzman (video tech) and Julio Cerdas (lighting assistant).

About Elation Professional

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AYRTON MAGICDOT-R IS A DREAM FOR BILLIE ELISH WORLD TOUR



Photos Credit: © Jonathan Kingsbury

Dreams and nightmares are the main themes of the Billie Eilish When We Fall Asleep world tour – the first major tour for this young internet sensation whose career is experiencing a meteoric rise. Helping this seventeen-year-old, Indie pop phenomenon to dizzying heights is the tour's wonderfully creative set design, the central motif of which is a flown bed, inlaid with 24 Ayrton MagicDot-R lighting fixtures supplied by PRG.

Erik Anderson of Cour Design is the creative director behind this incredibly dynamic show. Anderson and his partner, Gordon Droitcour, have been working with Eilish since late 2017 and on this occasion, collaborated closely with production and lighting consultant, Nick Whitehouse at Fireplay, alongside lighting director and programmer, Tony Corporale and lead programmer, Dominic Smith.

The stage design is an intricate structure revealing a forced perspective with a diamond-shaped raked video floor and an overhead truss to match. Midstage there is the main feature of the flown bed which is iconic to much of what the singer has to say, and dramatically brought into focus by the novel lighting beneath. Anderson explains: "The MagicDots are rigged to the underside of the custom scenic bed piece (built by Gallagher Staging Nashville), and are utilized during three specific automation moments during the show. We needed a compact, fast-moving light that could be rigged in a grid formation, to act as a sort of custom chandelier when the bed underside was raked out toward the audience. At one moment we use this look to silhouette the guitar player for a solo and at another moment we use the MagicDots to represent the 'monster' living under Billie's bed."

Eilish herself is very involved and invested in the design process, in particular with the use of certain colours to denote the mood and texture of a song, and having the lighting and video highlight the musical intricacies, so getting the right lighting fixtures was imperative. Anderson is already an advocate of Ayrton. "Ayrton has a reputation for high-quality, innovative lighting fixtures," he says. "We have used Ayrton products on many of our other tours, typically as the 'eye candy' fixtures that we use to create special moments during the show."

The MagicDot-R proved the ideal fixture for the bed centrepiece and Anderson found them to be extremely versatile: "MagicDots offer unique programming options because of their continuous pan/tilt ability, and this is best shown when you can utilize many of the fixtures in a tight grid formation. Since they are lightweight and very compact, we were able to use 24 of them on the bottom side of what was a relatively small automation piece in a manner that would not be achievable with a larger fixture."



Ayrton MagicDot-R fixtures lift Billie Eilish to new heights

The MagicDot-R aesthetics were also a distinct asset being on full view of the audience. "Ayrton fixtures always have a sleek look to them, as opposed to some other fixtures that might provide good lighting functions but are an on-stage eye sore," concludes Anderson.

Eilish's exciting, extensive tour kicked off in May 2019 in San Francisco, for the USA leg, and has encompassed, Australia, New Zealand, mainland Europe, and England, (notably Glastonbury Festival), and is due to finish in Mexico City in November. There's still time to catch the magic!

For more information on Ayrton MagicDot-R and its full range of LED lighting fixtures, visit www.ayrton.eu.

WHITE LIGHT GOES ON TOUR WITH AMÉLIE

Originally performed on Broadway, *Amélie* is based on the 2001 romantic comedy film by Jean-Pierre Jeunet and tells the story of an astonishing young woman who lives quietly in the real world but loudly in her mind. This UK premiere is directed by Michael Fentiman, stars Audrey Brisson and Danny Mac and features a lighting design by Elliot Griggs. Elliot explains: “*Amélie* is unlike anything I’ve ever worked on before. The film itself actually broke a lot of traditional concepts, with the central character being largely passive and the story being told through short vignettes, which together create a rich tapestry of 90s Paris, but also highlight its loneliness and isolation. Trying to encompass this successfully into a stage musical is no small feat! That said, the show manages to stay very true to the film. There are no big toe tapping numbers and the score, which was re-orchestrated by the fantastic Barney Race, steers the piece back towards its Parisian, folk-like roots; away from the Broadway-esque version of the Original Cast Recording”.

Alongside capturing the themes of the film, the creative team was also eager to catch its unique aesthetic. Elliot explains: “Anyone who knows the film will instantly recognise the image of *Amélie* in her red outfit surrounded by a muted green backdrop. Set designer Madeleine Girling’s beautiful dark green art-deco Métro station set holds the entire play, with changes of location achieved only by simple props or upright pianos which spring open into a market stall, tobacconist and, later, a sex shop.

He adds: “It was key we kept the colour palettes neutral, echoing the tones used in the original film. There’s a lot of warmth to the lighting, with the tungsten sidelight bathing the cast in sepia-like tones and bringing out the green of the set. With so many cast members on stage, all playing instruments, a lot of specials were used to highlight tiny tableaux throughout and draw the eye around the bustling stage”.

To create the specific feel he required, Elliot approached WL to supply his lighting equipment. He comments: “Considering *Amélie* is not a ‘big, loud’ musical, I purposefully avoided using a ‘big, loud’ rig. Not only does the show have several minutes of complete silence, but I also needed to create high-speed train effects without a massive noisy moving light on the circle front. The units needed to be quiet, but also offer super-fast shuttering and a variable animation wheel. After some demonstrations, we



Photos courtesy of Pamela Raith Photography



discovered that the ROBE T1 Profile was the only unit that ticked all the boxes. I was really impressed by their optics and output, even over exceptionally long throw distances from some circle rails which are sometimes in excess of 15m.

He continues: “On stage, the booms are simple 6-way par can towers which create a beautiful tungsten glow across the whole playing area. Overhead there’s a variety of LED washes including Martin MAC Quantums and some ETC Source 4 LED Lustr Series 2s. I also used GLP X4 Batten 20s to create a solid, even backlight which looks particularly stunning shining through Madeleine Girling’s set”.

With *Amélie* being a touring production, this was something that Elliot also had to incorporate into his design. He comments: “I knew that my LX team had to be able to get the show in and up in just one day at most of the venues we visited. As a result, the booms were kept deliberately simple, and nothing overhead needed physically focussing. There are only 26 units overhead, 8 par can tower booms, 12 Lustrs in the slips, a standard house front wash for the curtain call and 3 ROBE T1 Profiles on the circle front. As I said before, this show is about its simplicity with the main focus on its characters hence I created a design which reflected that.”

The show has recently finished its UK tour to critical acclaim. It will soon receive its London transfer and will open at The Other Palace this November.

About White Light

White Light is the complete technical solution specialist offering a range of services including lighting, audio, video, rigging and staging to events of all sizes across the UK, Europe and worldwide.

For more information, visit www.whitelight.ltd.uk.

TIM ROUTLEDGE GIVES THE SPICE GIRLS THE GLAMOUR TREATMENT WITH ROBERT JULIAT DALIS

F lamboyant '90s pop icons the Spice Girls' 13-date summer stadium tour, *Spice World – 2019 Tour*, kicked off at Croke Park Dublin in May to culminate in June at Wembley Stadium (where else!), transforming 1990s nostalgia into 21st century excitement as they went.

Helping to bring the near-vintage flavour to modern sensibilities was a fan-based, fully-invested design team brought together by Creative Director Lee Lodge, comprising set designer Jason Sherwood, choreographer and stage director Paul Roberts and lighting designer Tim Routledge, under the art direction of Kate Moross, who succeeded in creating a show that was a fusion of theatricality and live music on a touring scale.

Into this set up Routledge, a keen advocate of Robert Juliat Dalis fixtures, introduced over one hundred RJ Dalis 862 150W LED footlights with the purpose of bringing a heightened sense of glamour to the girls on stage.

“Our main aim was to achieve two things,” he says. “Firstly, the show was to look amazing in daylight from the get-go - some stadium shows can be a little dull in the daylight hours and we wanted it to be ‘all guns blazing’ from the start; and, secondly, to ensure the Spice Girls and their dancers look glamorous at all times, by lighting them as beautifully as possible.”

The main challenge to maintaining this intensity of focus throughout the show came in the form of the 30m x 11m main stage and long 41m diameter catwalk that curved 34m out into the audience. “Followspots can only do so much,” says Routledge.

The answer was Routledge’s application of 101 Dalis 862 footlights which were deployed along the curved downstage edge of the main stage and the full length of the catwalk. These were shielded by customised waterproof enclosures, purpose built by the tour’s lighting supplier, PRG. “It rained a lot on the tour so we definitely needed them! But they did the job as there were no adverse effects on the Dalis at all,” confirms Routledge.

“We were able to use the Dalis footlights to augment the followspots and keep the Spice Girls and the huge dance troop beautifully lit at all times,” explains Routledge. “Dalis 862 is the tuneable white version which gives the full range of warm to cold white, so we fixed them to a key colour that was a match for daylight and utilised them as



Photos Credit: © timmsy



keylights throughout. In this way we could introduce a soft light that was great for the cameras, and rounded out the faces where the followspots flattened them. This gave us the glamour lighting we were after and added a different dimension to the Spice Girls which really helped them pop out on that big stadium stage.”

On occasions, the full-on, up-tempo momentum of the pop show, gave way to moments of pure theatricality where the Dalis footlights really came into their own. “In *Queer Tango*, for example, we lit the two dancers using only the Dalis footlights and a couple of backlights, and they look absolutely beautiful,” confirms Routledge. “The Dalis did a fantastic job in lifting the performers out from the background and add a bit of glamour to the show.”

Routledge has used Robert Juliat Dalis fixtures many times over the past year on several large-scale projects including Christine and the Queens, Sam Smith and Stormzy’s famous Glastonbury headline set which has been hailed as a festival game changer. “I’m an enormous fan of Dalis so it was the obvious choice when it came to the Spice Girls tour,” he says.

About Robert Juliat

Robert Juliat was founded in 1919 and is still a 100% family-owned company today. Specialising in high quality stage lighting with superb optics and ergonomic design, Robert Juliat is a world leader in the manufacture of followspots, and also produces profiles, Fresnels, PCs, ambient projectors, dimmers and DMX tools. All Robert Juliat luminaires are designed and built in France.

For more information, visit www.robertjuliat.com.

ROYAL CARIBBEAN'S SPECTRUM OF THE SEAS LATEST LUXURY CRUISE SHIP TO SAIL WITH ELATION LIGHTING

Elation has been providing reliable, energy efficient and low maintenance lighting solutions for Royal Caribbean International cruise ships since the first Oasis class ship launched in 2009. That trend continues with Royal Caribbean's latest luxury cruise liner, Spectrum of the Seas.

Custom built for the Chinese market and accommodating 4,246 guests, Spectrum of the Seas, Royal Caribbean's first Quantum Ultra-Class ship, set sail from Shanghai in June as the largest cruise ship in Asia. Similar to Royal Caribbean's previously launched Quantum class ships, Spectrum of the Seas features first-at-sea amenities including Sky Pad, a bungee trampoline experience, and two-level family suites with an in-room slide.

Built at Germany's Meyer Werft shipyard, Amptown System Company (ASC) served as system integrator for sound, light, video, projection, media control and networking of media technology for the entertainment areas of the ship, working closely with the Royal Caribbean architects and technical team under the leadership of Royal Caribbean's Superintendent SLVR & Architectural Lighting, Christopher Vlassopoulos. Vlassopoulos coordinated the design and specification for all the entertainment equipment in all three Quantum class ships' public spaces, including the entertainment lighting systems, and served the same role on Spectrum of the Seas.

Efficient Lighting With Creative Tool Sets

Like the Quantum class ships before her, Spectrum of the Seas is an environmentally friendly smartship with energy-efficient entertainment lighting systems. She boasts a similar lighting package template as the Quantum class ships although with some updates and changes. "To keep up with the evolution of LED fixtures, the newest and most advanced technology has to be picked," states Malte Polli-Holstein, Vice President Maritime Business at ASC. "Therefore, with each new ship we strive for cutting-edge technology when it comes to LED and moving lights."

As cruise ships become more green, Polli-Holstein says the pressure on the entertainment aspect to be more efficient is also constantly growing. "Therefore, LED equivalents are highly appreciated over discharge lamps," he says. "Also the development of better LED sources with a higher output and a more natural output (high CRI / TLCI)



are forcing the change to LED. Last but not least, versatility is an important part of the requirement. The fixtures must provide a creative toolset to create new looks over and over, as all equipment won't be exchanged for about a decade."

A Good Fit For Cruise Ships

With a host of intelligent lighting manufacturers to choose from, Polli-Holstein says Amptown's preference for Elation is driven by a variety of factors. "Elation is one of the most advanced companies when it comes to intelligent entertainment lighting and a complete solution," he says. "From knowledge about the latest developments, sales, attractive prices to service and after-sales, everything runs smoothly in the partnership."

When talking specifics about why Elation lights make them a good fit for cruise ships, Polli-Holstein mentions several factors like durability, quality and state-of-the-art technology, as well as the savings inherent in using LED fixtures, namely no additional costs for spare bulbs, storage of spare parts or manpower for lamp replacements. Additionally, the possibility to procure fixtures in custom white housings was also important. "Cruise ship architects love white ships and therefore we needed some white fixtures to unobtrusively integrate them into the interior design," he said.

As a final note on LED savings, because LED lamps emit less heat, the air conditioning does not have to work as hard, which further reduces overall energy consumption on the ship. In fact, thanks to LED, major cruise ships today use only about a quarter of the energy compared to a luxury liner of 10 years ago.

Lighting Updates

The Elation LED lighting products fit the smartship ethos perfectly with the main changes on Spectrum of the Seas compared to the earlier Quantum-class ships entailing updates to the latest fixture versions. In other areas, discharge lamp fixtures have been replaced with the corresponding LED models. Malte says, however, there are circumstances in which the update has been skipped, for example in custom positions and/or recesses where a change would bring about unwanted architectural modifications.

Elation lighting is used to visually enhance many of the ship's main entertainment and relaxation areas. Elation lighting features in the ship's Music Hall, a two-story multi-use entertainment space where guests can enjoy a range of activities and

live performances. Accommodating around 400 guests, an Elation rig of Platinum Spot III and Platinum SEVEN LED moving heads, along with Colour Chorus 24 LED battens and Protron 3K LED strobes, is capable of accommodating any event. In Two70, the ship's multifunctional multi-story entertainment space, ASC has upgraded the lighting of the signature Vistarama – 270-degree panoramic windows that transform into a huge projection surface – from ELAR Quad Bars to SixBar 500 LED battens.

In the Royal Esplanade, a multi-level thoroughfare lined with boutiques, clubs, restaurants and bars that runs along the length of the ship, Platinum Spot III and Fuze Wash Z350 LED moving heads in discreet white housings provide mood lighting effects and are used each night for shows and special events. Meanwhile, in the Bionic Bar, where robotic bartenders mix drinks, Pixel Bar LED strip lights adorn the space in decorative color.

In one of the ship's more popular active areas, SeaPlex, a multipurpose sports and entertainment space used every hour of the day, Elation Fuze Wash Z350 and Platinum Spot LED Pro III moving heads provide color and pattern for both sporting and entertainment events. Here, LED is again important as the fixtures are in constant use and the hassle and cost of regular lamps replacements has been eliminated.

Specialty architectural effect lighting has been incorporated into several of the ship's outdoor areas including the pool, crew and sports decks where Elation marine-grade SixPar series LED Par fixtures, immune to salt water, heat and humidity, not to mention the cleaning crew's hose, light up the decks in the evening hours in vibrant color.

With Shanghai as homeport for Spectrum of the Seas from June 2019, Royal Caribbean is primed to take advantage of Chinese travelers' flourishing desire to cruise in what is expected to eventually become the largest cruise market in the world.

About Elation Professional

Elation designs and manufactures a comprehensive range of innovative lighting and video products known for their excellent efficiency and outstanding performance. As a company in expansion with a presence in a growing variety of market segments, chances are you've experienced Elation lighting at a concert, special event, TV, theater, late night venue, House of Worship, theme park, cruise ship, exhibition, architectural space or elsewhere.

For more information, please visit www.elationlighting.com.



IALD WELCOMES NEW PROFESSIONAL MEMBERS

IALD Professional membership is available to architectural lighting designers who have at least five years of experience in the field in the role of senior designer or above in an independent consulting practice. IALD members worldwide must meet the highest educational and ethical standards in order to belong to this prestigious community and are accepted as Professional members on the strength of their portfolios and recommendations.

The following members was accepted to the IALD between 1 March and 31 July 2019:

Fang Fang, IALD, is a Master of Engineering Student at Nanchang University with over 12 years of experience in the lighting design industry. She also holds a degree from the China Academy of Arts, majoring in Public Art. With her background in public art, she has been able to use her skills to specialize in architectural lighting, landscape, and interior lighting design. Fang uses a multi-professional approach to perfect a combination of "beauty and quality."



Fang Fang

Emad Hasan, IALD, LEED AP BD + C, joined The Lighting Practice in 2005 after earning a Bachelor of Architectural Engineering with an emphasis in Lighting Design and a Minor in Architectural Studies from The Pennsylvania State University. In 2019, Emad was promoted to Associate Principal, overseeing design direction for individual projects, facilitating day-to-day operations and pursuing new project opportunities through marketing & business development. Emad has designed architectural lighting for university buildings, high-end corporate interiors, healthcare facilities, hospitality, urban environments, exterior façades and more. He uses his keen interest in film and photography as inspiration and to guide him through the design process. Emad was recognized by Lighting Magazine for his leadership in lighting design as a 40under40 class of 2017. He is also an active member of the International Association of Lighting Designers (IALD) and Urban Land Institute (ULI).



Emad Hasan



Alan McIntosh

Alan McIntosh, IALD, is a senior lighting designer at Mulvey & Banani Lighting Inc., (MBL) in Toronto. Alan's career sprung from his studies in theatre and film that encompassed a variety of technical aspects, including theatrical / performance lighting, audio visual systems design, and multi-media design, direction and operation. Alan has drawn from his multi-faceted background to make groundbreaking design contributions to some renowned, award winning attractions: Ripley's Aquarium of Canada, Toronto; Moi Park, Mall of Istanbul, Turkey; Mega Parc, Quebec City; Prince Edward Viaduct- Luminous Veil, Toronto; Lusail Tower, Doha Qatar and Niagara Falls Illumination, Ontario / New York.

FIRST INSTALLATION OF WHITE AYRTON GHIBLI FOR THE CHINA NATIONAL CENTER FOR THE PERFORMING ARTS

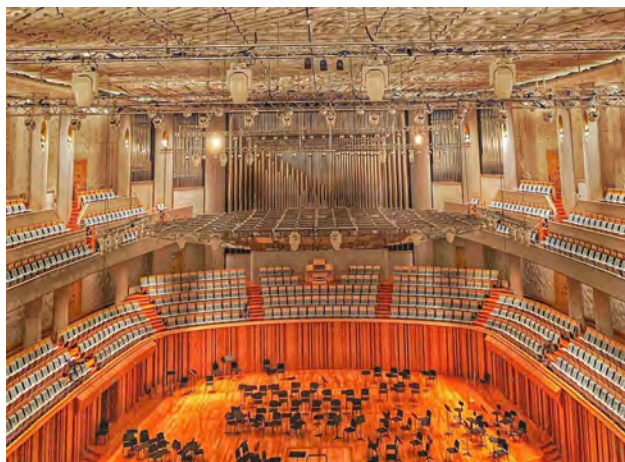
Ayrton is very proud to announce the installation of its first white Ghibli LED spot fixtures at the China National Center for the Performing Arts in Beijing. Eighty of the beautiful white units were recently installed into the elegant interior of the Center's Concert Hall by ACE, Ayrton's distributor for China, as part of a major upgrade of its lighting inventory.

The Concert Hall, designed by French architect, Paul Andreu, within a giant oval shell that includes a 2000-seat Opera House and 900-seat Theatre, is distinctive in its silver-white interior with an acoustic ceiling that resembles undulating white waves. The 1,900-seat auditorium is arranged in-the-round to enable the large-scale symphonies and Chinese traditional music that are performed there to be heard and viewed from any angle.

Consequently, its new lighting fixtures had to be capable of handling swift lighting changes and multiple staging configurations. ACE recommended Ghibli on the basis of it being a truly versatile fixture that can handle a variety of uses and throw distances – and be customized in appearance to blend it with the stylish surroundings.

"Stage lighting for concert halls always requires an elegant appearance, uniform illumination, comfort and quietness," explains Zhang Wei of ACE. "Classic halogen lights have always been used in the past. However, with the development of LED technology, the luminous efficacy of LED has overtaken most of the halogen lamps and discharge lamps, and Ayrton's product portfolio is a testament to how good LED lighting fixtures have now become.

"When choosing the lighting for the Concert Hall, our overall indicators were size, weight, noise level, colour rendering index and beam angle. We needed to ensure the optical performance of the replacement fixture was better than the superseded product, but also better in appearance, weight and size.



Ayrton Ghibli wears its white attire for performances in the Concert Hall of the China National Center for the Performing Arts in Beijing.

"We carried out a strict comparison and screening of a wide number of products, and it was the quiet, 600W LED Ghibli profile moving head, that we chose above them all. Ghibli far out-stripped the former 1200W discharge fixture we were replacing, and its competition, in optical performance, weight, size, noise level...in fact, in every parameter.

"In long-term use, Ghibli's innovative light source significantly reduces the costs on lamp replacement and power consumption, and enables both the artists and audiences to enjoy the performance in a more comfortable and quieter environment. In addition, the new white cover design merges perfectly with the surroundings of the Concert Hall, ensuring the appearance of the fixture within its surroundings is homogenous and aesthetically pleasing."

For more information on Ayrton's Ghibli and the full portfolio of LED moving light products visit www.ayrton.eu.

AGB EVENTS CREATES SPECTACULAR LIGHT AND SOUND EVENT

After months of anticipation and secrecy, 'HALO' - the light and sound experience designed specifically for Townsville, a coastal city in north eastern Queensland, Australia - has opened.

Created and produced by Sydney-based AGB Events, HALO is a spectacular experience of massive proportions that transforms Castle Hill, the natural 'halo' that hovers above Townsville. Presented by the Townsville City Council, HALO runs in conjunction with the inaugural North Australian Festival of Arts.

"Townsville City Council wanted to create something highly memorable that would truly mesmerise and captivate the public's imagination," said Anthony Bastic, CEO and Creative Director of AGB Events. "We were thrilled and honoured to be asked to undertake such a prestigious and challenging project. We're delighted with the results."

HALO, which ran from 19th July – 4th August, is the latest in a series of large scale, highly imaginative multimedia shows produced by AGB Events. These have included Vivid Sydney Light Walk, Australia's largest annual event; Parrtjima, a light festival in Alice Springs that took its inspiration from indigenous stories and culture, lighting up two kilometres of the MacDonnell Ranges; and the Lights of Christmas in Sydney and Brisbane.

"HALO is a new event experience that showcases creativity in one of the most aesthetically compelling new art forms; light art," continued Bastic. "Over the past decade, the light art movement has captured the attention and imaginations of many people around the world. This new movement in art has allowed lighting designers, artists and technicians to experiment with the latest advances in technology and create experiences that are compelling, spectacular and memorable."

AGB's light vision for HALO

There were two elements to HALO: the Castle Hill Light and Sound Show, and the illumination of Queens Gardens. Castle Hill lighted up with a dramatic light and sound show for five minutes, every 20 minutes. Queen's Gardens was the focal point for HALO, and the prime viewing point for the Castle Hill show. The Gardens were also the location for theatrical lighting treatments including tree lighting, using colour-changing LEDs, and the HALO 'chandelier'.

High powered moving head lights combined with arrays of colour washes and gobos (stencils or templates placed inside or in front of a light source to control the shape of the emitted light) were used to create the Castle Hill light show. Custom made glass gobos, as well as silhouette gobos, were also included.

"The ability to use a variety of techniques such as blending colour palettes, mixing silhouettes, varying movement speeds, warping angles, adjusting focus and scaling zoom are all ways in which AGB's lighting designer created the story," Bastic explained.

Collaboration with media production specialists

HALO is not just about light: the shifting patterns and colours were enhanced and given even greater power by a soundtrack commissioned by AGB Events and especially composed for HALO by electronic music and media production specialist Nick Wishart.

HALO is a concept that is designed to expand over multiple years as the popularity of the event spreads.



"As HALO's audience grows – which we're very confident it will - the creative scope and lighting displays have the opportunity to increase and expand, ensuring interest in the event is not only maintained but multiplied," said Bastic. "We are already looking to the future and we have some exciting ideas for subsequent editions of NAFA, using impressive, technologically-advanced light installations so spectacular that Townsville will capture the attention of the world."

About AGB Events

Based in Sydney, Australia, AGB Events creates, curates and produces iconic events for diverse audiences around the world, reimagining ways to honour art, history, and culture that inspire audiences with deeply engaging story-telling. We bring bold ideas to life through imagination, insightful curation, technical artistry, and skilled production. Our stunning visuals transcend language barriers and connect audiences through shared cultural experiences. Using highly acclaimed digital animation and 3D projection, our storytellers create atmospheric content that is impactful and rich in meaning.

For more information, visit www.agb.events.

17TH EDITION



KONSTRUKSI INDONESIA

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17,657sqm
TOTAL EVENT SPACE



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10,000
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show preview

Live Entertainment Expo
Tokyo 2020

5th – 7th February 2020

Makuhari Messe
Tokyo, Japan

Live Entertainment Expo TOKYO is coming up in February 2020

Live Entertainment Expo TOKYO, Japan's largest B-to-B exhibition for the live entertainment and media industry will be held at Makuhari Messe, Japan from 5–7 February 2020. The show has been known as one of the key business venues in Japan for the past 6 years. 650* exhibitors & 30,000* visitors are expected to gather. (*including concurrent shows)

Covers Various Live Entertainment & Media Product Industries

This show covers various products in this industry, such as LED Display, Pro-lighting, Pro-audio, PA System, AV, Special Effect, Stage Art and Digital Entertainment (VR, AR, Projection Mapping), Concert Merchandise Production, Ticketing System, Controlling / Staging System etc. for stages and entertainment places such as, concert venues, theatres and amusement parks.

Live Entertainment & Media Products are highly expected in rapidly growing Market!

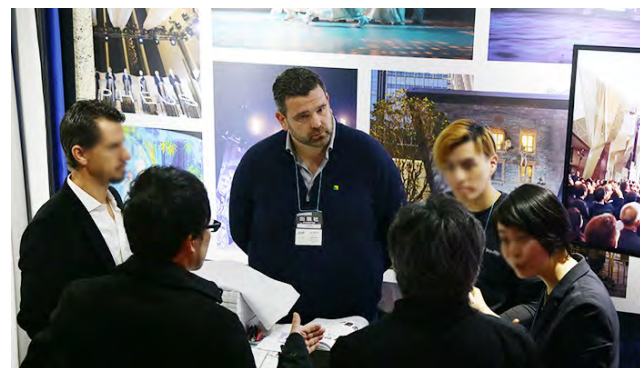
Currently, Japan's live entertainment market has been ranked 3rd biggest* in the world. Furthermore, Japan's event-related market is remarkably active and rapidly growing for upcoming Tokyo Olympics 2020 and WORLD EXPO Osaka 2025. Equipment Rental Companies, Equipment Distributors, Event Hall Owners, Shopping Malls, Amusement Parks, Promoters, Stage Art Productions and Media, etc. are expected to visit the show to find the solution and something new in the industry. Demand for the new products, technologies and services related to the event business is highly likely increasing toward the coming the world-class national events. (*Source: PWC Global Entertainment & Media Outlook 2016-2020)

Synergistic Effect from Concurrent Shows

One of the positive aspects of Live Entertainment Expo TOKYO is that it is co-held with Events & Amusement Expo TOKYO, Sports Business Expo TOKYO and Local Value Creation Expo. Since these powerful concurrent shows are held under a single location, a synergistic effect appears in purchasing from various industries. Exhibitors can also find the business partners from meetings with a wide range of industry leaders throughout the show.

Newly Launched Zone "eSports Business World"

Show Management announced that they will present a new special zone, "eSports Business World" inside Live



Entertainment Expo TOKYO. eSports Sponsors, eSports Teams/Athletes, Company's Advertisement/Marketing Division, TV Stations, Internet Service Providers, Schools/Colleges, etc. are expected to visit to discover variety of eSports related products and services! Showcase your products and services for the eSports business operation to find ideal business partners.

For more information, please visit visit www.live-event.jp/en/.

show preview

Shanghai International
Lighting Fair 2019

3rd – 5th September 2019
Shanghai New International Expo Center
Shanghai, China



Taking an increasingly influential role in the global market, China's city lighting sector is witnessing a new wave of innovation. The industry's ongoing development is leading businesses to reflect on the potential social, environmental, and economic impacts of city lighting. At Shanghai International Lighting Fair 2019 (SILF), not only will businesses showcase their new offerings and technologies, key industry figures, experts, government officials and top business representatives will also congregate at the fairground to share more about products, innovations and upcoming industry trends. By showcasing engineering excellence, design planning, and practical experiences, the fair aims to shine a spotlight on the vitality in China's lighting sector.

On the development of China's city lighting scene, Ms Lucia Wong, Deputy General Manager of Messe Frankfurt (Hong Kong) Co Ltd, shared: "In its most simple terms, city lighting technology is employed to illuminate buildings and surfaces. Yet entering the LED era, intelligent lighting control systems and colour variation are revolutionising the way we think about city lighting. In recent years, the sector's development has concentrated on the incorporation of art and technology, allowing city lighting to be more dynamic and interactive. SILF 2019 is a business platform dedicated to the landscape lighting production chain while firmly supporting the future development of the city lighting industry."



Mustering top global resources, redefining the future of city lighting

China's city lighting technology is entering a new phase of innovation. Apart from demonstrating engineering technology, design planning and practical experience, SILF will also host a series of concurrent events inviting experts from different industries to congregate and discuss innovative concepts and perspectives.

Cultural tourism and light performance in cities

In recent years, the popularity of cultural tourism has continued to grow, creating a lucrative market for lighting. SILF will invite industry figures and cultural tourism representatives to discuss:

- Theme park production chain expansion and business models
- A new cultural tourism business model combining lighting and music
- New high-tech products that reinterpret lighting
- Innovation and atmosphere building in original interactive light installations
- The elevation of night tourism branding through city light installations

Smart street lamps for smart cities

In the upcoming 5G era, lamp posts will be the carrier of smart city infrastructure. By combining IoT and LED lighting, a major trend in future city lighting is the interconnectivity of individual street lamps. SILF 2019 will lead the lighting industry to discuss the topic of smart lamp posts that incorporate the internet and data collection:

- What are the practical issues with the large-scale implementation of smart cities?
- How do smart cities satisfy daily needs?
- What could a more pragmatic approach to smart cities look like?
- How does smart lighting empower smart cities?
- How will 5G licences affect smart city construction?
- How to prepare for the upcoming 5G era?

Promoting healthy lighting through cross-industry innovations

Recognising the value of human-centric elements in lighting design, close attention has been paid to healthy lighting, respecting both the user and the environment. This year, SILF has invited industry experts to examine how a cross-industry endeavour could benefit the innovation of healthy lighting, covering key topics such as:

- How does light regulate the body? Methods of analysis and related pioneering technology
- The composition, brightness and assessment of lighting, with a focus on the influence on metabolism and genetics
- Research and implementation of key healthy lighting technology and industry standards
- The organisation and execution of fundamental healthy lighting research and industry development
- Development and implementation of healthy lighting industry standards

Expressing her anticipation towards the fair, Ms Wong said: "City lighting is essential in supporting the sustainable development of cities and what we construct today will be the bedrock for future generations. As part of the industry I hope that SILF can build a solid foundation for upcoming engineering projects by leading industry trends. The distinct lifestyle and cultural characteristics of each city must be respected and feature in the master development plans."

Shanghai International Lighting Fair is a part of Messe Frankfurt's Light + Building Technology fairs headed by the biennial Light + Building event held in Frankfurt, Germany. The next show will take place from 8 - 13 March, 2020.

For more information on Light + Building shows worldwide, please visit www.brand.light-building.com. For more information regarding the lighting shows in China, please visit www.light.messefrankfurt.com.cn or email light@china.messefrankfurt.com.

show review

Guangzhou International
Lighting Exhibition 2019

9th – 12th June 2019
China Import and Export Fair Complex
Guangzhou, China



Guangzhou International Lighting Exhibition 2019: Visitor numbers grow and a packed event programme proves a hit

Guangzhou International Lighting Exhibition once again welcomed the world's lighting industry to South China's bustling metropolis. Concurrently held with Guangzhou Electrical Building Technology, the shows received 172,856 visitors from 133 countries and regions during the four-day trade fairs. Held from 9 - 12 June at the China Import and Export Fair Complex in Guangzhou, a total of 2,626 exhibitors from 22 countries and regions showcased the latest lighting and LED products, technology and solutions over 195,000 sqm of exhibition space.

The 2019 edition of Guangzhou International Lighting Exhibition (GILE) embraced a new show theme of "Envisage the Next Move" as a nod towards the current state of the lighting industry. An industry that on the one hand continues to pursue new innovations and which is at the same time facing challenges in defending its core competencies and protecting the quality and sustainability of lighting.

Commenting on this year's exhibition, Ms Lucia Wong, Deputy General Manager of Messe Frankfurt (HK) Ltd, remarked: "Contemplating what the future holds for the lighting industry is a theme that has been truly embraced by the fairgoers at the 2019 edition of Guangzhou International Lighting Exhibition. From the



Key figures at a glance

VISITORS	EXHIBITORS	EXHIBITION AREA
172,856 <small>(combined figure with GEBT)</small>	2,626	195,000 sqm

“ I was very impressed with the quality of the audience at the forum. When I engaged with them I found that some were seasoned experts while others were budding lighting designers which created a great variety of listeners and made for an intriguing experience. For lighting designers we must combine both the technical and artistic worlds and merge them seamlessly together to have a holistic expression. I hope the audience left with an understanding that lighting has a lot of potential. When you are faced with a lot of opportunities you must be mindful and also think about what is the right thing to do. ”

- Mr Enrique Peiniger, Founder and Chief Innovator, OVI

renowned guest speakers gathered on stage from China and overseas to the plethora of smart and emerging technologies showcased around the exhibition halls, fairgoers have left this year's show with food for thought about what is next for this thriving industry. Judging by the passionate speakers and the innovative array of technologies on show, the future certainly looks bright.”

The THINKLIGHT forum invited renowned speakers from the lighting industry to share their latest insights for the assembled audiences. Over the three-day event programme more than 50 assembled speakers took to the stage to discuss a wide variety of topics including the impending 5G era, city and retail lighting and broader discussions on what's next for the lighting industry.

Comments from exhibitors:

“This is the fifth year that Luminus is exhibiting at GILE and we are focusing on two main areas: specialty products for use in industrial, medical and entertainment sectors and commercial products. China is a very big and important market for us and we meet a lot of customers at the show. By exhibiting we receive a lot of visibility and we are able to promote our brand and meet the right buyers.”

Mr Decai Sun, Chief Executive Officer, Luminus

“We've been exhibiting at GILE every year for the past 18 years. This exhibition is an ideal opportunity for us to present our brand, to grow our market and to improve our turnover in the region and globally too. China is one of our main markets and we're targeting Chinese customers that are looking for quality. GILE provides us with the opportunity to specifically meet these local buyers. Over the past year we have realised 20% of growth with our business in China and it's our target to keep growing in the upcoming years.”

Mr Hans Hagemann, Member of Board, BJB GmbH & Co KG





"This is our fourth year exhibiting at GILE and I have had a lot of memorable experiences from working at the fair. Each year GILE offers the chance to meet with many renowned domestic and international lighting brands. We are very pleased with the quality and professionalism of exhibitors and buyers at the fair."

Ms Guo Yan, Regional Director, Xinyu MLS Lighting Technology Co Ltd

Comments from visitors:

"This is my first time returning to the show for three years. I returned as I have purchasing needs from Asia and we are actively looking for product portfolios. I have observed that the quality of the products being showcased is getting better and better and that the way they are designed and made is changing fundamentally in China. This is what makes the show in Guangzhou such an interesting and attractive show for us to visit. Overall my visit was a success and I'm very satisfied with the companies that I have visited and the contacts that I was able to make."

Mr Jonathan Brune, Executive Manager, Durable (Germany)

"We have over 100 delegates visiting GILE this year and architectural lights, COBs and outdoor lighting are the most in demand products for those coming from India. The show is very well rounded and is an excellent fair where you can find anything related to the lighting industry. This is definitely one of the best shows in Asia and GILE is always the one we look forward to the most. The exhibition is truly a hub for those in the lighting industry from around the world and I will definitely visit the show next year."

Mr Deepak Doshi, Lighting Engineer (India)

Comments from speakers:

"I've had a long association with the show and I've returned once again to the show as I enjoy the buzz and the vibe and it's a great opportunity to discover what the rest of the world is doing in lighting, especially in China. For any newcomer to the show it is a real eye-opener to the industry and you will be able to learn more about the products from China and Asia and ultimately go home with a far greater understanding of the industry."

Mr James Wallace, Design Director, LightPlan

"I was very impressed with the quality of the audience at the forum. When I engaged with them I found that some were seasoned experts while others were budding lighting designers which created a great variety of listeners and made for an intriguing experience. For lighting designers we must combine both the technical and artistic worlds and merge them seamlessly together to have a holistic expression. I hope the audience left with an understanding that lighting has a lot of potential. When you are faced with a lot of opportunities you must be mindful and also think about what is the right thing to do."

Mr Enrique Peiniger, Founder and Chief Innovator, OVI

The Guangzhou International Lighting Exhibition is a part of Messe Frankfurt's Light + Building Technology fairs headed by the biennial Light + Building event. The next edition will take place from 8 - 13 March 2020 in Frankfurt, Germany.

Messe Frankfurt also offers a series of other light and building technology events worldwide, including the Shanghai International Lighting Fair, Thailand Lighting Fair, BIEL Light + Building in Argentina, Light Middle East in the United Arab Emirates, Interlight Moscow powered by Light + Building in Russia as well as Light India, the LED Expo New Delhi, and the LED Expo Mumbai in India.

For more information on Light + Building shows worldwide, please visit www.brand.light-building.com. For more information regarding the lighting shows in China, please visit www.light.messefrankfurt.com.cn or email light@china.messefrankfurt.com.

show review

LED EXPO
THAILAND 2019

27th – 29th June 2019

IMPACT Exhibition Center
Bangkok, Thailand



ASEAN's prominent show on LED lighting and technology was wrapped up successfully as over 7,000 visitors thronged the exhibition halls that buzzed with action.

The three-day lighting extravaganza, LED Expo Thailand + Light ASEAN 2019, saw a mix of frenzied activity and successful business closures, even as thousands of visitors flowed in to witness the latest and most innovative solutions in the world of lighting. The 7th edition of the Show was dedicated to the science, technology and applications of LEDs and solid-state lighting.

LED Expo Thailand 2019 saw over 200 exhibitors and brands from 10 countries showcasing products across several portfolios including commercial lighting, residential lighting, solar LEDs, smart lighting, LED signage and manufacturing equipment & components. Of these, 84% were international exhibitors, while the remaining 16% were from the Thailand market itself. Thousands of visitors from around 31 countries flocked the venue to witness the exhibits, and the Show registered about 12% international visitors in all from countries like Thailand, China, India, Malaysia, Singapore, Philippines, Vietnam, Myanmar, Hong Kong and United States of America.



An essential element of the Show was the Buyer Program that offered select procurers an opportunity to meet with the exhibitors of their choice via targeted one-to-one meetings. This program enabled successful conclusion of 243 business meetings with top buyers from the region, with 41% local and 59% international participation.

LED Expo Thailand 2019 encompassed three highlights – LED Technical Conference, Lighting Demonstration and BUILD. There were three specific highlight zones in the form of Smart Lighting & Smart City Zone, Made in Thailand and PCB Zone. The Expo aimed to create awareness around LED-centric applications, which can be put to use in various spheres. The Show has now moved beyond the purview of just LED lighting to include solar products and technology, LED signage, LED technology for entertainment, agriculture, etc.; thereby creating new possibilities for both exhibitors and visitors.

Mr. Parinya Punaprasart from Thai Beverage Public Co., Ltd., said, "I am working in electrical engineering

department of Thai Beverage Public Company Limited. This is the third time I am attending LED Expo Thailand. This year, the show looks diverse with a wide range of LED products from international and local exhibitors that showcased latest LED innovations. I highly recommend visiting the show."

Son Nguyen, CEO of Sonanh International Trading, echoed similar sentiments. "I am from Vietnam and I feel very good attending LED Expo Thailand. I found a lot of new suppliers here with high quality LED products and I plan to visit the show again next year," he remarked.

The next edition of LED Expo Thailand + Light ASEAN will be held from June 24-26, 2020 at IMPACT Exhibition Center, Bangkok. The theme for the coming year is 'Connected Lighting for a Better Future', and several players from the field of connected lighting are expected to come together to showcase their best technologies, which could pave the way for a revolutionary future.

Visit www.ledexpothailand.com for further details.

D.A.T.E. Flagship Store

*ERCO's new "Spot-on" series begins with an elegant flagship store designed
by the Zurich architects Filippo Santoni and Serena Santini*

Milan, Italy

Architecture: Filippo Santoni, Serena Santini

Lighting Design: "Santini Santoni"

Photo Credits: © ERCO GmbH, www.ercos.com, Photography: Moritz Hillebrand



The address is both concept and inspiration. ERCO's new "Spot-on" series begins with an elegant flagship store designed by the Zurich architects Filippo Santoni and Serena Santini for the new Italian sneaker label D.A.T.E. Located in the narrow alleys of Milan's Brera district, home to Italy's design scene, where urban life flourishes in restaurants, bars, cafés and galleries, and where the international creative world meets every year on the occasion of the furniture fair.

Invitingly open

"We wanted to create a scenography in which spatial architecture and lighting combine with the historical urban architecture," is how Filippo Santoni explains the design concept for the linear 40m² sales space, formerly a butcher's shop and now invitingly opening up to Via Ponte Vetro via its large window front. "The store is intended to function as a public place without a visible threshold to the outside world." The hip world of sneakers presents itself with cool understatement, clear and straightforward,

the semi-spherical hinge, characterise the friendly, bright atmosphere in the store. A further four spotlights ideally accentuate the display in the shop window.

Anything but static

"The interior should be flexible and easy to convert and rebuild," explains Filippo Santoni. Simple and quick adjustability of the light sources was therefore a prerequisite. Luminaires for track are the ideal solution here for flexibly adapting light to the prevailing room situation and constantly changing products. In the rear area of the store, where a window front opens onto Milan's typical courtyards and its so-called "Case di ringhiera", they adopted a different lighting approach, also in order to visually divide the room. Starpoint directional spotlights were installed directly in the ceiling. These are "small and adaptable" according to the architects, and are characterised by a very good quality of light. The compact spotlight, whose light beam can be flexibly aligned, offers a wide diversity for various applications thanks to its six different light distributions.



Filippo Santoni and Serena Santini



as in a white cube. The only decor is shelf cubes in clear primary colours, an elaborately structured mirror wall, a continuously installed concrete plinth that can be used as either seating or exhibition area, and the sneakers themselves. Since the retail space is relatively small, "Santini Santoni" designed a lighting concept that draws all attention to the products. Without visible light sources, a warm, shadowless, bright spatial atmosphere is created which corresponds to the highly minimalist interior and emphasises accents.

"The right light in the right place"

The two young architects, who became acquainted at the renowned Swiss Accademia di Architettura di Mendrisio and set up their own offices in Zurich three years ago, see modern lighting design as "the right light in the right place". Lighting adopts a central role especially in retail applications says Filippo Santoni, who grew up in Florence and from this city also knows the four founders of the D.A.T.E. sneaker label. "We're all the best of friends." In the front area of the flagship store the three metre high original ceiling was suspended downwards using a thin plasterboard ceiling, so that all cables could be concealed in the intermediate gap. Above the load-bearing wooden beams, fine wave-shaped strips are installed which accommodate the individual track. A total of 15 Oseris spotlights, which can be aligned quickly and precisely via

The two architects "Santini Santoni" define their design approach as "identifying contemporary responses to everyday needs and implementing these with simple means and clear concepts". With their intelligently thought-out design of the Milan D.A.T.E. store they have succeeded with casual ease, and simultaneously in a boldly experimental way, in creating a winning contemporary showroom for high-fashion streetwear. The "Spot-on" jury was impressed by how the designers implemented a creative and highly nuanced lighting concept in a compact space, which cleverly structures and divides the room visually and sets concise accents upon the merchandise.

It is project successes like these for which ERCO's new "Spot-on" programme is keen to provide a media stage. Creative lighting concepts from young designers are presented at regular intervals – whether small or large projects or lighting for indoors or outdoors.

About ERCO

The ERCO Light Factory in the German town of Lüdenscheid is a leading international specialist in architectural lighting using LED technology. The family business, founded in 1934, now operates as a global player with independent sales organisations and partners in 55 countries worldwide.

For more information, visit www.erco.com/spot-on.

*Stages Of Light: A Portrait of the Stockholm
Lighting Designer Joaquim de Abreu*

"Spot-on" for Nordic Light

Stockholm, Sweden

Lighting Design: Joaquim de Abreu, ABREU Design Studio
Website: www.abreu.se

Light is in motion. Digital technologies are changing everyday life and viewing habits and also creating new scope for lighting. The young Swedish lighting designer Joaquim de Abreu, showcased by ERCO in its "Spot-on" series, is concerned with placing light at the centre of design and creating vivid and lively stages for lighting that stimulate and inspire in an artistic and functional way.

Dynamic scenographies

"As lighting designers we can learn a great deal from stage designers and exhibition organisers," believes Joaquim de Abreu. With the Stockholm native, who thinks like a musician, a sculptor, or indeed a painter, light becomes a singular elementary material which has to be designed. He is not so much interested in the design of a luminaire, which for him is primarily a decorative element, but in the light itself. He describes it as a "critical tool for creating a specific atmosphere."

"Only when working with light is it possible to comprehend how it works," states de Abreu. "Trying things out and making errors is indispensable in order to develop a feeling for it." He began his career as a DJ and club organizer, later working for various interior designers and architects. He was struck by the subordinate role of lighting. "In design processes the light is usually not integrated until relatively late," says Joaquim de Abreu, for whom interior design and lighting design need to go hand in hand.





For de Abreu, who set up his "Abreu Design Studio" in Stockholm in 2016, "the right light in the right place" is his fundamental methodology in order to develop a dramaturgy, a dynamic scenography. Instead of illuminating a room completely and with high energy waste using a so-called carpet of light, he creates accentuated light zones, rich in detail and with their own ambience. According to de Abreu flexible light is constitutive today, also in creating "visual light comfort", a spatial and physical well-being.

"We create to remember"

"In the Nordic regions we have a very special relationship to brightness and darkness simply because of the prevalent lighting conditions there," says the lighting designer. The winters are long and dark. Compensating for daylight is essential for Sweden. And also a cosy atmosphere in the evening with almost candlelight luminosity. De Abreu calls this the "campfire atmosphere" and, in the tradition of the Scandinavian era of modern design, strives for sustainability and sees the "optimisation of energy consumption" as a matter of course and inherent component of the design task.

Today he implements his modern lighting concepts in a range of applications: in new office concepts, hotels,

clubs, individual projects such as a historic pharmacy and fashion label showrooms, where he also works with video mapping. "We create to remember" is the catchphrase on the Abreu Design Studio website. Lighting is, after all, always branding. Atmospheres that inspire and stimulate create recognition.

Flexible lighting

Whether an office location or a restaurant: flexibly applicable light is in demand in almost all areas. In Stockholm, along with an array of other commissions de Abreu has implemented the "Work away from Work" project for the real estate company Fabega. The highly functional LED lighting tools from ERCO precisely match his approach, says the Stockholm native. They enable him to design his contemporary arenas of light using state of the art technology and a great deal of creative freedom.

Hotels also appeal to de Abreu. "They present me with a variety of spatial situations ranging from corridors and guest rooms to restaurants and lobbies." The growing number of travellers is also changing them in their function as locations. "Hotel lobbies are increasingly being used as workspaces. They thus place new demands on visual comfort and flexibly usable light."

The artistic ingenuousness with which Joaquim de Abreu implements lighting as a medium of progressive development not only creates functionally atmospheric rooms and spaces that remain in the memory, it also creates a completely new realm of aesthetics for light.

The "Spot-on" programme continues to provide exciting lighting philosophies such as this one with a media stage. Modern approaches to lighting design and creative lighting concepts from young designers are presented at regular intervals – whether small or large projects or lighting for indoors or outdoors.

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Smart Lighting in IoT Era

Bangkok, Thailand

Product: Wise Plus Series by L&E
App: allLight+ L&E



The idea of smart city and internet of things (IoT) like controlling any appliance just by speech was once only an imagination in fictions and movies. Advancements in technology has made those ideas a reality today. For lighting applications, connected lighting was first implemented a few years ago. With your smartphone, you can easily control your lighting. It included switching the lights on and off, as well as other functions such as brightness, intensity, colour temperature tuning for individual luminaire, group luminaries and even scene settings.

Among various types of wireless technologies for the IoT, Bluetooth is the choice for connected lighting. It exists in every smartphone and with mesh networking property, all of the devices in the network can communicate with each other. This makes the size and area of the network virtually unlimited, suitable for large scale of luminaries and sensor networks.



A great benefit of wireless lighting control is that no control cables are required. As a result, no disruption of the existing building infrastructure is necessary anymore. This is crucial for historical or world heritage buildings since alteration of such places are impossible or not allowed. Additionally, in installation and maintenance point of view, it consumes less time and expense which is a main consideration for businesses.

There are many great benefits in wireless Bluetooth lighting technology as seen above. Additionally, the wireless lighting control also has many advantages due to its flexibility. With traditional lighting control system, every worker in an office has to use lighting with the same brightness while this smart lighting can provide personal lighting control that let each user be able to control lighting in their own area as they want. In addition to being adjustable for each user, using tuneable lighting with various colour temperature can be adaptive for many scenarios for various event.

Adaptive Lighting

One adaptive lighting application with wireless control systems that has been implemented in Thailand is a smart office of Thanachart Bank with almost 100 Bluetooth nodes. All lighting and sensors in the office are products in Wise Plus series which provide various colour temperature in one product for variety of usage and scenes. For example: cool white for work and meeting, daylight for activities, and relax scene with warm white light. In addition to adaptable usage and scene, accessibility of the system can also be managed by the office administration for security reasons.



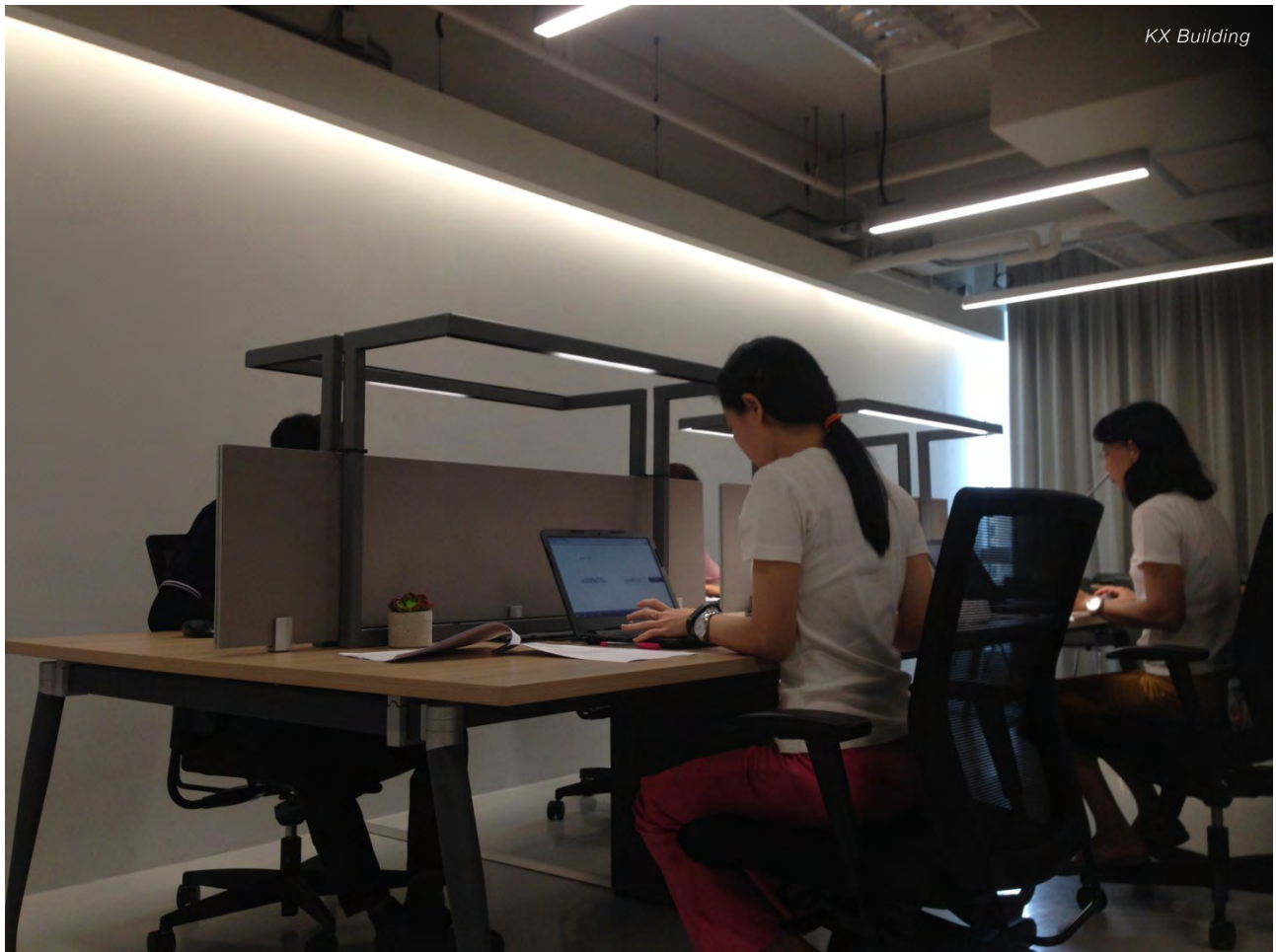
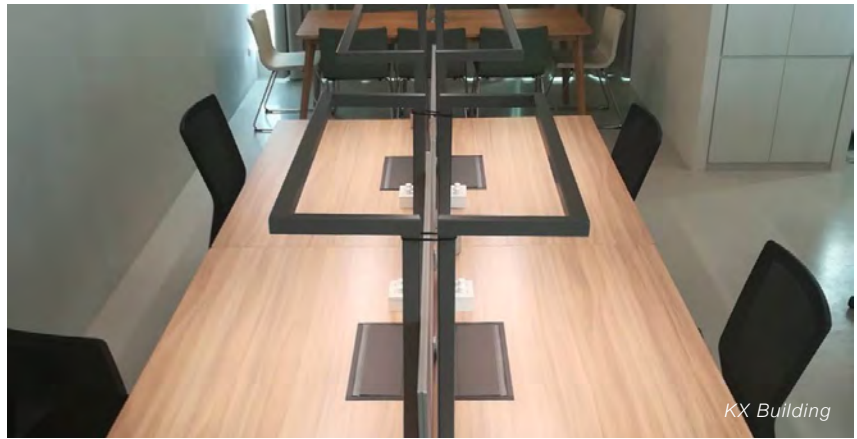
Flexible Lighting Control

Flexible lighting control makes it easier for venues like multifunction rooms in Banthai Beach Resort & Spa, Phuket. A control room and technician are not a must during an event anymore as the organizers can control lighting and set scene by themselves. The head of the building department or technician is a main user who is able to set all values and use all important functions in the app while other users can simply turn on-off the lights or activate the desired scene.



Human-centric Lighting

At KX building, which is designated to be a centre for facilitating the exchanges of knowledge, technology, and innovation capability, the concept of circadian rhythm is applied to this working space. Human-centric lighting is a good choice for KX Building as the target audience are young people who are currently interested in well-being. Tuneable-white lighting can mimic natural light colour, brightness and intensity which changes during the day. Brighter and whiter at noon that make human active, then becomes warmer and less intense in the evening while human body is calming itself down, preparing for sleep. This can be programmed easily by the application in smartphones.

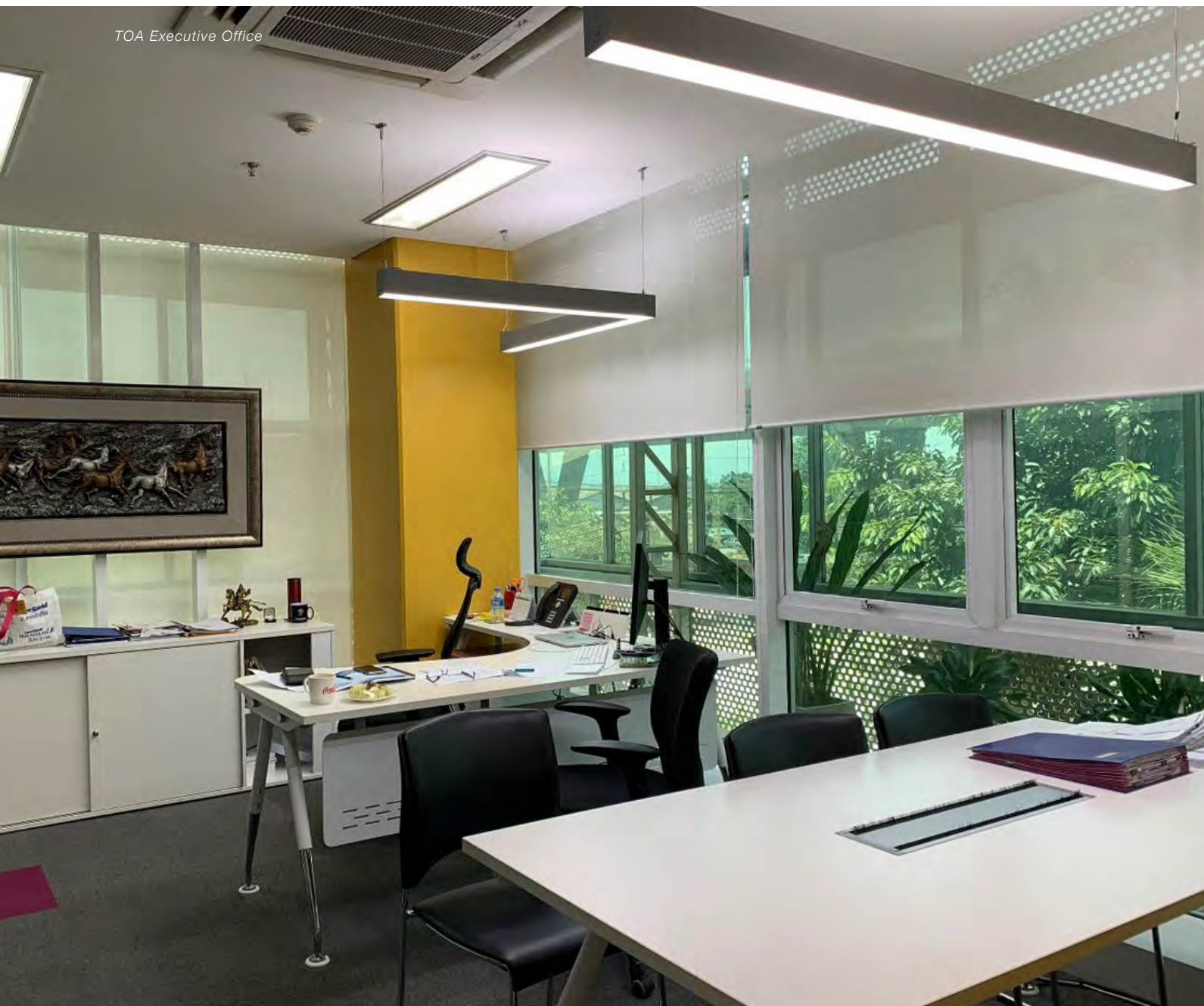


Personal Lighting Control

Brightness, colour temperature and intensity can be changed depending on functions or user's requirement. For example, an executive office of TOA company which also serves as a small meeting room, is equipped with an L-shape hanging lamp above the executive desk and a long lamp above the meeting table. Both lamps consist of atmospheric up-lighting and down-lighting for working. As the office is mainly used by the executive himself, uplighting and down-lighting of each lamp can be controlled separately for different occasions according to his needs via his smartphone.

For more detail about smart lighting and Wise Plus Series, visit www.lighting.co.th.

TOA Executive Office





James Simon Galerie

The gateway to a world of art: Zumtobel provides the lighting for the new entrance building on Berlin's Museum Island

The James Simon Gallery is the new entrance building for Berlin's Museum Island. From August 2019, it will serve as the point of entry for visitors from all over the world. But it wouldn't be fair to reduce this streamlined, graceful building to a simply functional entity. In both architectural and practical terms, the building by David Chipperfield Architects Berlin connects the ensemble of museums on the Island. It offers the general public a wonderful area in which to stroll and linger. Zumtobel was lighting partner throughout the planning and construction phases, which lasted for many years, developing a lighting concept especially for the building.

It's an effective gesture of welcome – the flight of wide steps leading to the James Simon Gallery is an architectural invitation to visit Berlin's Museum Island and discover the great works of art it holds.

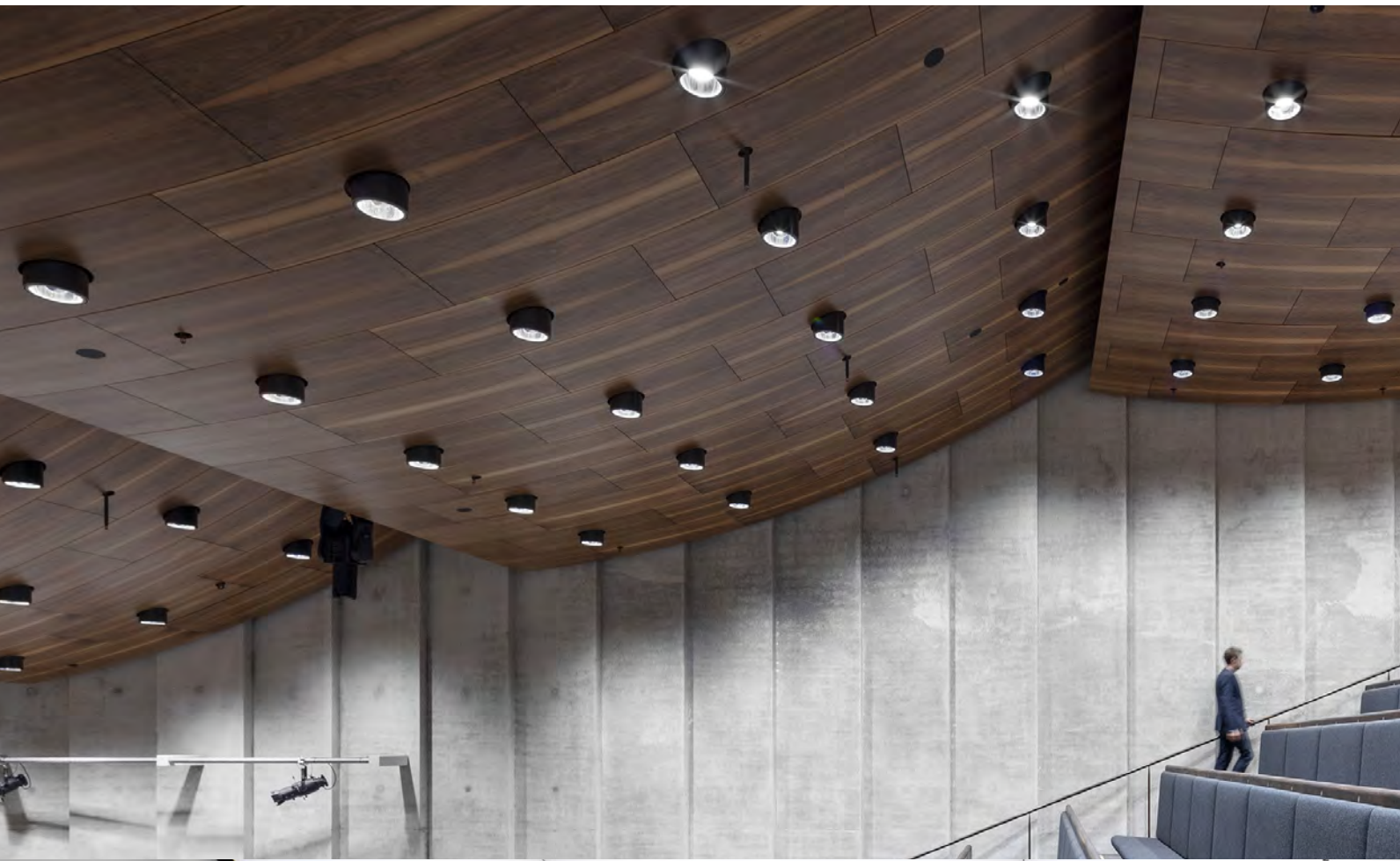




The new visitor centre is named after entrepreneur and patron of the arts, James Simon (1851–1932). The Staatliche Museen zu Berlin (“National Museums in Berlin”) have him to thank for many valuable works, including the world-famous Nefertiti Bust and the Ishtar Gate. The James Simon Gallery creates a direct aboveground connection to the Pergamon Museum and connects it in turn via the Archaeological Promenade to the Neues Museum (“New Museum”), the Altes Museum (“Old Museum”) and the Bode Museum. The flight of steps outside the gallery brings visitors to the building’s spacious foyer, where they can buy their tickets, enjoy the view from the terrace and relax in the café. The lower floors house space for temporary exhibitions, the auditorium, the museum shop and the cloakroom.









Some areas of the James Simon Gallery will also be accessible outside of the opening times, increasing the number of public spaces on the Museum Island. The spacious architectural language creates a smooth transition between the interior and exterior. Elements such as skylights, colonnades and flights of steps combine to create a building “that celebrates the accessibility of the museums and the art works that they house – and encourages people to take their time as they move through it”, as Alexander Schwarz, partner at David Chipperfield Architects Berlin and the project’s design director, describes the concept. The architects paid homage to some of the other architects who have defined the Museum Island, including Karl Friedrich Schinkel and Friedrich August Stüler, and, at the same time, brought the building right into the twenty-first century, by using contemporary materials such as glass, concrete and natural stone, for example.

One of the main aims of the lighting plan was to provide the open architectural structure, which gets plenty of daylight, with optimal artificial light. In addition, it meant bundling all the building services in a single channel, so they were invisible to visitors, in order to emphasise the building’s distinct structure. Zumtobel used this brief to develop the appropriate light and media channels, which run through the concrete ceiling of the whole building and integrate both loudspeakers and sprinkler systems. The indirect lighting enhances the natural daylight throughout the day, wherever needed, and also enables the visitor centre to be lit discreetly from the inside when it’s dark.

To make the room and exhibit lighting in the auditorium and exhibition areas as flexible as possible, Zumtobel selected luminaires including CIELUMA and ARCOS. The CIELUMA ceiling luminaires consist of square textile light modules, with the gentle progression of the light from the edge to the middle of the luminaire a particularly noteworthy feature. A colour temperature of 3800 K ensures pleasant, uniform basic lighting in the room. CIELUMA offers visitors another advantage, too – the acoustic fabric absorbs sound, reducing unwanted ambient noise in the room – so that they can enjoy the art, uninterrupted. The ARCOS LED spotlights’ role is to showcase the exhibits. The spotlights provide accented lighting for the exhibits, high colour rendering ($R_a > 90$) and excellent light quality. The UV- and IR-free light also protects the delicate artworks, while thanks to tunableWhite technology, the colour temperature can be adjusted to suit each individual exhibit. It’s a great example of colours and materials working together perfectly.





Zumtobel developed another special luminaire for the second floor of the James Simon Gallery. The CRAFT high-bay luminaire, whose light provides both broad and precise illumination, was mounted in a light cube of thin marble panels. The result: pleasant lighting and a real eye-catcher!

When planning the lighting for the James Simon Gallery, Zumtobel had to overcome very particular challenges. The rate at which LED lighting technology develops is about as fast as the planning and construction phases for a museum building are slow. This meant constantly updating the lighting planning and adapting it flexibly. "When it comes to lighting in architectural structures, it's crucial to test how it's perceived in reality and then adapt the technology to it", says architect Alexander Schwarz. "During this discussion process, and the process of trial and error in the actual building, Zumtobel was always open and very professional," continues Schwarz, describing the collaboration with the Austrian luminaire manufacturer. The James Simon Gallery isn't the only project on which Zumtobel and David Chipperfield Architects have collaborated: David Chipperfield developed the ARCOS museum spotlight for Zumtobel and designed the Zumtobel Group's 2012/2013 annual report.



Las Vegas Ballpark

Summerlin, Nevada, USA

Category: Exterior Lighting

Project Completion: April 2019

Luminis Agent: OCS Lighting & Control, Inc

Photography: Adam Sternberg



Everything about the Las Vegas Ballpark was designed with local fans in mind. Home to the Las Vegas Aviators, the city's Triple-A team, it checks every box – and then some. Amenities include comfortable mesh seats, reservable party decks and suites, an outfield swimming pool and splashpad, and the biggest scoreboard in minor league baseball. Even parking is free.

It's not surprising it was named the 2019 MiLB Triple-A Best of the Ballparks by Ballpark Digest.

One of the outstanding features of Summerlin's 10,000-seat park is the 360-degree concourse that wraps around the playing field. It offers end-to-end walkability so fans can watch the action from every angle of the park. But the concourse also encourages fan interaction with portable concession stands and seating areas.

The outfield concourse areas are open-air, so selecting the appropriate lighting for these public spaces, particularly for evening games, was a key consideration.

Owners of the stadium collaborated with OCS Lighting & Control to select Luminis' Eclipse EC870 pole-mounted fixtures to illuminate the outdoor concourse areas. Luminis was able to meet the tight deadlines imposed by the project, providing attractive, modern luminaires that complement the sleek aesthetics of the park.

Eclipse's unique design utilizes indirect lighting on a post top LED luminaire. Light is directed upwards to an aluminum reflector disc painted in white enamel, and then re-directed to the ground below. The glare-free illumination, with outstanding light levels and uniformity, ensures enhanced visibility and security for ballpark guests.

OCS Lighting & Control chose a 3000K temperature for the luminaires. Whether fans are grabbing a hot dog, chatting with friends, watching the game, or simply passing through the concourse on the way to their seats, they are treated to a warm, comfortable illumination that offers safe passage and does not compete with the on-field lighting.

Eclipse EC870 is made of a corrosion-resistant aluminum alloy to ensure it stands up to the desert sun and sand over the long term. Its LED light source delivers significant advantages in lighting efficiency and energy saving, with a lifetime beyond 140,000 hours. Ballpark staff will appreciate the low-maintenance fixtures from season to season.

The Las Vegas Ballpark is energizing downtown Summerlin, and with the right combination of fan amenities, lighting and great baseball, it has surpassed owners' expectations as a social gathering point for the community. ■





The Rothschild Collection, Museum Goldkammer

Frankfurt, Germany

Lighting Design: Pfarré Lighting Design, Muenchen

Gerd Pfarré, Dominik Buhl

Client: Degussa Goldhandel GmbH, Frankfurt am Main

Date of Completion: May 2019

Size: 64 sqm

Architects: AS+P Albert Speer + Partner GmbH, Frankfurt am Main

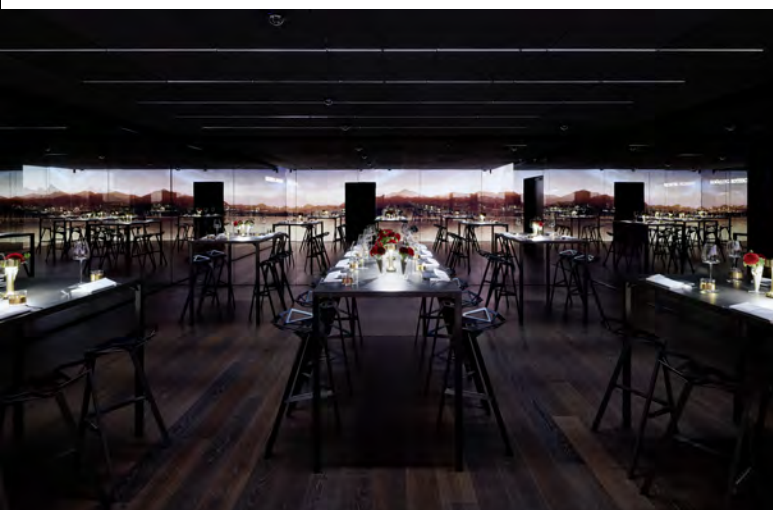
Spatial and Media Concept, Film Production: Blackspace GmbH, Muenchen

Realisation Vitrines: Barth, Brixen

Manufacturers: DGA, Luxam, Folio, Davide Groppi

Photography: Markus Tollhopf, Hamburg





The Rothschild Collection

The Goldkammer is one of the most modern museums in Europe and the Rothschild Room is the final space to visit in the exhibition. The walls of the 64 sqm space are completely covered with two-way mirrors. On three sides the walls are equipped with high-resolution LED-screens, installed behind the glass layers. The unique Rothschild Collection of 300 bullions from 35 countries with a total weight of 230 kg is presented in 38 vitrines which are integrated in the fourth wall.

The Lighting for the Room

Due to the mirrored walls, guests can have the immersive experience of being right in the center of the media presentation. Matt black ceiling panels and a dark floor are ideal backgrounds for the dynamic content of the LED-screens, displaying themes concerning gold, gold reserves, mining, etc.. The Rothschild Room can also be rented for events such as conferences or dinners, with a maximum capacity of 40 people.

In the light of the parameters described above, all lighting should come out as discreet as possible. Two minimal, glare-reduced systems for two different tasks have been selected: very slim LED-lines have been placed slightly recessed in the gaps of the ceiling. They are equipped with custom-made louvers and serve as dimmable, gentle ambient lighting elements - without interfering the visitor's attention for the collection or the media presentation.

The second lighting system, a special layout of modified, recessed Mini-LED-Downlights serves for special occasions and - with predefined, dimmable punctual scenarios - for seminars and various arrangements of banquet - as well as meeting tables.



The Illumination of the Collection

A sandwich made of 19 mm armored glass and two-way mirrors have been used over the total room height, creating a great visual challenge for the lighting designers. High luminance levels have been applied to manage the thickness and absorption of the glass layers. Various tests and mock-ups had to be conducted in order to elaborate the lighting typologies. The lighting designers presented a choice of materials, colours and lighting typologies appropriate for the presentation of the collection.





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Spatial Light

“Spatial Light” is the lighting created by the backlit side walls in each vitrine. Evenly distributed light illuminates each vitrine from four sides, using flat LED-panels, covered with a layer of red silk. These panels create a magical atmosphere and soft ambient lighting in the vitrines, generating a high-level visual comfort for both the single vitrine as well as the entire collection (Silk Light). A warm-white colour temperature (3.000°K) enhances the chromaticity of both the silk and the gold. For better contrast and optimal legibility of the objects, the designers skipped the option of a backlit back panel. The outstanding quality of the “Spatial Light” is how it works with the unconscious perception level - it is nearly impossible to perceive the emitting source of the ambient lighting. Both the bottom as well as the “frame” (ceiling panel and two side panels) can be switched and dimmed separately.

Object Light

“Object Light” is the “mise-en-scène” of the gold. Installed on all four sides of the vitrine, an invisibly integrated system of Mini-LED Spots illuminates the collections’ pieces with warm-white light. The spots can be precisely adjusted and are equipped with lenses for various beam angles. The system runs with a fiber-optic

technique, using one generator with only one LED-light source for each vitrine. Within each vitrine 12 to 28 “heads” (with two different beam angles, 5° and 10°) have been implemented for the effective illumination of the complex arrangements of lying or floating gold objects. The integration and the detailing of the fiber optical system was the basis for the planning of the vitrines and had been tested in 1:1 mock-ups. Attaching great importance to an undisturbed and highly comfortable visual experience, it was crucial to conceal all lighting elements and eliminate any sort of glare.

About pfarré lighting design

pfarré lighting design creates daylight and electrical lighting projects for architecture, land- and cityscape. pfarré lighting design are able to carry out public, commercial, cultural and private projects on almost any scale. For special requirements, there are offerings of customised solutions and designing light objects in the specific context of the architecture and the task concerned. In their projects, both aesthetical and technical longevity are as crucial as their focus on energy efficiency. Good lighting design enhances the architecture and promotes its acceptance.

For more information, visit www.lichtplanung.com. ■

Astrazeneca Office

Cotia, Brazil

Interior Design Project: Pitá Arquitetura (www.pita.arq.br)

Lighting Project: Foco Luz & Desenho (www.focold.com.br)

Project Completion: 2018

Lighting Suppliers: Lumini (www.lumini.com.br)

Photography: Rodrigo Navarro



Focusing on the well-being of its employees and collaborators, the multinational AstraZeneca brought to its Brazilian headquarters the productive atmosphere of a workplace along with a welcoming and stimulating interior design. Signed by Pitá Office, the corporate space was guided by flexible and integrated environments, solutions that encourage a more bare dynamic for the day to day in the office.

Equipped with meeting rooms, booths for conferences, coffeshop and even a library, the variety of uses required the most specific needs to each of the spaces, especially in the lighting. With the concept of simplicity and lightness in mind, Foco Luz & Desenho prioritised the visual comfort of its users by choosing LED lamps in warm tones and with grille





surfaces to reduce glare. Avoiding excesses, neutral tones were chosen both for the floor lamps, reinforcing a timeless ambiance in the hall and in social spaces, and for the pending light fixtures, a cozy touch that distanced the interior design from the conventional aesthetic.

The team of architects also saw in the lighting project the possibility of reinforcing the concept of integrated plans. Linear luminaires were installed throughout the office, creating angulations and light paths that eventually guided the users' circulation. By bringing a common identity to all spaces, from the common areas to the boardrooms, the solution eliminated the traditional hierarchy of environments and made the AstraZeneca routine even more positive and relaxed. ■







Vanderhoof Aquatic Centre

British Columbia, Canada

Project Completion: January 2019

Lighting Designer: Doug McMillan, AES Engineering

A-Light Lighting Agent: CDM2 Lightworks

Photo Credits: iTour Studios

Challenging the status quo in natatorium lighting design

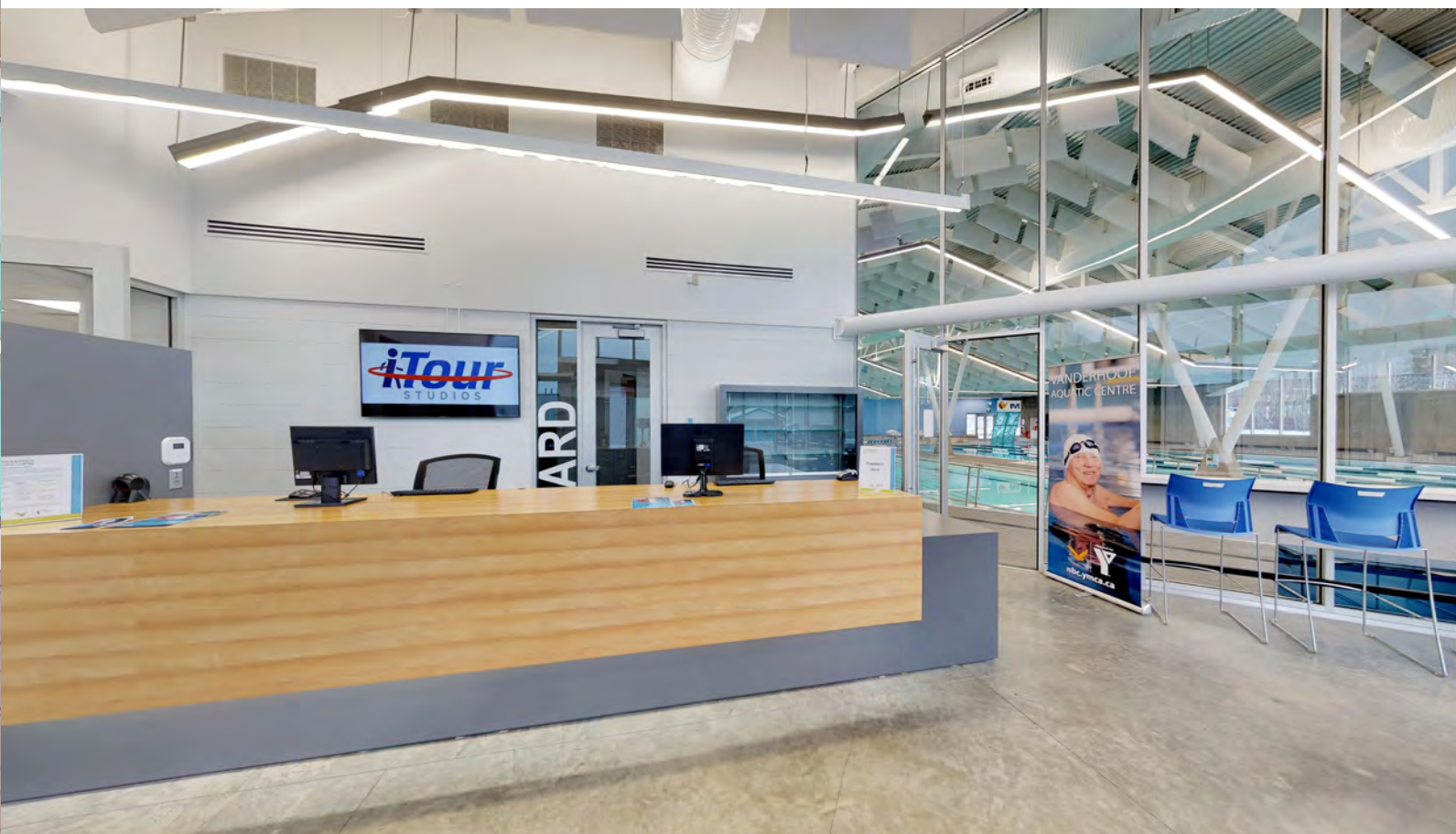
The town of Vanderhoof, in British Columbia, has built the Vanderhoof Aquatic Centre, which is a stunning new aquatic facility. The facility has a twenty-five meter, six-lane lap pool, a 1500 sq.ft. leisure pool, thirty-five-person hot tub, sauna, and an aquatic climbing wall. The natatorium space is an architectural showpiece, with a unique lighting design that creatively illuminates and integrates with the facility's design.

Carscadden Stokes McDonald Architects Inc., the project architects, had originally envisioned an expansive wooden ceiling with embedded linear lighting that would accentuate the dramatic ceiling angles. As a part of the design and construction process, the original ceiling was stripped back, opening the ceiling and exposing pipes, beams, and other mechanical

infrastructure. The project's lighting designer, Doug McMillian of AES Engineering, recommended an alternative lighting design that would enhance the space by replicating the ceiling's original angles and structure. In his design, the linear lighting, mounted in the same angles and plane as the former ceiling, was suspended across, effectively recreating the original plane and angles, and pulling viewers' eyes away from the exposed beams. The lighting essentially "became" the ceiling.

McMillan's approach of installing luminaires directly above the pools is still relatively new for the industry. A past concern has been maintenance accessibility to older lighting technologies. This option has been cost-prohibitive, as the requirement to drain pools and install scaffolding in order to change less reliable metal halide lamps had been too costly.

Typically, natatoriums utilize indirect lighting. Luminaires are installed on the sides of the space and directed upwards to bounce off the ceiling. Because there is no ceiling in the



Vanderhoof facility, illuminating the space this way would have resulted in low efficiency levels. Uneven lighting, hotspots and achieving appropriate lighting in the center of the pool could also prove problematic.

A-Light's high-performing, low-maintenance LED luminaires changed the game for McMillan. Collaborating with A-Light led to a lighting scheme that is as dramatic in its aesthetics as the technology behind it.

McMillan selected A-Light's Accolade D2 luminaire to suspend in rows above the pools, just below the ceiling's mechanical infrastructure. The 3.5" wide and 5.3" high linear LED fixture was well-suited to the project. The fixtures performed well in the severe natatorium environment and provided the opportunity to propose a striking design with direct above-pool lighting.

Accolade D2's indirect optic diffuses soft light to illuminate the ceiling above. Additionally, A-Light's HE Tech™ lens technology uses a combination of optical diffusion and high-performance reflector design to deliver a broad distribution of direct light to the space below. Its ability to span long distances opened up interesting design possibilities for the aquatic center.

Following the angles of the ceiling required custom corners along the linear run. To achieve these transitions in a traditional natatorium rated linear fixture, separate linear luminaires would have to meet at each corner, breaking the continuous line of light at the connections. McMillan did not want these dark spots, as he envisioned a seamless look that would truly accentuate the ceiling's unique shape.

He explained the design challenge: "Your attention is drawn to the dark spots rather than the overall lighting effect. Instead of the fixture





complementing the architecture, it actually disrupts it”.

This posed an unusual challenge for the team at A-Light. The Accolade D2 luminaire is available with a natatorium option, which includes appropriate sealing and powder coating to withstand the harsh chemicals of the natatorium environment. However, because of the natatorium requirements, breaks would be required at each mounting point along the run to protect the lens and maintain the integrity of the fixture.

A-Light’s Design Assist team worked through the alternatives, customizing Accolade D2 to McMillan’s specifications. Utilizing custom-milled mid-blocks, the team was able to isolate the top optical chambers at the joints which would be sealed, enabling them to provide dedicated mounting points, and maintain a continuous lens on the direct portion of the luminaire.

“This customization was huge for me,” said McMillan. “The fact that A-Light was able to do the angles like that, with the continuous lens, is incredible in a natatorium environment. I don’t know any other manufacturer doing that right now.”

The final result creates a soothing, well-lit environment for the center’s visitors. Natatorium lighting from lower ceilings tends to generate unwanted reflections and glare off the water. In this case however, A-Light’s customized Accolade D2 linear luminaires provide a much softer light and the total effect across the ceiling span creates an even distribution of illumination. No matter where you swim or play in the facility, the light level is the same.

“I work for the architect, and my job is to accentuate and complement their vision. This lighting design has enabled me to do that with tremendous results,” said McMillan. ■

LUCEM Lights: Unique light objects for living space and garden

By LUCEM GmbH
www.lucemlights.com

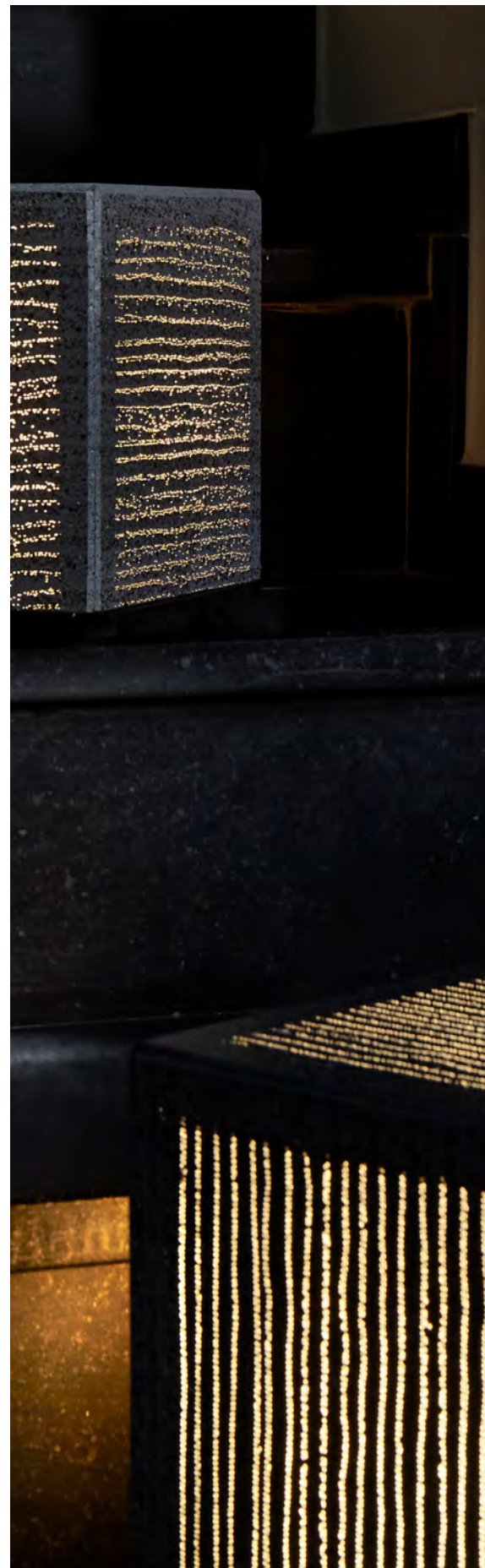


Solid concrete that shines through the light

LUCEM Lichtbeton® is a mixture of fine concrete and light-transmitting fibers. Hundreds of thousands of embedded optical fibers transmit the light incident on the back through the material. As a result, LUCEM Lichtbeton® begins to shine fascinatingly from the inside out.

The manufacturing process is highly complex and requires numerous steps, some of which are patented and made in Germany. The light-transmitting concrete panels with 200,000 light-transmitting fibers per m² are the starting product for special applications in architecture and interior design, in gardening and landscaping, and most recently in luminaire design.

LUCEM one is the first Lichtbeton® luminaire series. The handmade lighting collection “made in Germany” includes wall lights, table lamps and floor-standing luminaires for indoor and outdoor use. They consist of 2 cm thick



translucent Lichtbeton® panels in the colours anthracite or white. Inside there is an energy-efficient LED lighting technology (replaceable light source). Without lighting, the LUCEM lights have a natural stone-like look, with LED lighting switched on, they shine in a unique aesthetic, creating impressive lighting effects and a special atmosphere.

About LUCEM

LUCEM GmbH as a specialist for the production of translucent, light-transmitting concrete was founded in 2007. The company produces exclusively in Germany at the location Aachen using special production techniques that LUCEM has developed and at its exclusive disposal. A high degree of specialisation and flexible production make the company a reliable partner for national and international construction projects.

The reference list of LUCEM includes renowned objects worldwide and well-known clients such as BERTELSMANN, Munich Airport, Radisson BLU, Le MERIDIEN, HOCHTIEF, cineworld, ING DiBa, SIGNAL IDUNA. With the acquisition of the trademark rights, Lichtbeton® is a registered trademark of LUCEM GmbH, Germany.

Echo Contemporary Decorative Pendant

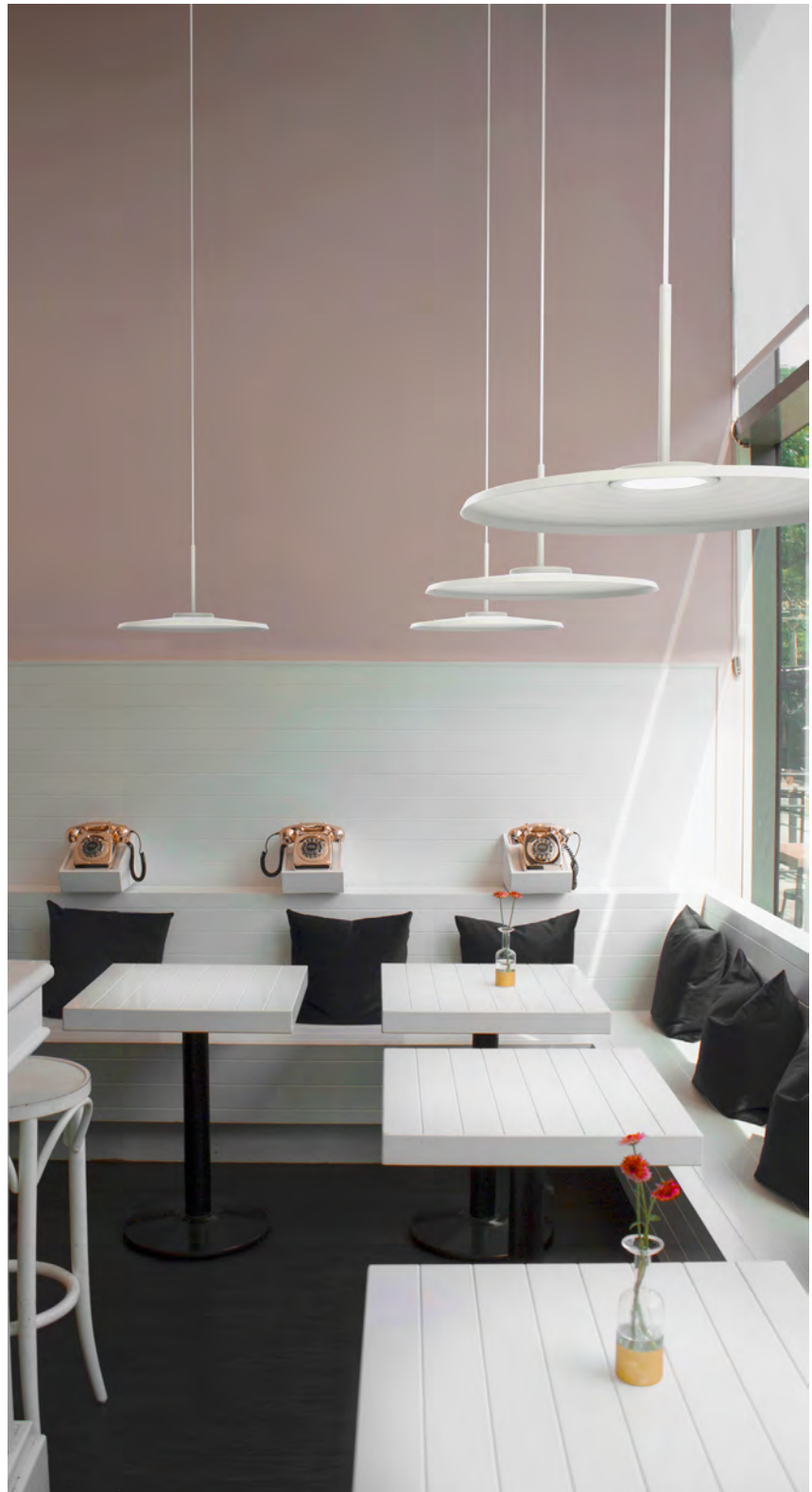
By Eureka

www.eurekalinghting.com

Eureka, an established leader in decorative lighting solutions, announced the release and immediate availability of its Echo decorative pendant luminaire. Echo utilises advanced OLED technology as a light source to produce a comfortable, high quality light in a slim, low profile package. Perfect for subtle accenting of spaces such as reception desks or lounge areas, Echo is designed to increase ambient light levels in an unobtrusive way.

With its ultra thin OLED technology and slender shade profile, Echo provides a glare-free accent light in a minimalist modern package less than 2 inches high. It emits a soft, diffused light and is suited to decorative applications where natural light is unavailable or for places where quality light is important. With its elegant profile, Echo can be hung individually for chic sophistication or in multiples.

“OLED technology challenges traditional luminaire design. It eliminates the need to consider parts that are usually essential like heat sinks and optical elements,” said Francois Renaud, Director of Design at Eureka. “This allowed us to play with thinness and to focus our creativity in giving character to this basic flat round OLED panel.”





Echo is available with canopy mounting or track system options, and with black or white fine-textured finishes as standard. It is offered in 3000K CCT delivering 190 lumens, and 4000K CCT delivering 156 lumens.

Feature summary:

- Advanced ultra thin OLED light source
- Even, glare-free, diffused quality light
- Slim profile of 1.77 inches
- Canopy mounting or track system
- Black or white fine-textured standard finishes (other colors available)
- 3000K or 4000K
- Delivered efficacy of 59.4 lm/W

About Eureka

Since 1987, Eureka has been working relentlessly to enhance the environment of the end user with compelling lighting solutions. Eureka's passion for designing and manufacturing best-in-class, distinctive, specification grade decorative luminaires enables lighting designers, designers and architects to transform their concepts into reality. Their multi-award-winning contemporary lighting products are available throughout North America.

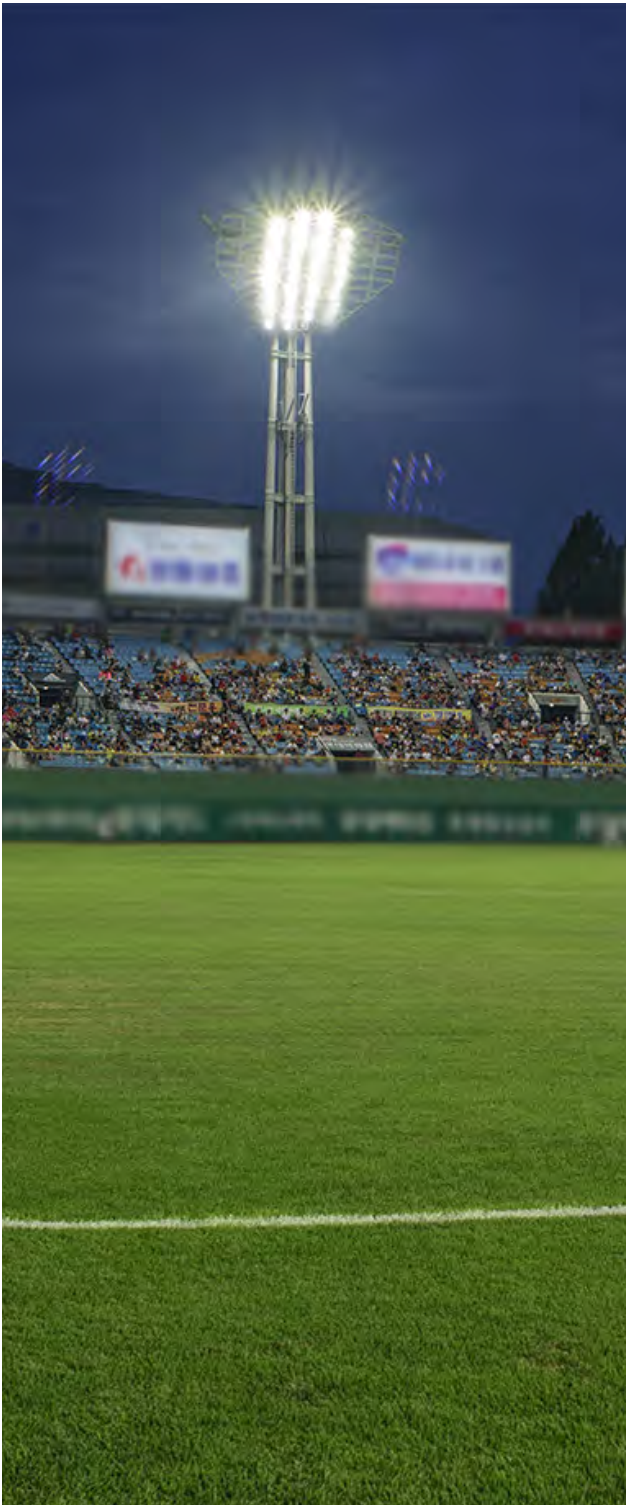
About The Luminaires Group

The Luminaires Group (TLG) is a leader in the specification-grade lighting industry. Through its unique niche brands (a-light, Cyclone, Eureka, Luminaire Led and Luminis), TLG provides a wide range of innovative lighting solutions for both interior and exterior use. Each company within TLG has a deep connection to the market segment it serves - designing, developing and manufacturing some of the industry's most innovative products.

Find out more about the Luminaires Group at www.luminairesgroup.com.

Argus from Yaham lighting, your ideal solution for professional outdoor sports light

By YAHAM Optoelectronics Co., Ltd
www.yahamlighting.com



It is known to all that the objective environment greatly affects the state of competition and play in the real world. In the outdoor sports arena, sports competitions are generally intense and attractive. It requires a particular skillset and teams to participate in the game with competition. It is a game with its own strategy and will create suspense in every minute. However, the competition situation is always subjected to various outdoor factors. One of the most important factors is lighting conditions.

With decades of experience in designing and developing innovative lighting systems, Yaham Lighting developed a new product, Argus, for professional outdoor sports including soccer, baseball, lacrosse, etc. in order to present the competition effect better. Specially for 4K and HD Broadcasting, recording for optimal television and live audience viewing effect.

Benefits:

- **TLCI>95**, easier for broadcasters to set up their cameras correctly and makes TV audience feel immersive.
- A variety of intelligent control optional (such as DMX, PLC), can scientifically manage sports lighting.
- Advanced Hi-G technology maximizes heat dissipation for a longer life of the luminaire.
- Glare-free illumination avoids light pollution and any uncomfortable sensation or discomfort for the athletes with glare shield.
- Proprietary optics produce the ideal light distribution for sports lighting, simultaneously high light efficiency saving you up to 65% in energy use compared to traditional sports lighting.
- No electrical interference state-of-the art circuit system working perfectly with other systems, ultra-low EMI noise generation eliminating electrical interference.

Photo Credits: YAHAM Lighting



Model No.	YHL-PO5-400	YHL-PO5-500	YHL-PO5-600
Rated Wattage	400W	500W	600W
Luminous Flux	56,000lm	70,000lm	84,000lm
Dimensions(mm)	φ400×H490		
Rated Voltage	AC100~277V , 50/60Hz		
Power Factor	>0.95		
Efficacy	140lm/W		
CCT	3000K/4000K/5000K Optional		
CRI	75Ra (≥85Ra Optional)		
Beam Angle	15°/25°/60°		
Warranty	5 years		
Protection Rating	IP66		

Outdoor sports lighting is both an art and a science. Lighting always plays an indispensable role. Argus will help you to have a perfect play in sport stadiums. Yaham Lighting always offers the highest quality products at the most affordable prices for you!

SOSEN LED Driver - Your Smart Choice

By Shenzhen SOSEN Electronics Co., Ltd
www.szsosen.com

VB series

SOSEN rectangular VB series LED driver is programmable, operate from 100-277Vac, specially designed for LED public lighting and LED industrial lighting with IP67 and 10kV/6kV surge protection. All series have UL listed mark with Class P/ENEC05/CE/CB/RCM/Type HL rated.

- 100-277Vac; 50-240W
- UL/Class P/ENEC05/CE/CB/RCM certified
- 10kV/6kV surge protection
- 3-in-1 isolated dimming
- IP67, 5 years warranty
- Programmable,CLO,ELA,SSA



PV series

SOSEN plastic case PV series LED driver is specially designed for LED commercial lighting and LED moving sign with IP65 and 2kV(L-N) surge protection, operates from 100-240Vac, All series have UL listed mark with CE rated, Class II design.

- 100-240Vac, constant voltage
- UL/CE certified
- 2kV(L-N) surge protection
- Class II, plastic case
- IP65, 3 years warranty
- Constant voltage(12Vdc/24Vdc optional)
- Power range: 40W/60W/100W/150W





LED TRI-PROOF LIGHT

By YAHAM Optoelectronics Co., Ltd
www.yahamlighting.com

Plug-and-play design make our tri-proof light easy to install and maintenance, which made with special corrosion-proof materials and silicone sealing ring to realize protection requirements for the fixtures. It's waterproof, robust and versatile. Most notable is the CCT adjustable, reducing stock and realizing high energy efficiency.

- Multi Watts: 20W /40W/60W
- High Efficiency: 140lm/W
- Long LED Lifespan: >100000 hours
- CRI: ≥75Ra
- CCT: 5000K (2700K/3000K/4000K/5700K optional)
- Beam Angle: 120°
- Rated Voltage: AC100-240V, 50/60Hz
- 5 Years Warranty



MAST LIGHT

By Garden Trading
www.gardentrading.co.uk

Simple. Compact. Versatile. Light up all areas of the garden with the sleek Mast Light. In a choice of finishes to suit your space: modern Powder Coated Steel in Charcoal, Rustic and weatherproof Hot Dipped Galvanised Steel, or Robust Raw Copper that will patina over time. Use it to light up the flowerbeds, either side of your doorway or fence posts and garages.

ECO CITY 700 LED BOLLARD LIGHT

By The Light Yard
www.thelightyard.com

The Eco City 700 LED Bollard has been designed to shine light down onto a path or road and is an ideal bollard light for both commercial and residential use. It is the perfect exterior bollard light for discreet lighting of paths, gardens, driveways, patios, walkways around the home, hotels and commercial landscape lighting. It is made from extremely durable, solid Moso bamboo and it is supplied with a stainless-steel fixing plate for easy and hassle-free installation. Available in 110v or 230v.





OVERLAY

By Analogia Project
www.slamp.com

The Slamp and Montblanc 'overlay' writing lamp's highlight is the playful and very sensual design of the main light component. Hidden beneath the brass connection and the brushed copperflex® shade, its illumination acts upon the interaction between the innovative magnetic rest and any Montblanc writing instrument. When removed, the lamp automatically turns on and then turns off again when the pen has been placed back.



ALÌ E BABÀ

By Karman
www.karmanitalia.it/en/

Wall lamps Alì e Babà have an Arabian-style silhouette, that's why designer Matteo Ugolini named the collection after famous ancient Persian folk tale. The small wall lamp creates the effect of table lamp hanging off the wall; the long version creates the illusion of a floor suspension lamp, like a magical fairy tale. Their structure and lampshade are made of raw white ceramics. It can be painted or decorated in your favourite colour, or available in white lacquered ceramic, with the lampshade in white linen fabric for a softer light.

ATMOSFERA

By Lorenza Bozzoli
www.slamp.com

Atmosfera lies at the apex of fashion and design, where light melds into fabric. The new collection of table lamps are available in 2 sizes, with pink or grey Charleston-style fringe or a metallic version where superimposed technopolymer layers create a polkadot effect. The lamps have independent switches in the sphere and base; the courtesy light is ideal for a late-night return home. Also available in a suspension lamp.





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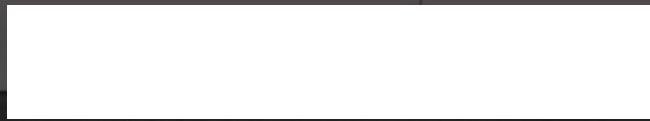
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