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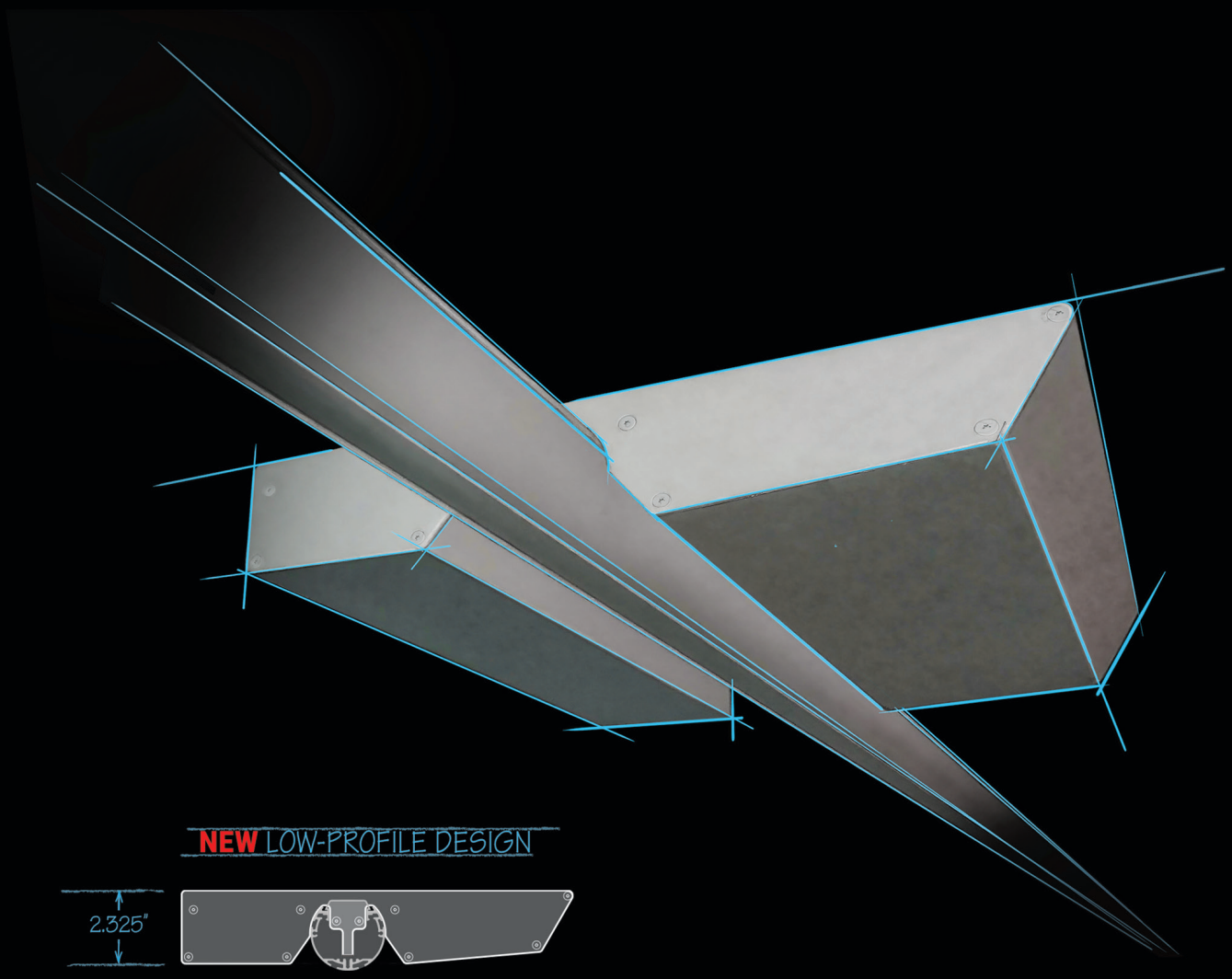

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FIRST UP

PLUS

Photo: Ryan Jamias

FEATURES

On The Cover
Bright ideas ahead: unveiling the 2025 IES Progress Report.
Images: iStockphoto/francescoch and the IES

EDITOR'S NOTE

Becoming

As I began writing this editorial, I received word of the passing of the legendary Robert Redford. One of the most iconic images from his storied career is his portrayal of aging baseball player Roy Hobbs in *The Natural*, rounding the bases beneath a shower of sparks after launching a light-shattering, pennant-clinching home run against the Pittsburgh Pirates. Director Barry Levinson's slow-motion shots of Hobbs' victory lap serve as a poignant reminder to pause and savor the moment.

In many ways, the IES Progress Report mirrors the spirit of sports: we celebrate the team (manufacturer/product) and the achievement (technology/approach) and then quickly shift our focus to the next goal. Each Progress Report marks a step on an ever-evolving scale of innovation. But perhaps it's worth slowing down—without the exploding luminaires—to reflect not only on where the industry stands and where it's headed but also on the remarkable progress made over decades.

It's also essential to recognize the invaluable contributions of the IES Progress Committee Members, whose dedication makes this report possible. Special thanks to committee member and IES Fellow John Green, who plays a vital role in helping *LD+A* collect and share the year's accomplishments. With 43 years of work on the Progress Report, Green exemplifies the enduring commitment and impact of IES volunteers.

> Beginning in January 2026, *LD+A* will enter a new phase of becoming—with a refreshed look, new voices, and themed issues that reflect the evolving landscape of lighting

As we approach the final stretch of 2025, *LD+A* has celebrated its own milestones, with recognition from both Folio and TABPI (Trade, Association, Business Publications International) for editorial and design excellence. We hope this visibility continues to elevate the amazing projects and thought leaders shaping the lighting industry.

With a strong year nearing its close, it's time for my annual "couch-hopping" exercise. (Not the nutty Tom Cruise variety—more introspection than acrobatics.) And while I'm on the couch, I'm reminded of a quote often attributed to Swiss psychologist Carl Jung: "I am not what happened to me, I am what I choose to become."

Beginning in January 2026, *LD+A* will enter a new phase of becoming—with a refreshed look, new voices, and themed issues that reflect the evolving landscape of lighting. We hope you'll continue to join us on the journey.

Craig Causer
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Brooke Ziolo
is president and executive recruiter for Lighting, Lighting Design, and Lighting Controls at Egret Consulting (*www.egretconsulting.com*). **p.14**

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IES INDUSTRY PROGRESS REPORT 2025 SELECTION

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Epic

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HALO
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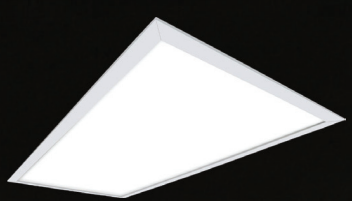

Fail-Safe
FLR/FLR2

For the 15th time in 17 years, Cooper Lighting Solutions has been recognized in the IES Progress Report. Six products were selected in 2025 for their meaningful advancements in the art and science of light. From healthcare and cleanroom environments to architectural downlights and outdoor spaces, our innovations solve real challenges for lighting professionals. We deliver smarter design, unmatched performance, and transformative impact for the spaces of today and tomorrow.

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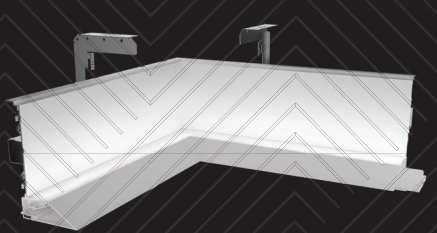

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INSIGHTS

Full Circle • Grow Light Report • Life Is a Cabaret

Photo: Courtesy of Zentia

Built for Creativity

A bespoke ceiling lays the groundwork for innovation and design

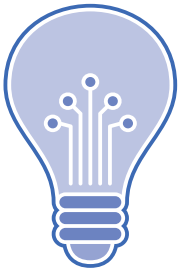
UK lighting solutions manufacturer Light Forms teamed with Zentia, a UK manufacturer of mineral fiber acoustic ceiling solutions, to enhance a meeting room at Material Source Studio (MSS) in Manchester, England. MSS serves as a creative space for design professionals and features installations from myriad brands while hosting seminars, workshops, product showcases, and networking opportunities. The triangular ceiling lighting solution, a DecoFrame Kit Classic Canopy, Gridline, proposed by Zentia Solutions Design Manager Nick Harper, was tailored to its environment with the inclusion of Light Form's Trifecta, a slimline ceiling light developed to fit Zentia's design. The overall effect of the LED backlit design encourages creative inspiration while providing functionality, acoustic benefits, and a comfortable ambience. Following Trifecta's successful launch, Light Forms has developed it as a product to sell with various color temperature options and multiple diffusers—returning full circle to the intended use of the innovation hub at MSS.

Report Published on Full Spectrum LED Grow Light Market

Research and Markets published *Full Spectrum LED Grow Light Market by Product Type (Bar Type, Panel Type), Application (Home Gardening, Industrial Cultivation, Research Facilities), Cultivation Technique, Wattage Range Distribution Channel – Global Forecast 2025-2030* in late summer. The 186-page report includes analysis of key trends and emerging opportunities in horticultural lighting in the Americas; Europe, Middle East, and Africa; and Asia-Pacific, with details on sub-regions in each location, as well as trends from companies such as California LightWorks, Inc.; Gavita International B.V.; Fluence Bioengineering, LP; Heliospectra AB; Hydrofarm Holding Group, Inc.; Illumitex, Inc.; Lumatek Limited; OSRSM Light AG; Signify N.V.; and Valoya Oy. Find the full report on *www.researchandmarkets.com*.

Photo: Adrew Ogilvy and Savvy Group

UK-based mechanical and electrical consulting engineer CBG Light Perceptions received the 2025 RIBA (Royal Institute of British Architects) South Award for its overhaul of the lighting scheme inside the Orangery, a high-end dining area in Blenheim Palace in Oxfordshire, England. The scheme enhances energy efficiency, reduces glare, and complements the site's new architectural ceiling.



15.36%

The expected CAGR of the smart LED lighting market.

Source: Research and Markets

MERGERS AND MORE

- **DMF Lighting**'s Artafax Linear has been named the winner of the *2025 Wallpaper** Smart Space Award in the Most Illuminating Lighting category; the awards program honors the most forward-thinking products that elevate digital lifestyles and redefine home spaces.
- **Leviton** has launched a Submetering Pro Certification program for contractors working in the commercial, industrial, and multi-family sectors.
- **Moment Factory**, a multidisciplinary immersive experience design firm, teamed up with **Dells Boat Tours** in Wisconsin for the 2025 spooky season to aid in the popular Ghost Boat scare attraction.

Photo: Michele Zimmerman

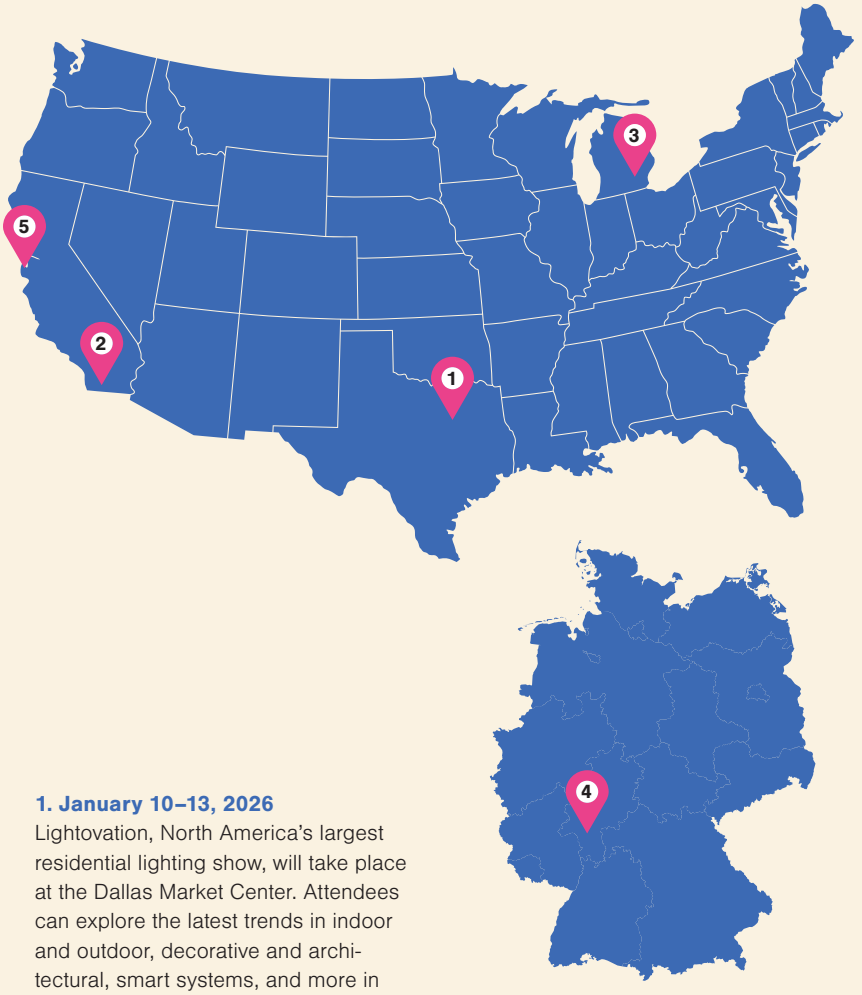
Seen By Staff
Color-changing stage lights at the cabaret-style Laurie Beechman Theatre in New York City.

THEY SAID IT:

"Indoor lighting can significantly influence how people experience music,"

Seonghyuk Son, Jaw Yong Suk, Kristina Knowles, Dongwoo (Jason) Yeom, "Research," p. 46

EVENTS



1. January 10–13, 2026
Lightovation, North America's largest residential lighting show, will take place at the Dallas Market Center. Attendees can explore the latest trends in indoor and outdoor, decorative and architectural, smart systems, and more in home lighting.
www.dallasmarketcenter.com

2. February 5–6, 2026
Illuminate 2026, the Association of Outdoor Lighting Professionals' annual conference and expo, will be held at the Westin Carlsbad Resort & Spa in California. The event will include hands-on education sessions, new products and technologies, and the AOLP Lighting Awards.
https://aolponline.org

3. March 5, 2026
The IES Detroit Section Product show will be held at Laurel Manor in Livonia, MI. Featuring more than 100 exhibitors, the event allows attendees to experience the latest in lighting and electrical innovation.
http://www.ies.org/section/detroit

4. March 8–13, 2026
Light + Building will be held in Frankfurt, Germany. The 2026 show's tagline is "Be Electrified—Electrifying Places. Illuminating Spaces."
https://light-building.messefrankfurt.com

5. June 25, 2026
The IES San Francisco Section's Light! Design Expo returns to Pier 27 on San Francisco's Embarcadero. This annual expo showcases the latest in architectural lighting products and attracts a wide range of exhibitors and design professionals.
https://lightdesignexpo.com

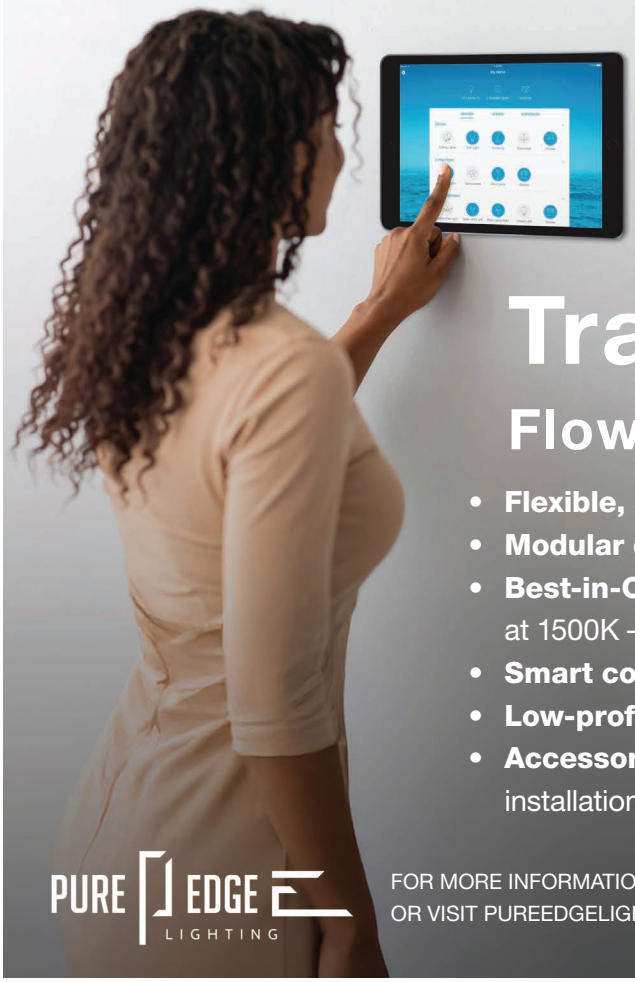


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Photo: Amanda Pearson

❶ Programmable neon fixtures mimic energy flow and highlight specific areas of the playful space.

❷ Downlights provide even task lighting throughout workstations.

❸ Existing fixtures were retrofitted with LED lamps and the initial control system was adapted with a new DMX system to meet the project's budget constraints.

HOW THEY DID IT

IES ILLUMINATION AWARD OF MERIT

"Mayor Clayton's WonderLab"

Lighting design by **Visual Terrain, Inc.** adds flair and task lighting to a renovated, immersive STEAM lab for children in Kissimmee, FL, that focuses on hands-on learning activities such as science experiments, technology demonstrations, and art projects.

CAREERS

Brooke Ziolo

Recruitment Faux Pas: When hiring turns into self-sabotage

In *LD+A*, July 2025, I wrote about the tides shifting toward a more balanced job market; course correcting from the hyper candidate-driven landscape that followed the pandemic. At the time, it appeared that both employers and candidates were finally meeting in the middle. Unfortunately, the pendulum now seems to be swinging too far the other way, leaning into indecisiveness—or even arrogance—on the hiring side.

This year, we've seen a noticeable increase in employers dragging out the hiring process and extending poor offers. As a consultant/recruiter with over 26 years of experience in the lighting industry, I know what works in hiring—and what doesn't. That's why it's so frustrating to watch companies undermine their own success with easily avoidable mistakes.

As recruiters, we invest the time to fully understand a position: the position requirements, selling points of both the role and company, challenges employees face, and available opportunities in that company. We identify the right candidate—the one who excites the client and matches their needs. And yet, when it comes time to make an offer, the client makes a move that sabotages the process.

One recent example illustrates the point clearly. A candidate sought a $140,000 base salary—within the client's stated range. Yet the client offered $100,000. Not surprisingly, the candidate declined and instead accepted a competing offer for $150,000. Beyond losing a strong hire, the employer left the candidate feeling undervalued, disrespected, and skeptical about how they might treat employees and customers, damaging their reputation as an employer. Worse, the company lost a strong candidate to a competitor.

Why Time Matters

There's an old saying in sales: time kills deals. It's been repeated so many times because it remains true. Lengthy hiring processes, multiple rounds of interviews stretched over weeks, or gaps in communication all send the wrong signal.

Candidates often interpret these delays as disinterest or even worse, indecision. If a company appears indecisive during hiring, candidates are left wondering what other decisions will stall once they are employed there.

If a company appears indecisive during hiring, candidates are left wondering what other decisions will stall once they are employed there

Photo: iStockphoto/DNY59

At the same time, speed without thought can be equally costly. James Golon, managing director and vice president of Sales at Waldmann Lighting North America, said, "The worst thing you can do is rush to hire because of deadline pressure. A bad hire forces you to start over, which costs far more time than making the right decision the first time."

The lesson is balance—move decisively, but never carelessly.

Reputation in a Tight-knit Industry

The lighting industry is a small, well-connected community where word spreads quickly. Employers who gain a reputation for being slow, dismissive, or unfair in their hiring practices risk more than missing out on a single candidate. They are gambling with their reputation across the industry, making it even more difficult to attract the best talent in the future.

The good news is that most of these pitfalls are avoidable with a structured, transparent process so candidates know exactly what to expect. Here's a simple checklist to get it right:

- Define the role clearly with a solid job description:
  - Summarize the company and its strengths.
  - Outline day-to-day

(*continued on p. 16*)

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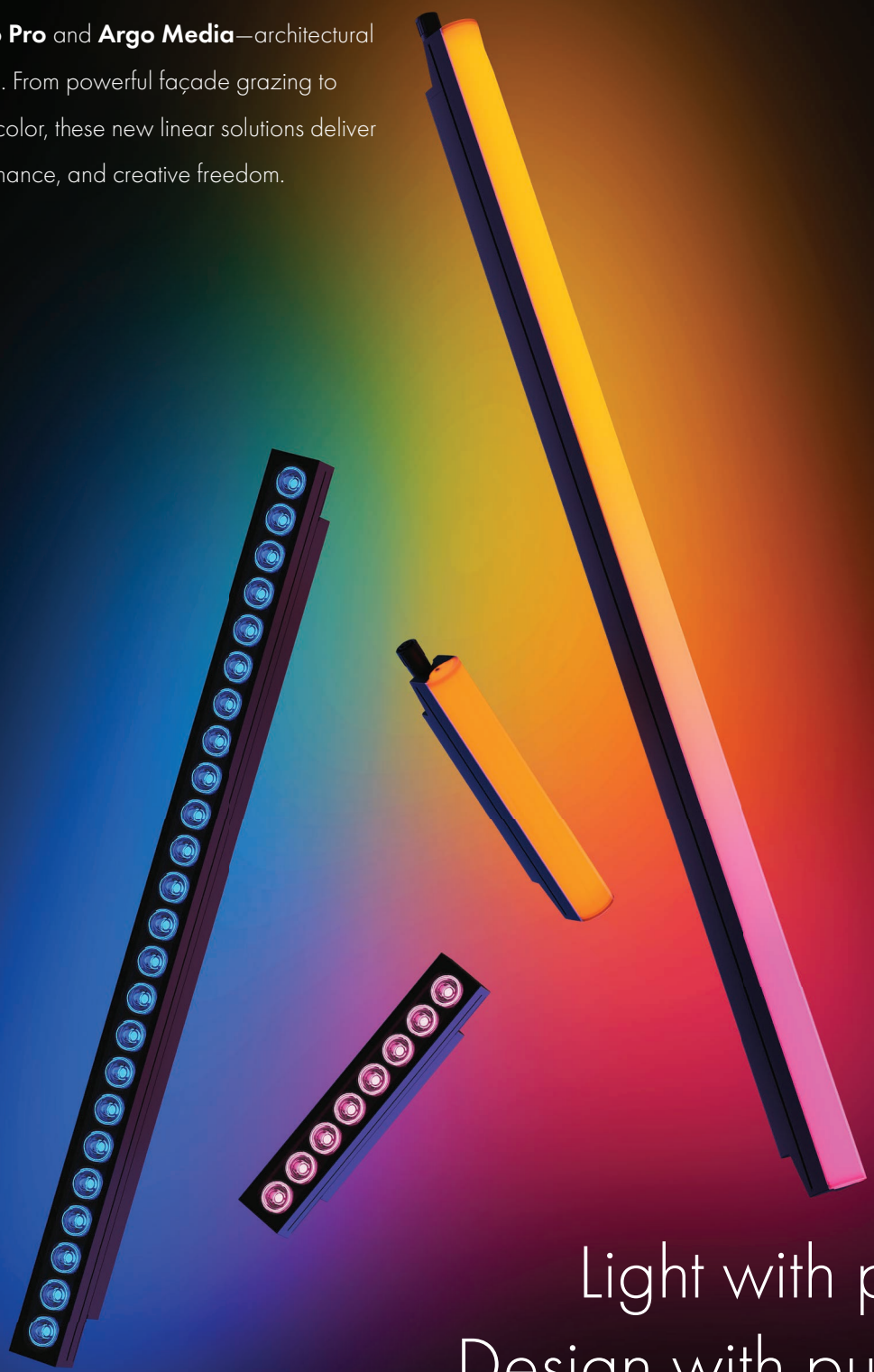

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MARATHON

(*continued from p. 14*)

responsibilities.
  - Set measurable goals.
  - Include any requirements for the position, such as travel, necessary degrees or certifications, etc.
  - QTL CEO Gean Tremaine explained, "We integrate our core values directly into the hiring process by tailoring interview questions to evaluate how candidates align with and demonstrate those values."
- Map out the interview process:
  - Decide how many interviews there will be and what format they'll take (phone, video, or in person) and who all will be involved. Golon noted, "I like to have candidates add value—it's important to gather feedback and listen to it."
  - Ensure that all interviewers have availability within two to four weeks of starting the search so the process doesn't stall.
- Clarify any testing requirements:
  - If any assessments, background checks, or drug screens are required, explain how long they will take, where they're completed, and if they can be done remotely.

This level of organization signals to candidates that companies are prepared, professional, and serious about bringing the right person on board.

The Takeaway

Hiring is, and will remain, competitive. The best candidates will not wait indefinitely, nor will they accept offers that undervalue their skills. Employers who act decisively, communicate clearly, and extend fair offers not only win talent—they build reputations that attract future candidates.

And sometimes, the best guide is still your own experience. As one executive advised, "At the end of the day, you have to trust your gut. With experience comes instincts—if something feels off in the hiring process, listen to it."

Brooke Ziolo is president and executive recruiter for Lighting, Lighting Design, and Lighting Controls at Egret Consulting (*www.egretconsulting.com*).

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DIVERSITY

Mariel Acevedo

IES DEIR Committee Now: Persistent steps, big strides, and current challenges

In 2020, when the IES Diversity, Equity, Inclusion, and Respect (DEIR) Committee was created—in response to the murder of George Floyd and other pivotal events—its mission was to serve as an advisory committee to the Board of the IES at large on how to make our Society a place where everyone felt welcomed and safe and had the ability to learn. This work started with a membership survey to uncover hard data of the composition of the Society and why people in the industry do or do not participate in IES events. The answers and comments given led to partnerships with other groups and associations creating the sparks that ignited groundbreaking programs like the WILD Mocktail Initiative and The Lamplighter Coalition.

We have also partnered with other associations to create education programs such as Light Justice Symposium: Outdoor Spaces in 2022 and Indoor Spaces in 2024 and The Business of Lighting: Why Diversity Matters, which can be viewed on the IES eLearning portal. We've helped create social networking opportunities such as The Social Advocacy Social held at LightFair 2023 in New York City and LightFair 2025 in Las Vegas. These socials led to an exchange and alignment of resources and ideas; for example, advocacy tables have been shared by WILD, NACLIQ, Light Justice, BUILD, and IES DEIR both at IES25: The Lighting Conference and other events. We encourage you to visit their websites, engage with these organizations, as well as learn about their missions and how you can support their work.

We have also worked on advising and coordinating with the IES Illumination Awards Committee on how we judge our awards and what kind of projects we are celebrating, encouraging the industry to be conscious of how lighting design impacts the community it is serving. As of 2025, a new impact statement was added to the questions submitters must answer: "How does this project positively enhance or impact the community it is serving?" This additional scored question has replaced the discretionary points judges could previously award a project.

These seem like big strides, but they don't come without smaller, persistent steps toward incremental progress; progress that we could not achieve without the support of the IES Board and Membership and that is propagated by our alliance with other organizations. We believe that in times of division, acts of unity are important and necessary.

> "As Members of the IES, we challenge each of you to question the projects on which you are working

Photo: iStockphoto/Etalbr

We ask you to look around at your office and your places of recreation, worship, and education. Not everyone feels safe. Many in our community didn't attend this year's conference because they were afraid of traveling at this moment. If we really intend to be an international, welcoming organization, we need to create that space and be that model.

If you have questions on how to keep your workers safe, there are resources available from state attorneys' offices, law firms, and nonprofit organizations that are doing this work. If you are feeling concerned or threatened, we can share resources and a safe space—please reach out to the DEIR Committee Members or visit our website at *www.ies.org/about/diversity-equity-inclusion-respect/*.

Pushing Boundaries

One of the obstacles we have faced as a committee is motivating membership to do more diversity and inclusion work, push boundaries, and question

pre-conceived notions, while acknowledging that it's neither easy nor convenient. With that in mind, a call to action: As Members of the IES, we challenge each of you to question the projects on which you are working.

- Are you incorporating responsible design and light justice into your daily practice?
- Ask yourself, how can you advocate through your work for sustainability principles that benefit everyone, not just stakeholders?
- As an individual, how can you support those who don't have a voice? How are you encouraging empathy and equity in your workplace and in your community?

On a personal note, I would like to thank the committee that does this amazing work for allowing me the honor of serving as its chair for the past two years: Edward Batholomew, Quincy Drane, Mariana Guzman, Peter Hugh, and Elizabeth Williams as well as Colleen Harper for her unwavering support. It has been a privilege.

Mariel Acevedo, LC, Member IES, has served in the lighting industry for more than 20 years and currently works as specification sales for ALR in Portland, OR. She is the chair of the IES Diversity, Equity, Inclusion, and Respect Committee; vice-chair of the IES Steering Committee; and a 12-year Member of the IES Leadership Forum.

DEIR Resources

Navigating workplace challenges and advocating for equity can be complex. These resources are here to support individuals and organizations in fostering safer, more-inclusive environments across the lighting industry and beyond.

Immigration

- Legal aid: Organizations are available in nearly every state. Reach out to your local chapter if you need legal services related to job or immigration.
- Immigration Center for Women and Children: *http://www.icwclaw.org*
- National Employment Law Project—What to Do If Immigration Comes to Your Workplace: *http://www.nilc.org/resources/a-guide-for-employers-what-to-do-if-immigration-comes-to-your-workplace/*
- National Immigrant Justice Center—Know Your Rights: If You Encounter ICE: *https://immigrantjustice.org/for-immigrants/know-your-rights/ice-encounter/*

Sexual Harassment and Violence

- The Lamplighter Coalition—providing awareness around sexual harassment in our industry: *https://womeninlightinganddesign.org/lamplighter/*
- Right to Be—bystander training: *https://righttobe.org/training/bystander-intervention-training/*

Equitable Lighting Resources

- Light Justice: *https://lightjustice.org/resources-all*
- Equity in Lighting: *https://www.equityinlighting.org/*

Affinity Groups:

- Black United in Lighting & Design (BUILD): *https://www.buildlighting.org*
- North American Coalition of Lighting Industry Queers (NACLIQ): *https://nacliq.org*
- Asian Lighting Community: *https://www.linkedin.com/*

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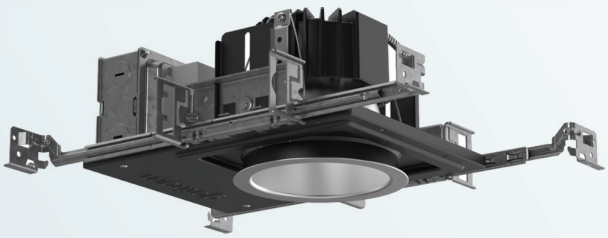

The IES Progress Committee's mission is to keep in touch with developments in the art and science of lighting throughout the world and prepare a yearly report of achievements for the Society. Acceptance is based on an impartial judging process used by the committee to evaluate each submission on its uniqueness, innovation, and significance to the lighting industry. There were 129 submittals in 2025, and 88 were accepted into the report.

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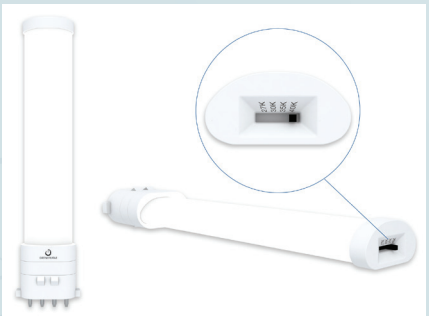
2025 | PROGRESS REPORT

LED CHIPS AND PACKAGES

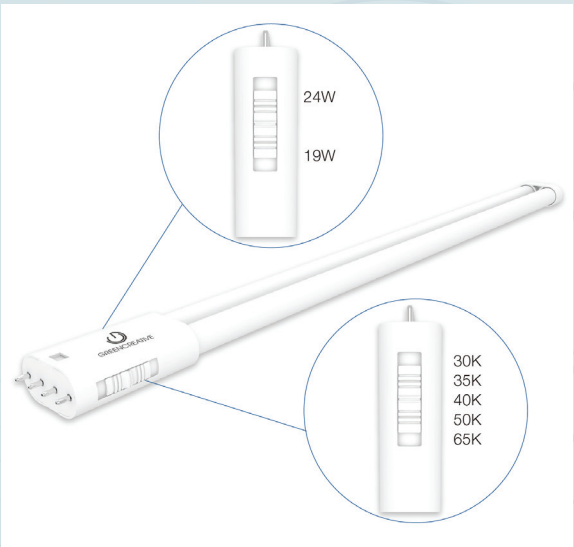
Modular International Incorporated's tunable-white LED modules are recognized as the industry's most efficient collective product offering on the market. Available in 70- and 90-millimeter diameters and 13- to 90-deg beam angles, the tunable-white modules with a CCT range of 2700K to 6500K can integrate into 400,000 possible combinations within the manufacturer's portfolio of downlights, multiple, pendant, and custom-engineered luminaires.

The ORB family of LED drivers from **Arkalumen** are the first products of their kind to integrate tunable spectra control features into a fully modular Zhaga-based form factor that is 50 millimeters in diameter and 8 millimeters high. Each ORB is a multi-channel, constant current driver with up to five precisely controlled output channels, a holder for one of many different tunable-white or tunable-color LED arrays, and a platform for mounting various TIR optics and reflectors. A full range of control protocols are available including Bluetooth mesh with embedded antenna, DMX/RDM, and 0-10-V. When integrated at the base of the fixture, the ORB's ultra-thin profile dramatically enhances wireless communication range.

LED RETROFIT LAMPS



GREEN CREATIVE's CCT Select Bypass and HYBM PLS LED lamps are recognized for an industry-leading lifetime of L70-rated, 70,000 hours. Available in G23 and GX23 base types, which are compatible with magnetic ballasts or G23, GX23, 2G7, or 2GX7 types for ballast bypass installation, the lamps also feature a selectable CCT range from 2700K to 4000K.



Power and CCT select Hybrid PLL lamps from **GREEN CREATIVE** are a first-to-market LED replacement for 50- or 55-watt, 4-pin 2G11 base compact fluorescent lamps. The lamps can be installed directly with compatible instant start or programmed rapid start electronic ballasts or by bypassing the ballast and connecting directly to line voltage input. They have selectable wattage features, a selectable CCT ranging from 3000K to 6500K, and an average L70-rated life of 50,000 hours.

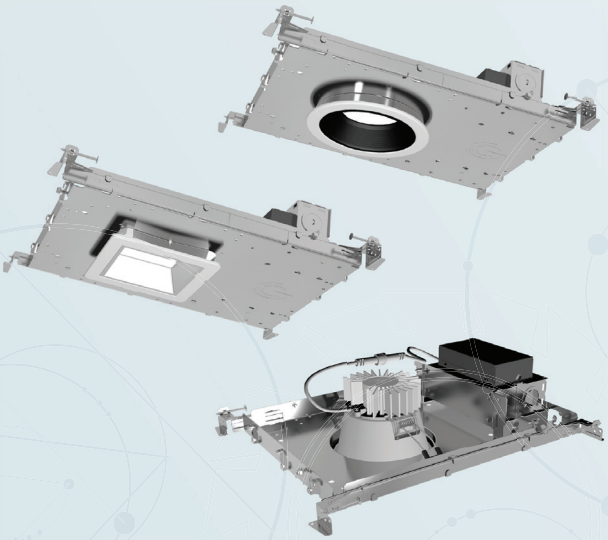
GREEN CREATIVE's AdjustaPAR PAR38 HO is a line extension to the family of products accepted in 2023 for an increased life rating of L70, 50,000 hours. The lamps may be operated through a range of 120 to 277 volts, have two field-selectable beam angles of 25 or 40 deg, a selectable CCT range from 2700K to 5000K, and 92 CRI.

The **MaxLite** VersaMax Modular UL Type B 8FT T8 LED lamp is the first to offer flexibility with field-selectable wattage of 24 to 40 watts and a CCT range of 3000K to 6500K, with a default setting of 32 watts and 4000K. Its modular design uses two interlocking 4-ft tubes for easy installation.

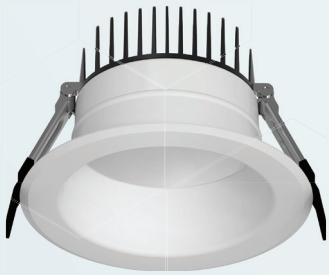
At up to 106,000 lumens and 208 lm/W, **Current**'s high-output BT56 lamp is accepted as having the highest lumen output and efficacy for an HID replacement lamp of this form factor. These lamps permit replacement of up to 1,500-W metal halide lamps with energy savings of up to 75% and three to 16 times longer life.

Warm SpectraChoice Selectable LED Lamps from **Current** are the first LED replacement lamps with selectable color temperature options at 1800K, 2200K, and 2700K, providing a source that aligns with high-pressure sodium appearance. Their lengths are within ANSI specifications for the ED17 and ED28 shape, ensuring proper fit in luminaires designed for HPS lamps. Selectable lumen output ranging between 6,200 to 11,000 lumens allows for additional flexibility.

LUMINAIRES – DOWNLIGHTS



GREEN CREATIVE's Shallow High-Output 4-in. NYX Downlight is the shallowest in this category to have both CCT selectability and tunable-white functions. CCT can be changed with an integrated switch, and tunable-white color temperature variation is offered via app-based control. The luminaire depth is just under 3.5 in. and it has a selectable light output of up to 4,000 lumens.



The 8-in. aperture CRX canless downlight from **RAB Lighting**, which has an output of 9,000 lumens at 122 lm/W, is acknowledged for having the highest output and efficacy in this product class. The luminaire also features five adjustable CCTs, adjustable wattage, and universal dimming via TRIAC/ELV or 0-10-V input.

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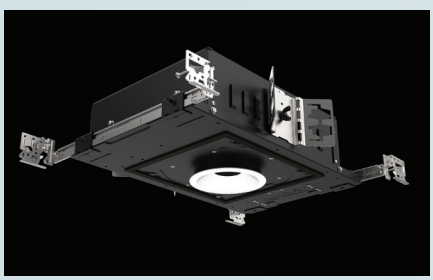
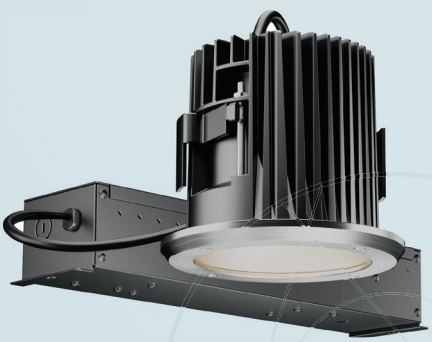
LUMINAIRES – DOWNLIGHTS

RAB Lighting's WFRX is the first wafer downlight to combine universal input voltage and phase-cut dimming with field adjustable wattage and CCTs. They also offer high efficacy of up to 121 lm/W, are available in 4-in. and 6-in. apertures with lumen output ranging from 675 to 1,500 lumens, and five selectable CCTs ranging from 2700K to 5000K.

Cooper Lighting Solutions' HALO brand ML Flex Family of canless downlights, wall washers, and adjustable accent luminaires are recognized as the first canless family to feature 1-, 2-, 3-, or 4-in. aperture luminaires with interchangeable TIR optics, media, and glare-reducing 55-deg full cut-off trims. The downlights include flush-mount mud-in flanges where the entire fixture and driver can be removed through the mud-in opening without damaging the ceiling.

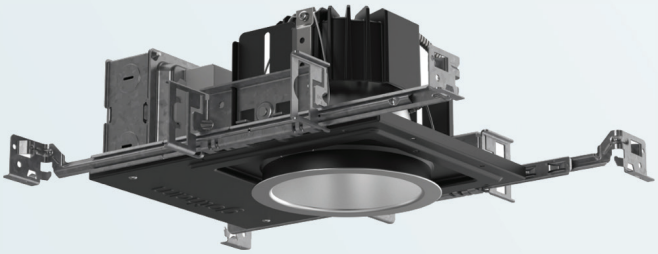


Acuity Brands' Aculux AX3, 3-in. aperture, very-narrow spot downlight is accepted for its exceptional center beam candlepower of 32,000 candela and 5-deg beam. Engineered with advanced optics, the luminaire delivers minimal field light, ensuring a clean, sharply defined beam with virtually no spill. This precision minimizes visual noise and enhances contrast, allowing designers to sculpt light with surgical accuracy. It is particularly valuable in museums, galleries, luxury retail, and wayfinding applications, where controlling the viewer's focus and preserving surrounding darkness are critical to the experience.



The REV Hydro 6 is a recessed downlight with waterproof design from **Meteor Lighting**. It is the most compact high-output recessed downlight in its class and produces an industry leading output of up to 7,200 lumens. It features a fully sealed, enclosed housing and remote power box designed to withstand water ingress from any direction, making it suitable for both exposed and embedded outdoor installations. Additionally, the RGB+W version is the only one to offer color changing in this product category.

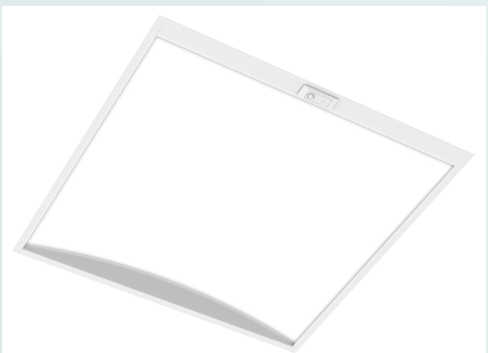
From **PreciseLED**, the Novation Uno is the first downlight with an integral driver that has a plaster trim, allowing for the fixture to truly blend into the architecture of the space. Once the trim is painted over, it no longer can—or needs to be—removed, as all serviceable parts can be removed via the small aperture. The luminaires can be grouped and clipped together to make setups of one, two, three, or four fixtures adjacent to each other and are available with multiple beam angles and optional accessories.



Gotham Lighting has expanded its IVO series, which was accepted in the 2024 Progress Report, to include field-changeable optics offering significantly more beam angles ranging from 10 to 60 deg in 5-deg increments. The product is available in CCTs ranging from 2700K to 5000K while delivering exceptional color consistency with a tolerance of ½ step MacAdam ellipse. Nine standard reflector colors are available.

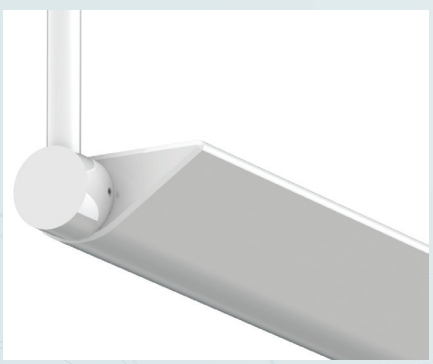
The **Amerlux** Hornet 2.5-in. downlight family is the first solution in its size class to combine high-performance LED technology with superior glare control. These luminaires deliver up to 1,984 lumens at 106 lm/W and greater than 6 UGR. The family incudes fixed downlights, adjustable accents, and wall washers with round, square, or flangeless mud-in trims. The adjustable version has a unique mechanism that shifts to minimize beam clipping and flash on the reflector.

LUMINAIRES – TROFFERS



The ArcForm Duo and Pique Duo from **Signify–Genlyte Solutions–Ledalite** have the highest efficiency of 152 lm/W for a full family of architectural recessed troffers. Available in 2-by-2, 2-by-4, and 1-by-4 configurations, they are fully luminous luminaires. They include a layer of precision MesoOptics film that creates a batwing distribution and have UGR options down to 16. They also support several integrated controls options, DLC standard and premium configurations, and have a Declare label listing.

LUMINAIRES – LINEAR



The Lighting Quotient introduces the Elliptipar S107 miniature profile linear wall/pendant with asymmetric distribution uplight and adjustable aiming. It has the highest lumen output in the smallest form factor for a linear asymmetric indirect product. The luminaire delivers over 3,000 lumens per ft at 2700K and 90 CRI, as well as 3,800 lumens per ft at 4000K at 90 CRI.

The Renew Linear Luminaire from **Pinnacle Architectural Lighting** provides material innovation as the first linear luminaire with a hybrid aluminum spine and FSC wood panels that can be removed. Renew reduces used aluminum by 63% and enables circularity via replaceable outer materials without impacting the structure performance or code compliance of the luminaire. This is the first linear luminaire with a removable material side-panel system, enabling material reuse and recycling at the end-of-life or future updates using new finishes without replacing the core structure or performance of the luminaire.

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LUMINAIRES – LINEAR

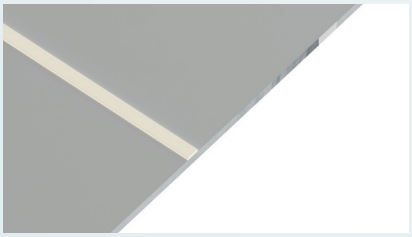
RAB Lighting introduces the C-Strip: the first sustainable, field-adjustable strip light that includes a unique housing composed of bio-renewable materials including coffee chaff, seashells, and recycled plastic. It was designed with an innovative interior hinge that allows for the fixture to fold in half to minimize shipping materials and carbon cost for 8-ft fixtures. The C-Strip provides the highest efficiency of 155 lm/W for field-adjustable strip lights.

The Peeta from **Selux Corporation** is a fully sealed luminaire that can achieve IP65, IK10, and has a 3G rating for interior or exterior installation. It's fully sealed for up to 12-ft water depths and provides a wet location label. The tri-extruded lens seals along the length, while the proprietary sealing endcaps keep the fixture enclosed at the ends and joints. The Peeta validates transparency and sustainability by highlighting its Declare label.

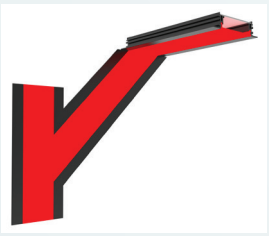
Modular International Inc.'s Integrated Recessed Linear Trough system is completely customizable to support trimmed, trimless, and flangeless recessed installations. The trough system is fitted with third-party mechanical elements to support HVAC diffusers, sprinklers, audio speakers, security cameras, and occupancy sensors. It includes high-efficiency and high-output 579e static-white, dim-to-warm, and tunable-white LED modules. The 579e modules deliver lumen outputs from 744 to 5,725 lumens at up to 166 lm/W. It also supports the largest range of standard dimming protocols and control options including phase cut, 0-10-V, DALI-2, D4i, DMX, and various wireless protocols.

Lumencore Linear Dynamic White from **Lumenpulse** maintains the highest CRI values over a range of 1800K to 6500K, utilizing Optiwhite plus technology. Lumencore maintains a high constant CRI from 91.2 to 93 across the entire CCT range, precisely over the black body curve. The linear dynamic white luminaire uses mixed-micro TIR optics to achieve very uniform, high-quality white light up to 1,383 lumens per ft.

Optique Lighting's Perifina Curved Corner 3 and 4 in. is a new recessed mud-in rounded corner cove luminaire. Supporting cove apertures of 3 and 4 in. and drywall thicknesses of ½ in. and ⅝ in. It illuminates corners at the wall-to-wall and wall-to-ceiling intersections and is the first to include RGBW and white light with a wide range of color temperatures with a tight two-step MacAdam ellipse for quality and color consistency.

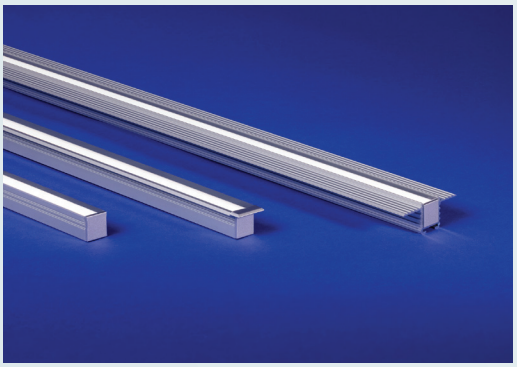


The Zenlite Recesseless, from **PreciseLED Inc.**, is an LED luminaire that is just 5 millimeters thick and appears to be recessed but is actually surface mounted. Using white chip-on-board LED technology, it is fully illuminated with no visible diodes and powered from below, ensuring no visible wiring. The luminaire allows for a clean architectural minimalistic appearance and greater design flexibility, as lighting layouts can be switched easily.



Scout Lighting introduces the Slip Stream, a shallow-profile, ⅝-in.-deep sheetrock installation kit that utilizes the Scout FlexDuo Tape Light that was accepted in the 2024 Progress Report. The edge-lit design eliminates the need for edge-lit plastics and reduces plastic use. The inclusion of a seamless flip-flop lens allows for uninterrupted lensing across lengths, miters, and seamless transitions to maintain consistent edge lighting and even illumination.

The Stripe from **Liteline** is a plug-and-play linear lighting system built to simplify the design build process for contractors and designers. Designs can easily replicate inspiration by selecting linear components and connectors to create unique designs without the need to cut and assemble fixtures on-site. It can support a continuous run of 150 ft from a single power source, enabling a long continuous installation. The Stripe can be mounted as a direct wall mount, indirect wall mount, a wall graze mount, or with adjustable and magnetic mounting brackets.



QTL's Micro 5 POP is a micro-linear LED fixture that provides asymmetric light distribution in a compact form. Delivering a precise 75- or 80-deg beam angle, the fixture is ideal for shallow substrates where low glare and full illumination of the back wall is desirable. It achieves a CRI of 98 with its standard lens ensuring exceptional color accuracy. The POP is also available in encapsulated wet-rated versions. Multiple profiles and mounting options are available in surface-mounted, recessed with flange, and mud-in profiles, providing versatility to accommodate diverse architectural applications.

LUMINAIRES – WALL WASH

Giro Wallwash from **JLC-Tech** is a structurally integrated, recessed perimeter luminaire that combines perimeter ceiling trim and snap-in light modules into a single integrated system. The field-cut housing provides as-built variations, and specialized optics allow for flexible installation of light modules. The Giro is the only perimeter lighting product that does not require the support of an adjacent T-grid member for installation into a grid ceiling, simplifying the installation process for perimeter lighting.

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LUMINAIRES – TRACK

Lighting Services Inc.'s LXSelect fixtures introduce a magnetic-module attachment for track heads, enabling field replacement of LED modules to update lumen output, CCT, or CRI in seconds. Supported by LXS2030, LXS2031, and LXS2038 series, LXSelect leverages an XTM module interface to facilitate upgrades without rewiring, extending fixture lifespan and reducing waste. The warranty covers up to 50,000 hours, and modules are available in multiple color temperatures at up to 3,000 lumens.

iGuzzini's Filorail emerges as the world's smallest 48-V track system, featuring a 3.6-millimeter slot that integrates flush with the architecture in horizontal or vertical runs. Rated at 16 amps and supporting up to 768 watts per linear ft, Filorail accommodates both DALI Broadcast micro-spot floodlights and larger DALI Powerline or Casambi Bluetooth fixtures on curves or straights. Configurations include recessed minimal or frame as well as surface and pendant mounts, with optional SmartCasambi sensors and Jiminy app support.

Lighting Services Inc.'s LZ ZOOM Full Color Series track spotlight is the first adjustable DMX-controlled RGBL (red/green/blue/lime) zoom fixture, offering continuous 2700K to 6500K color-mix output and beam spreads from a 12-deg narrow spot to 50-deg flood via integrated zoom mechanics. Using COB RGBL LEDs, the tool-free head adjusts chromaticity while delivering up to 3,000 lumens in static white. CONTROLTrack compatibility provides on-track DMX, 0-10-V or Lutron EcoSystem control without external modules.

Solais Lighting's Pixora small trackhead is recognized for patent-pending Digital Zoom technology that allows field-selectable power, CCT, and beamspread adjustments via integrated dip switches, where no lens swaps are required. The 2.5-in. head rotates 359 deg with 0-to-90-deg tilt, delivering up to 1,300 lumens at 16 watts and 90+ CRI in 2700K, 3000K, or 3500K. J-, L- and H-type 120-V adapters support ELV and TRIAC dimming, and IP20 and IK08 ratings protect in retail, gallery, and hospitality installations.

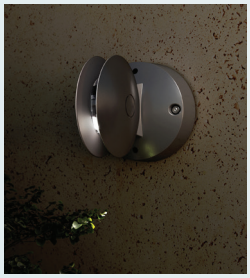
LUMINAIRES – SUSPENDED

Meteor's NovaLink System is the highest-output RGBW, IP66-rated linear infrastructure, providing integrated 2- and 4-ft modules plus corner and wing connectors for continuous direct, indirect, or hybrid uplight/downlight runs. Offering 40- to 120-W channels at up to 120 lm/W, 85 CRI selectable CCTs from 3000K to 5000K, and a durable fluorocarbon finish for outdoor or natatorium use, NovaLink supports runs over 48 ft with L70 life exceeding 100,000 hours.

Eureka Lighting's Lattice family is the first 3-D-printed metal luminaire series, each handcrafted from laser-sintered aluminum to form sphere, cone, or cylinder sculptures. Intricate cross-woven lattices diffuse an integrated 14-W LED source through multiple layers, creating a soft, ambient glow while showcasing industrial artistry. Available exclusively on-demand in natural aluminum or white finishes, Lattice provides lighting statements in lounges, lobbies, and gallery spaces.

LUMINAIRES – SURFACE MOUNT

Ilumus, **GREEN CREATIVE'**s PXCYL High-Output, Field-Selectable CCT Cylinders provide an output of up to 10,000 lumens. Available in field-selectable CCT or fixed CCT output and medium and wide optical distributions, it offers four mounting types including surface mount, wall mount, pendant, and suspension. It also supports a wide operating ambient temperature from -25 deg to 45 deg Celsius (-13 deg to 113 deg Fahrenheit.).



iGuzzini's Trick Emotion is a unique 360-deg sectorized blade optic with DMX-RDM controls. It's the first architectural fixture to feature a patented optic divided into 10 individually controllable sectors for dynamic lighting effects from a single point. The Trick Emotion delivers a precise, glare-free blade of light using a toroidal piano-convex lens with a micro-prismatic surface and internal shielding, achieving up to 23 footcandles (fc) at 4 ft with zero spill light. It offers the most flexible aiming in its class with 360-deg horizontal rotation +/-10-deg tilt, and three mounting options. It is rated IP66 and IK07 for robust outdoor performance.

The SMX Family of Edgeless Design Surface Mount products from **Cooper Lighting Solutions** is available in 4-, 6-, 8-, 14-, and 18-in. round and square sizes. The 4-, 6-, and 8-in. versions boast a low profile of less than 0.65 in. from the ceiling. All sizes support either phase-cut or 0-10-V control options, and each SMX product includes three levels of lumen selection, five CCT selections, and dim-to-warm options. The SMX also includes an innovative mounting frame that twists the fixture into the ceiling providing both wet location and airtight features. The mounting frame also includes tabs that cover both lumen and CCT selection switches when the fixture is locked in place, prohibiting inadvertent changing of the switches during installation.

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LUMINAIRES – COVE

Amerlux has introduced Grid Cove, a first-of-its-kind, grid-to-grid, knife-edge light cove system that simplifies the process of adding indirect cove lighting in ACT ceiling applications. The fixture itself forms the cove, eliminating the need for framing, axiom trims, drywall, and on-site construction. With a 90+ CRI, three standard CCTs, and eight lumen outputs, the integrated LED light engine has a wide asymmetric distribution that provides continuous, even illumination in configurable linear runs and patterns that include inward- and outward-facing corners.

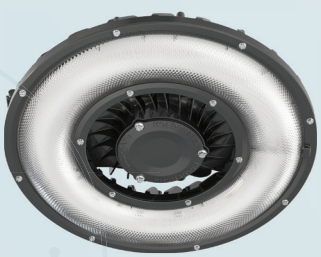
LUMINAIRES – HIGH BAY

RAB Lighting introduces its RBAY 22 series, a rectilinear luminaire family that claims to be the first NSF-certified high-bay solution that combines field-adjustable optics, CCT, and lumen output into a single solution. Users can select from three CCTs and three beam angles. With both an IP69K and IK10 rating, it delivers a versatile solution with an industry-leading 47,000 lumens.

With the H22 family, **RAB Lighting** debuts a new round form-factor high-bay solution. The fixture boasts IP69K and IK10 ratings with NSF certification, while also including many field-selectable features. It offers three choices of CCT, three optical distributions, and three outputs. The optics can be changed with the flip of a switch. It claims to be the first UFO form factor fixture on the market to offer all of these features together in a single package.

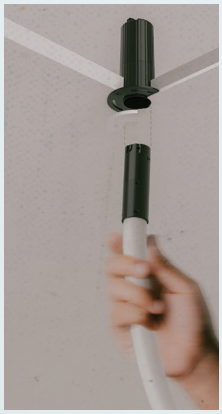
New from **Lithonia Lighting**, the REBL is a round-style, high bay family that offers four sizes, each with a three-field-selectable lumen package and up to three CCT selections. Using precision-tooled, micro-prism optics, the fixture boasts efficacies up to 186 lm/W, the highest in the market for products of this style. It also has an industry-leading maximum ambient temperature rating of 55 deg Celsius (131 deg Fahrenheit). Combined with listings including IP66, NEMA 4X, NSF Splash Zone 2, IK10, and DLC 5.1 Premium, this family delivers a robust solution.

Cooper Lighting Solution's Elevate High Bay focuses on optics and efficiency. This round form-factor luminaire solution claims to deliver the necessary fc with fewer lumens. Optical control allows it to direct light more effectively for linear aisle applications and includes a unique integrated emergency egress lighting mode that delivers code-required levels with fewer luminaires. While delivering up to 60,000 lumens, its optical control claims to deliver UGR values as low as 16 without the need of a refractor.

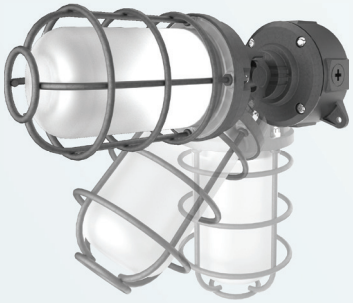


Acuity Brands introduces the Holophane HOLOBAY, a round form-factor high-bay solution offering industry leading efficacies with a wide variety of options. The precision heat-dissipating fin design allows fixtures to achieve up to 174 lm/W with an 80 CRI, 5000K CCT LED array. It offers two sizes, three CRIs, four CCTs, five optical distributions, 11 mounting options, onboard control options, and lumen packages ranging from 12,000 to 100,000 lumens, giving specifiers impressive flexibility for their project needs.

LUMINAIRES – OTHER INDOOR



FreePoint from **Edison Price Lighting** is an innovative modular monopoint lighting system with hot-swappable LED modules. The system introduces a patented push-to-connect interface allowing users to install, remove, or swap modules without tools or rewiring. With 23 modules to choose from, including adjustable beam spotlights, linear pendants, and decorative forms, the FreePoint system delivers a field-configurable solution that also simplifies maintenance.



RAB Lighting provides vaporproof jelly jars with a facelift with the introduction of the VXRGB. At the core, the fixture offers many expected features such as wall and ceiling mounting, a polycarbonate housing, and three adjustable wattages. It stands out as the first-to-market solution offering a field-selectable range of colored light including red, green, blue, and 5000K white as well as a field-controllable on/off photocell.

Acuity Brands' Gotham IVO family of recessed lighting is now available in a cylinder form-factor with a wider range of optical distributions. IVO features interchangeable optics from 10 to 60 deg in 5-deg increments, plus true batwing distributions. The family offers round and square form factors, 4- and 6-in. sizes and numerous mounting options to meet specifier needs.

The Skyview Tile 2x2 from **BIOS Lighting** is a unique LED circadian lighting solution. Producing 4,000 lumens, this architectural troffer features a CRI above 91 for exceptional color accuracy coupled with an R9 value exceeding 90. This replacement for traditional luminaires delivers rich, saturated reds and rendering similar to natural light. It also delivers the wellness criteria recommended by RP-46-23 and GSA P100 and can offer three points under WELL's L03 Circadian Lighting Design.

OUTDOOR LUMINAIRES – AREA

LSI Industries introduces V-locity, a pole-mounted area light with best-in-class features. It claims up to 146 lm/W in a Type II distribution with optical packages that deliver the most on-target street lumens with less backlight than competitors, in all distributions. Those same optics also allow the V-locity to offer an industry-leading lateral spacing, reducing fixture quantities.

The Lumenspoke is a new sleek, minimalist light column exterior lighting solution from **Lumenpulse**. It provides site and area illumination using a rectilinear light engine that delivers DarkSky-approved distributions. With a commitment to responsible lighting, the Lumenspoke offers standard outputs as low as 1,000 lumens at 10 watts and includes optical distributions that give specifiers the capability of a 7 to 1 spacing ratio, meeting IES RP-8.

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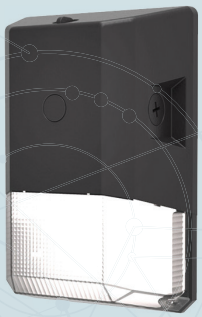
OUTDOOR LUMINAIRES – AREA

Cooper Lighting Solutions introduces its second-generation SB series high-efficiency LED modules. Focusing on improved efficiencies and reduced glare, the new modules feature a higher-density LED array, increasing from 16 to 26 to deliver similar or improved outputs at lower drive currents. The new configurations can deliver up to 40% increases in total output with up to 17% efficiency improvements.

Expanding upon field-selectable options and features, **Max Lite** has launched its new AE Switch Area Light that includes an optional remote control. At its core, the low-profile luminaire offers on-board switches to allow field-selection of wattage, CCT, and optical distributions. The optional IR remote control allows users to set both the CCT and distribution type from the ground, eliminating ladders, lifts, and bucket trucks during commissioning. Coupled with a variety of mounting options and accessories and a toolless housing, this area light provides a highly configurable solution for exterior applications.

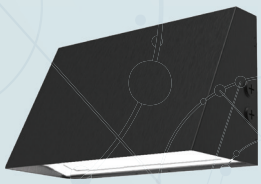
LEDVANCE expands upon its OPTI-SELECT; the industry-first beam distribution selection technology has been introduced into new form factors, including linear high bays, floodlights, wall packs, cylinders, and PAR lamps. This switch-based optical control on the luminaire allows for easy in-field adjustment of the optics without the need for replacing or removing lenses and, combined with the field-selectable wattages and CCTs on the luminaire families, provides greater flexibility for in-the-field adjustment needs.

LUMINAIRES – OUTDOOR WALL



ILLUMUS introduces the ILP Beam Angle Adjustable Mini Open Face Wallpack. At 6 in. wide, this fixture features an adjustable beam angle, selectable CCT, and selectable lumen output. This small unit can also house an integral emergency backup option. With die-cast and polycarbonate construction, it is UL Listed and DLC Premium certified.

The ILP Field Electronically Adjustable Beam Angle Open Face Wallpack from **ILLUMUS** uses electronics to adjust the Type IV beam angle vertically from 60 to 110 deg. It also has selectable lumen output as well as selectable color temperature. This wall pack is IP65 rated and UL Listed. Integrated emergency battery back-up and photocell are available.



From **ILLUMUS** comes the ILP Field Electronically Adjustable Beam Angle Full Cutoff Wallpack. This fixture is the industry's first full cut-off wall pack luminaire with field electronically adjustable light distribution. Type II, III, or IV distribution is chosen via a selector switch. This wall pack also has field-selectable lumen output and LED color.

LUMINAIRES – OUTDOOR WALL

The Millenium Flair from **Kenall Manufacturing** is an IK10-rated, high-abuse surface mount fixture. This wall or ceiling mount fixture has a static-white center and a perimeter that can be static or color-changing. The housing is made of die-cast aluminum and injection-molded polycarbonate and is available in 14- and 18-in. diameters; both sizes are only 1.9 in. deep and can provide up to 5,000 lumens.

RAB Lighting introduces CD34, an outdoor wall cylinder with field-selectable up, down, or up-and-down illumination. The beam angle can be changed in the field as well by swapping the optics. This fixture also has field-selectable color temperature and lumen output. A selectable photocell is included. Available in 3-, 4-, or 6-in. diameters, surface and pendant mounting options for indoor use are also available.

SLIM from **RAB Lighting** is the first optically field-adjustable, full cut-off wallpack that is also DarkSky Approved and DLC Luna Qualified. Forward throw is adjustable from -20 to +20 deg in 10-deg increments. Available in four sizes, this fixture line can accommodate outputs as low as 300 lumens and as high as 8,600 lumens. Field-adjustable CCT and lumen output are standard, and an integrated photocell is included. The die-cast aluminum housing is IP65 rated.

OUTDOOR LUMINAIRES – ACCENT

The Theta Mega Puck from **Ledra Brands** is an IP67-rated recessed luminaire that can produce up to 800 lumens. This fixture is available with multiple static-white, tunable-white, static-color, and RGBW options. The housing is one piece and made from marine-grade anodized aluminum and is impact tested to IK10.

RAB Lighting introduces LFX, a landscape light with field-adjustable optics and wireless RGBW. The optics are continuously adjustable from 17 to 45 deg. Color control is achieved using wireless Bluetooth, the die-cast aluminum housing is IP65 rated, and the fixture is UL Listed for wet locations. It is available in two sizes and delivers up to 4,200 lumens.

OUTDOOR LUMINAIRES – PARKING GARAGE

The PORTO Field-Adjustable Garage Light from **RAB Lighting** has efficacy up to 150 lm/W and field-adjustable color temperature and lumen output. An integrated photocell is included. The cave effect in parking garages is reduced with this fixture's 30% uplight. Available in two round and two square sizes, the fixture offers lumen output ranges from 4,200 to 14,800.

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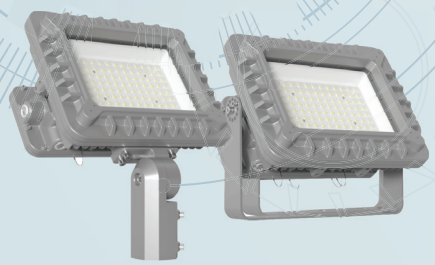
OUTDOOR LUMINAIRES – FLOODLIGHTS



HAZFX from **RAB Lighting** is the industry's only high-efficacy, Class 1 Division 1, hazardous location floodlight rated for 3G vibration. Available lumen output ranges from 4,700 to 30,000, and options include two housing sizes with either yoke or slipfitter mounting. Boasting 156 lm/W, the HAZFX is a line extension of RAB Lighting's HAZFFLED product.

RAB Lighting's X34 RGB is a high-efficacy RGBW floodlight and also Bluetooth controlled. With sizes ranging from 4.5 in. to 12 in. wide, this family can produce up to 24,000 lumens. Multiple mounting options are available, and it is UL Listed for ground mounting applications below 4 ft. The fixture is also available with static-white output.

The Washer Pro Symphony family from **Traxon** is an IP66-rated architectural wall washer designed to deliver the widest color gamut with exceptional saturation and outstanding color rendering. These fixtures utilize up to seven spectral primary LEDs under a single optic to produce from 2000K to 10,000K with a CRI of 93+. Beam spreads are available from 15 to 85 deg, and the family has five different housing sizes and delivers up to 150 watts.

From **Gigatera Lighting** comes the SFP 1K5 LED Sports Light, a lightweight outdoor floodlight capable of producing up to 184,500 lumens. At only 26 lbs, this fixture is at least 45% lighter than comparable outdoor floodlights. In addition to being lightweight, this high-output fixture is also among the lowest in frontal EPA at only 1.87 sq ft. Made with a die-cast housing and a tempered glass lens, this unit is rated IP66 and IK08.

OUTDOOR LUMINAIRES – OTHER

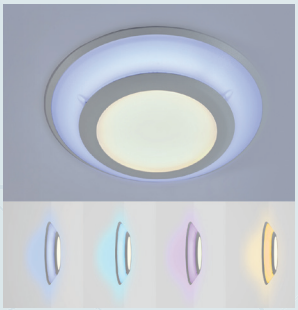
The Wander Pathway and Step Luminaire Family from **Acuity Brands**' Hydrel brand is a family of luminaires with the widest on-center spacing of up to 18 ft that still meets minimum egress requirements on the path of travel.

New from **Cooper Lighting Solutions** is the Invue Epic Luminaire. This decorative area light possesses a streamlined installation and service access features. Tool-less fasteners, an integrated terminal block and on-pole access to key components allow installers to complete wiring and optical adjustments in minutes. The Epic is available in up to 20,200 lumens at 157 lm/W. It is available with both discrete LEDs and waveguide optics in 18 different housing and shade combinations with CCT ranging from 2200K to 4000K as well as amber in both 70 and 80 CRI.

Organic Lighting Systems' FortaCAST In-Grade Lighting System is recognized as the first polymer-concrete, drive-over luminaire family combining static-white and RGBW LED strips under a sealed, load-bearing lens. Engineered for 10,000 psi traffic loads and IP68 protection, FortaCAST installs like pavers—interlocked or cast-in-place—without secondary housings. Maintenance is simplified by precision-ball-bearing alignment tubes that allow service crews to replace modules in-situ. The continuous-length fixture supports DMX-addressable pixels and offers custom concrete colors and textures to match hardscape designs.

LEDVANCE's Tunable Warm Spectrum family of area lights and wallpacks is a line-extension offering field-selectable CCT from 1800K through 5000K with a minimum CRI of 80. Building on last year's field-selectable optics innovation, these luminaires feature dip-switch controls for quick adjustments on Type III, IV, or V distributions and selections up to 150 watts. Standard 7-pin NEMA receptacles and plug-and-play compatibility with LEDVANCE LINK sensors ensure rapid deployment in parking lots, walkways, and exterior wall applications.

LUMINAIRES – MEDICAL



Kenall's MedMaster Saturn Surface Mount Luminaire is recognized for its dual-light-engine architecture providing independent control of center static-white and perimeter color-changing rings. The 14- and 18-in. diameter fixtures deliver up to 1,800 lumens in exam mode and narrow-spectrum amber or native red in low-light scenarios, meeting ANSI/IES RP-29 for patient observation and supporting behavioral health standards. IK10 and NSF2 ratings ensure durability and cleanability in high-abuse and sterile environments. A built-in 360-deg microwave sensor enables automatic transition between examination and night-light modes.

Focal Point's Saros Duo tandem patient-room luminaire delivers RP-29-compliant indirect ambient illumination alongside two examination modes of 75 fc for regular and 100 fc for high-intensity tasks, and a warm-dim nightlight that eliminates blue-light exposure after hours. The thin, 4-in. profile accommodates shallow plenums, while a patent-pending master-satellite configuration enables a single-point power feed and tool-free, below-ceiling access to drivers and LED boards. An optional pillow-speaker reading light adds patient-activated comfort without additional ceiling penetrations.

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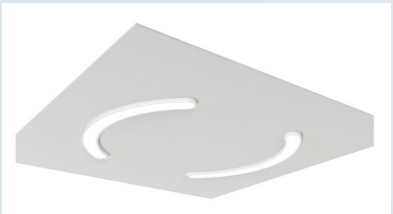
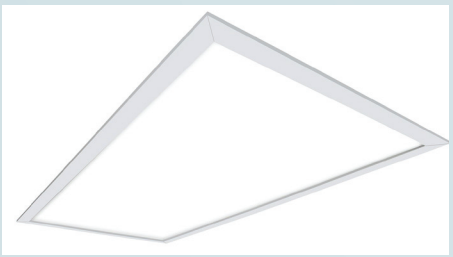
LUMINAIRES – MEDICAL

Acuity Brands' Nightingale Observe cloud luminaire is the first patient fixture integrating a biophilic sky-scene mode with standard exam and ambient settings in a single 2-ft-by-2-ft or 2-ft-by-4-ft recessed module. Four interchangeable "cloud" formations diffuse 3000K to 5000K light at 90 CRI, and a custom sunset-dimming algorithm in sky mode provides circadian support. In exam mode, the fixture delivers 75 fc on the bed plane; ambient mode maintains 10 fc for general illumination. Night-observation mode uses low-glare amber output for safe room checks.



Acuity Brands' Nightingale Embrace Overbed luminaire is a new form factor that reduces direct glare by positioning curved light banks outside the patient's direct line of sight. Meeting ANSI/IES RP-29 for exam and ambient modes, Embrace also offers a night-observation setting and an optional adjustable reading lamp controlled via a pillow speaker. A single large surface-mount housing simplifies deployment in grid or drywall ceilings, while an antimicrobial matte-white finish and NSF2 rating ensure patient safety and easy cleaning.



Cooper Lighting Solutions' FLR and FLR2 Fully Luminous recessed panels are the first flat-panel luminaires designed to satisfy combined requirements for medical, behavioral health, and high-abuse spaces. Available in 2-ft-by-2-ft, 2-ft-by-4-ft, and 1-ft-by-4-ft formats, these panels feature a clear bottom lens with IK10 impact resistance, IP65 sealing, and cleanroom ratings up to ISO 8. The product offers efficacies up to 125 lm/W, and 0-10-V dimming to 1%. Optional motion and emergency battery modules provide scalable solutions for corridors, patient rooms, and de-escalation areas.

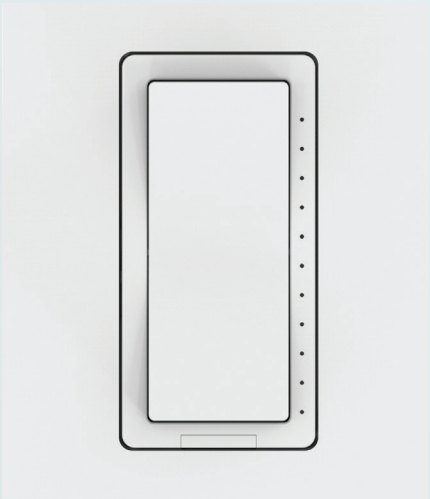
Kirlin Lighting's Empower Wall Stations are the first standalone DMX control units approved for behavioral health environments. Offering ligature-resistant construction with IK10 impact rating and optional BioGard antimicrobial finish, Empower DMX features eight pre-programmed scenes across a single zone, enabling intuitive color-change and white-light dimming without external drivers or networks. The 0-10-V variant provides on/off and dimming from 100 to 1% via touch-sensitive buttons, with no external relays required. Both versions meet New York Office of Mental Health mounting and finish criteria.

POWER SUPPLIES – DRIVERS

From **LEDVANCE** comes the industry's first NFC field-programmable LED driver. The tapTronic driver allows for field repair and replacement of two-channel drivers. Available in 55 and 85-W versions with 8- to 55-V output, each channel can be programmed independently via a smartphone and the free tapTronic app. The input voltage of 120 to 347 volts is standard, and it is UL Listed, class P.

The QT-CAB from **QTL** is a compact DC power supply and cabinet suitable for surface or recessed mounting. This system separates the power tray from the cabinet, allowing the cabinet to be installed during the rough-in stage and the power tray to be installed later. Measuring 14.5 in. by 17 in. by 4 in., this unit is IC rated and can house up to six 100-W, Class 2 constant voltage drivers. Control options include DALI, DMX, phase, 0-10-V, warm dim, and tunable white.

CONTROLS



The XDIM Bridge from **RAB Lighting** is the first bridge device to connect wireless Zigbee and Bluetooth mesh lighting control systems. This is an in-wall device for switching and dimming of a local load and any Lightcloud Blue device. Dimming features both fade on/off and rapid full-on. This device has a power rating of 500 watts and a voltage rating of 120 to 277 volts.

This Wireless Mesh Time Management Controller with Long Range Antenna from **mwConnect** can communicate Bluetooth signals across 1,200 ft. The PSC-ZKV-TMC has a 30-day backup battery and is Bluetooth NLC certified. Control of a single 0-10-V channel and a 10- to 22-VDC relay is standard. Quick connect is via a Z10 0-10-V twist lock, and a Casambi wireless mesh version is also available.

Building on technology advancements and AI, **JDRF Electromag Engineering** introduces its Autonomy Controls Suite. This fully self-commissioning luminaire level lighting control system leverages near-infrared light and machine learning to automatically discover the built environment to form motion, daylight, and wall-mounted control groups autonomously and meet the most-current energy standards in the industry. Without the need of control boxes or an internet connection, JDRF claims to offer a system that discovers, adapts, and self-governs to reduce costs and simplify the commissioning process.

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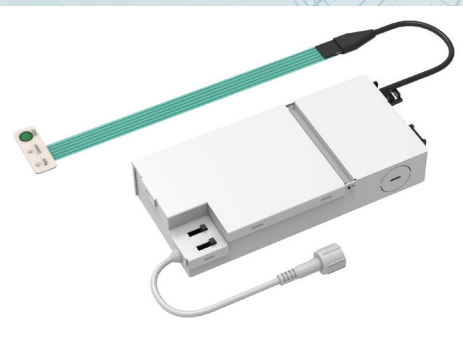
LIFE SAFETY EQUIPMENT



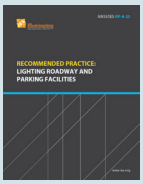
New from **RAB Lighting**, the DRI-EMB Emergency Driver claims to be a first-on-the-market, 2-in-1 driver solution that offers both field-adjustable wattage and CCT selections with emergency capabilities. Recommended as an ideal driver solution for downlights, in normal operation, users can select from three wattages and five color temperatures. In emergency mode, the driver delivers 90 minutes of constant power. It also offers a built-in junction box and self-testing features and is UL924 listed.

ACCESSORIES

QTL has introduced a new five-conductor, exterior-rated, low-voltage splice box, ideal for a variety of RGBW and tunable-white lighting applications. Boasting both an out-of-the-box wet rating and an IP68 rating when filled with the provided silicone, the Q-MINI-J5 is one of the smallest form-factor submersible splice boxes on the market at under 2.5 in. by 3 in. in profile. It has multiple wire and gasket options and a terminal block that accepts 24/12 AWG conductors.

PUBLICATIONS

A substantial revision of IES LP-10: *Lighting Practice: Sustainable Lighting – An Introduction to the Environmental Impacts of Lighting,* provides designers with specific approaches to practice sustainable lighting design. Additionally, it includes new technical content for manufacturers to incorporate life-cycle analysis and material transparency processes into their product lines.



ANSI/IES RP-8-25: *Recommended Practice: Lighting Roadway and Parking Facilities* has been updated. This revised lighting standard introduces innovative design methods and updated technology. Its expanded guidance includes lighting recommendations for EV charging stations, bicycle lanes, and obtrusive light mitigation.

BSR/IES RP-43: *Recommended Practice: Lighting Exterior Applications* has been updated. It also merges with the contents from ANSI/IES LP-2-20: *Designing Quality Lighting for People in Outdoor Environments* and ANSI/IES LP-11-20: *Environmental Considerations for Outdoor Lighting*, forming a cohesive package. This revised and expanded standard includes an updated lighting zone classification summary.

ANSI/IES TM-39-25: *Technical Memorandum: Quantification and Specification of Visual Responses to Temporal Light Modulation* (*A.K.A. Flicker*) has been published. This new technical memorandum catalogs currently documented metrics and specification criteria related to the human perception of periodic TLM and summarizes existing research. It identifies a path toward an IES standard method for quantifying and specifying flicker for architectural lighting general illumination.

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GAMING THE SYSTEM

An office for fun, innovation, and community

By David Shiller

In the heart of downtown Vancouver, Canada, the rapidly expanding mobile entertainment company Kabam sought to create an office environment that was as dynamic and engaging as its flagship games. The design brief was clear: craft a bespoke, adaptable, and intuitive lighting control system that could elevate the everyday workspace into a vibrant, immersive experience. This was not just a technical challenge but also a creative opportunity to weave lighting into the fabric of Kabam's identity.

A daytime pre-set scene features comfortably illuminated tape lighting and recessed linears that accentuate the open atrium and wood-frame millwork.

"As a gaming company, Kabam is ultimately a brand associated with fun and entertainment, so we specified luminaires that have a playful aesthetic and incorporated them into an equally playful design layout," explained Victor Quezada, principal and Architectural Lighting team lead at AES Engineering. "This was, of course, done in close collaboration with the interior design team to ensure we complemented the interiors, both by area and by room."

Like most great quests, the journey was not without its complexities. The project was underway from 2020 to 2023 and demanded advanced features, seamless coordination across multiple disciplines, and sensitive integration with both architectural and mechanical systems. The result is a lighting design that meets the functional needs of a modern workplace while providing inspiration and adaptation to the ever-changing rhythms of a creative company.

"Kabam wanted an impactful lighting concept that really helped put their stamp on the new space, but we also had to work with the constraints of the base building," Quezada said. "The metal ceiling, for example, had to make space for sprinklers, diffusers, and other necessary features. Certain elements of the architect's design, such as the millwork on the stairs, also presented potential limitations."

One of the most significant challenges lay overhead: the base building's radiant heating and cooling ceiling system by Giacomini S.p.A. This high-performance system dictated that all lighting be installed within specific carrying channels, each precisely engineered to support the radiant panels. To achieve the desired clean, modern aesthetic, these channels were laser-cut in Italy, ensuring millimeter-perfect tolerances for the Fluxwerx Notch 2 recessed luminaires while maintaining a flawless painted finish.

This level of precision required mechanical and electrical coordination since the lighting and linear air diffusers had to coexist harmoniously within the limited ceiling real estate. The result is a ceiling that is as functional as it is beautiful, with every element—light, air, and structure—working in concert.

The Heart of the Office

The 548-person-capacity atrium is the beating heart of Kabam's new headquarters—a space where the full potential of the lighting system is on display. Stepped seating, illuminated by concealed RGBW LED tape, creates a vibrant stage for everything from CEO presentations to staff parties. The lighting transitions seamlessly between scenes, with fade effects and color changes that can be tailored to the mood and purpose of each event. "The outcome is quite striking, as the RGBW LED tape is concealed, leaving only the wash of color on the wood surfaces," said Quezada.

The installation of lighting within the atrium required careful sequencing with other trades. Millwork, electrical, and A/V teams worked in tandem to ensure that LED tape and recessed Meteor Rev4

Photo: Ryan Jamias

RGBW tape and downlights are recessed within angled millwork; the side stair pathway is controlled separately to provide safe wayfinding.

W+RGB Downlights were perfectly positioned and tested before being concealed behind finished surfaces. The result is a space that feels both effortless and magical, where technology and design come together to create memorable experiences.

Translating Language to Illumination

The architectural language of the office, crafted by Perkins&Will, presented its own set of opportunities and constraints. Intricate millwork on the atrium's feature wall and the grand staircase called for lighting solutions that could highlight these elements without overpowering them. The design team responded by integrating U Technology RGBW tape into seat toe kicks, stair risers, and behind wall panels, creating a concealed wash of color that animates the wood surfaces and brings the space to life.

"The lighting technologies consist of integrated LED luminaires, LED RGBW tape, and globe-shaped LED retrofit lamps [Maxlite G40 globe lamps installed in Bruck Canopy Pendant E26 sockets]," Quezada shared. "In all, a total of 27 luminaire types were used. This gave us coverage for different areas and the flexibility we wanted for the lighting controls in feature spaces like the main presentation area, which has a huge range of customizable and preset programs."

To ensure a cohesive visual language, the design team curated luminaires from within specific product families, adapting finishes, sizes, and mounting types to suit each area. For example, a mix of 5-in. and 9-in. Fluxwerx portal recessed fixtures blend into acoustic panel ceilings, while ALW Calara Direct/Indirect Pendants add drama to open collaboration zones. The result is a lighting

Photo: Ryan Jamias

Photo: Ryan Jamias

scheme that feels unified yet dynamic, echoing the diversity of Kabam's workspaces and the creativity of its people.

The 27 distinct luminaire types were applied across 118,000 sq ft and five floors to provide both coverage and flexibility. Each area—from focused workstations to the expansive presentation atrium—has lighting tailored to its function and mood.

Brains and Beauty

The lighting control system is the brain behind the beauty. Users can adjust lights, operate motorized Somfy TaHoma gateway shades, and trigger A/V scenes from a single control panel or preset, creating a holistic environmental experience. The lighting control system includes a variety of lighting control protocols; most illumination is managed via the 0-10-V protocol, ensuring smooth dimming and energy efficiency. The atrium's RGBW lighting is controlled via DMX, offering precise color tuning and dynamic scene creation. Track lighting in the atrium ceiling and bulkhead is managed through Casambi-enabled DMX devices, allowing for wireless control from a centralized DMX master controller in the A/V room. For ultimate flexibility, users can also manipulate lighting scenes via a dedicated mobile application, empowering staff to customize their environment in real time.

Top: DMX controls ensure smooth dimming and scene transitions.

Bottom: A preset scene highlights Kabam's brand colors.

The control interface was designed with the end user in mind. In the A/V control room, a DMX control panel with intuitive sliders and clearly labeled buttons allows for effortless scene selection and real-time adjustments. Pre-set programs inspired by the color palettes of Kabam's most successful games—such as *Disney Mirrorverse* and *Marvel Contest of Champions*—can be activated for

Photo: Ryan Jamias

The pre-function space above the atrium stairs includes a rainbow "party" chase mode. Extra DMX outlets enable ancillary wall grazer lighting (seen in the background).

company events, presentations, or celebrations, instantly transforming the atmosphere.

Additionally, the project's design was engineered to meet stringent energy and performance standards. With an average power density of just 0.43 watts per sq ft and illuminance levels of 300 lux in office spaces and 220 lux in common areas, the system delivers both efficiency and visual comfort. Full compliance with ASHRAE 90.1-2016 was achieved, ensuring the project meets contemporary benchmarks for energy use and sustainability.

Fun, Games, and the Future

By embracing the constraints of the base building and leveraging the latest in lighting technology, the design team delivered a system that is as adaptable as it is whimsical. Every detail—from the selection of playful luminaires to the integration of controls—was crafted to support Kabam's brand and culture.

Today, the lighting system does more than illuminate spaces; it shapes experiences, fosters creativity, and brings people together. For Kabam, light is not just a utility—it's an expression of the company. The lighting design was recognized with two awards: a 2024 IES Illumination Award of Merit: Lighting Control Innovation and a 2024 IES Vancouver Chapter Award of Merit: Lighting Control Innovation.

Kabam's downtown Vancouver office demonstrates how thoughtful lighting design can transform a workspace into a living, breathing extension of a company and its culture—one that is as fun, flexible, and future-ready as the games that inspire it. ◎

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THE AUTHOR | David Shiller is a business development and marketing consultant to the lighting industry as well as the publisher of *LightNOW*, an online lighting industry trade publication. He is a 20+-year veteran of the lighting industry and co-chair of the American Lighting Association Engineering Committee.

LD+A

LIGHTING DESIGN and APPLICATION

Share Your Voice

The flagship publication of the Illuminating Engineering Society, *LD+A* is an award-winning magazine for professionals involved in the art, science, study, manufacture, teaching and implementation of lighting. In an effort to continue to provide diverse voices in *LD+A*, we are looking for **industry professionals** who are interested in telling their stories, including work on unique lighting projects, their experiences in the profession, and opinions on current hot topics in the world of illumination.

EVERY ISSUE of *LD+A* includes feature articles on design projects, technical articles on the science of illumination, new product developments, industry trends, news of the Illuminating Engineering Society, and vital information about the illuminating profession.

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ROTATING COLUMNS cover topics including energy, green design, career issues, technology, regulations and legislation, research, and education—written by a veritable who's who of industry experts.

If you are interested in publishing an article in *LD+A*, please reach out to Editor-in-Chief Craig Causer at **craig.causer@sagepub.com** to discuss further.

Illuminating ENGINEERING SOCIETY

How Can Lighting Enhance Your Perceptual Music Listening Experience?

Music listening experiences can be strongly influenced by the surrounding environment. A recent study conducted by researchers at Arizona State University and the California Lighting Technology Center at the University of California, Davis, investigated how indoor lighting conditions influence music listening satisfaction. The study aimed to examine how different lighting environments affect music perception, as well as the association between lighting satisfaction and music perception. Participants were exposed to a range of lighting conditions while listening to two types of music, categorized as happy and sad, and asked to rate both the emotional experience and how well each piece matched the corresponding lighting setting.

AUTHORS

SEONGHYUK SON, JAE YONG SUK, KRISTINA KNOWLES, DONGWOO (JASON) YEOM

Music is widely known for its ability to both arouse and express emotions. Numerous studies suggest that one of the primary reasons people engage with music is to influence their emotions, whether to match or amplify their current emotional state, change their mood, experience a cathartic emotional release, seek comfort, or simply increase their enjoyment.[1,2] While decades of research have expanded our understanding of the complex relationship between music and emotion, relatively few studies have directly examined how indoor environments influence perceived emotions in music. Given that most musical engagement happens within designed indoor spaces—from concert halls to living rooms, as presented in **Figure 1**—this scarcity of research examining environmental influences on musical emotion represents a notable gap. The present study examines how different lighting conditions affect the perceived positivity of music and the perceived fit between the music and specific lighting settings. The musical excerpts consisted of popular music pieces that had been previously used in music and emotion research,[3] and were limited to excerpts that listeners had reliably rated as either happy or sad.

Methodology

The experiments were conducted in a room at Arizona State University outfitted with 12 LED smart lights and a lighting control system, which enabled researchers to adjust lighting CCT and color. The room featured a west-facing window that was covered during the sessions to prevent daylight interference, and the indoor temperature was kept steady at 71.6 deg Fahrenheit (22 deg Celsius) by a portable HVAC system.

A total of 22 participants took part in the study, including 12 males and 10 females. Participants were randomly assigned to one of four experimental lighting conditions: blue (455-nm peak), cool white (5000K CCT, 450-nm peak), red (630-nm peak), and warm white (3000K CCT, 610-nm peak), as shown in **Figure 2**. Each participant entered a designated room where the lighting condition had been pre-set at random and was given 15 minutes to adapt to the environment. After the adaptation period, they completed a lighting satisfaction survey using a 7-point Likert scale ranging from -3 (Very Dissatisfied) to +3 (Very Satisfied). Participants then listened to 10 1-minute excerpts of music categorized as “happy music.” For each excerpt, they rated 1) how positive or negative the music felt (music positivity rating) and 2) how well the music

matched the current lighting condition (lighting-music fit). Both music perception ratings were assessed using a 10-point scale. After a 3-minute break, participants listened to ten additional 1-minute excerpts categorized as "sad music" and repeated the same two ratings for each piece. Finally, participants completed the lighting satisfaction survey again. Each session lasted approximately 45 minutes, and the same participants repeated sessions under different lighting conditions. Following data collection, analysis of variance was performed to investigate the effect of lighting conditions on music perception, using a 95% significance level.

Figure 1. A music listening space illuminated with contrasting lighting.

Figure 2. A participant listening to music under different lighting conditions.

Music Positivity Rating Results

The music positivity rating analysis reflects participants' emotional experience of the music, where higher ratings indicate more pleasant or uplifting feelings and lower ratings indicate more muted or melancholic feelings.[4] The music positivity rating analysis confirmed that when participants listened to happy music, they gave the highest positivity ratings under warm-white lighting, while

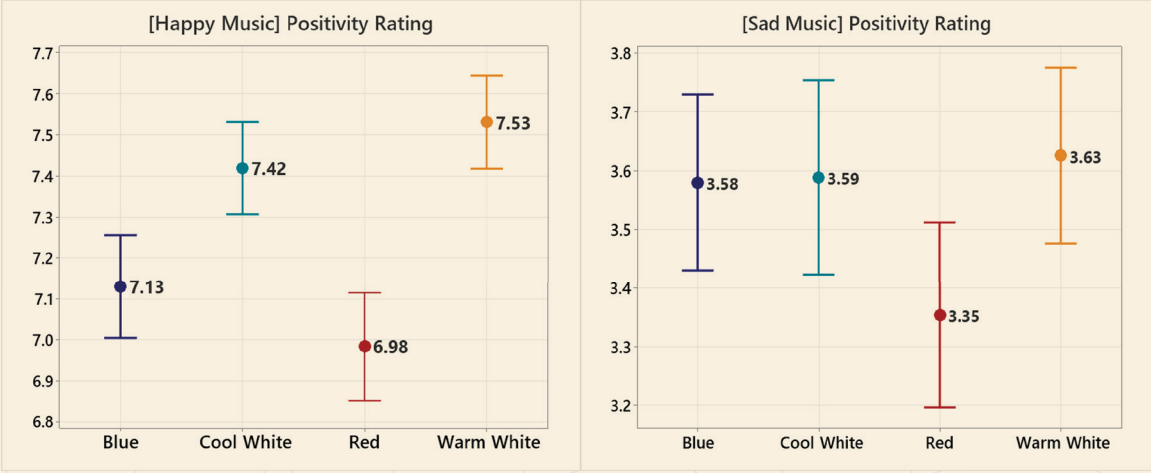

Figure 3. An interval plot of music positivity rating under different lighting conditions.

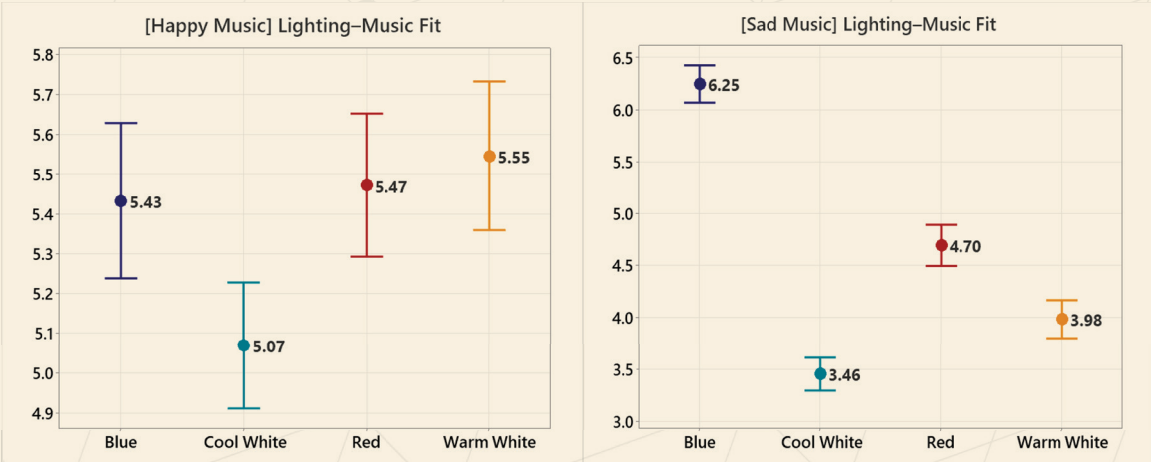

Figure 4. An interval plot of lighting-music fit under different lighting conditions.

the lowest ratings occurred under red lighting, as shown in **Figure 3**. Ratings under warm white were significantly greater than those under both blue and red conditions. Positivity ratings under cool-white lighting were also significantly higher than under red lighting. Together, these results indicate that happy music is perceived most positively in white lighting conditions, particularly warm white, and least positively under red lighting.

On the other hand, when participants listened to sad music, they gave the lowest positivity ratings under red lighting. However, the differences in ratings among the other lighting conditions were not statistically significant. This indicates that the influence of lighting on perceived positivity or negativity was more pronounced when listening to happy music, whereas for sad music, only red lighting led to a noticeable drop in ratings, with no significant differences observed among the other lighting conditions.

Lighting–Music Fit

The lighting–music fit analysis assessed how well participants felt the current music matched the lighting setting. Happy music received the lowest fit ratings under cool-white lighting, as shown in **Figure 4**, suggesting that this lighting condition was perceived as the least compatible with happy music. In contrast, no significant differences were observed among blue, red, and warm-white lighting for happy music. When participants listened to sad

music, blue lighting received the highest fit ratings, followed by red, warm white, and cool white, respectively. These findings indicate that the best lighting fit differs depending on whether the music is happy or sad. Blue lighting stood out as a significantly better match for sad music than the other lighting conditions.

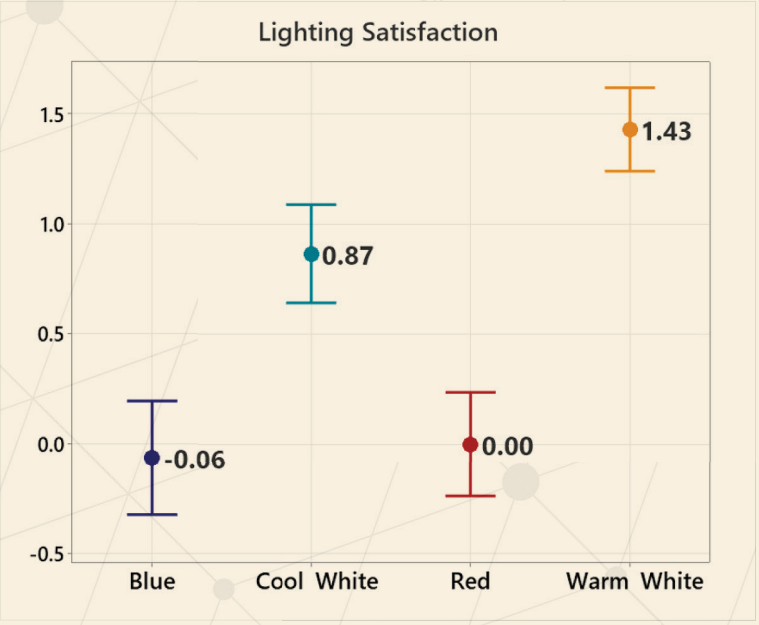

Figure 5. An interval plot of lighting satisfaction under different lighting conditions.

Lighting Visual Satisfaction

The results of lighting visual satisfaction indicate that the lighting conditions have a notable effect on participants' satisfaction, as shown in **Figure 5**. Among the conditions, warm-white lighting received the highest satisfaction rating, indicating that participants found it the most satisfying. Cool-white lighting followed with a moderate level of satisfaction. In contrast, red lighting received a neutral rating (0.00), suggesting neither satisfaction nor dissatisfaction. Blue lighting received the lowest average score, reflecting slight dissatisfaction among participants, though the rating remained close to neutral. These results indicate that participants showed significantly different levels of satisfaction depending on the lighting condition.

The Influence of Light on Music

The results of this study show that indoor lighting can significantly influence how people experience music and perceive their surroundings. When listening to happy music, participants rated the music most positively under the warm-white lighting condition. Warm-white lighting also received the highest visual satisfaction ratings compared to other lighting conditions. This alignment, clearly observed through similar patterns in positivity ratings for happy music (Figure 3) and visual satisfaction ratings (Figure 5), indicates that people naturally associate warmer lighting with upbeat, cheerful music. Together, these results suggest that indoor lighting might play a role in how positively we feel about music, especially when the music itself is happy. Cool-white lighting, despite generally being visually acceptable, was rated as the least fitting for happy music. This indicates that neutral or cooler-toned lighting might feel emotionally disconnected from upbeat music. Thus, designers should consider not just visual comfort but also the emotional compatibility between lighting and music type.

In contrast, a different pattern emerged when participants listened to sad music. Although lighting generally had less impact on positivity ratings for sad music, participants consistently rated red lighting lowest in both visual satisfaction and positivity. Blue lighting, however, stood out as the most fitting for sad music, suggesting that cooler tones can resonate emotionally with slower, more melancholic music. Overall,

these findings suggest that lighting influences more than just visual satisfaction, it also plays a meaningful role in shaping how people experience music. Recognizing this relationship can help designers and researchers develop lighting environments that support emotional engagement and enrich music-listening experiences.

These results highlight opportunities for designing illuminated environments that enhance the alignment between visual and auditory stimuli, particularly by considering the emotional tone of the music. Traditionally, research on lighting has focused on visual comfort or productivity, often overlooking how lighting may influence emotional perception in listening to music. This study examined the effects of lighting conditions on music perception, such as positivity ratings, lighting-music fit, and lighting satisfaction. By doing so, it contributes to a deeper understanding of how different lighting environments can enhance or diminish the emotional impact of music. This opens new possibilities for optimal, emotionally responsive lighting design in spaces where music is a central element, such as studios, therapeutic settings, or everyday home environments.

Taking the Next Steps

Building on the current findings,[5] future research could incorporate physiological measures, such as heart rate or skin temperature, providing objective data to complement subjective survey responses and reveal how people emotionally and physically react to music under different lighting. This could enable predictive modeling of music perception using biometric data. Beyond lighting, future studies might also integrate other indoor environmental factors, such as temperature, to examine how multiple sensory elements work together to influence music perception. This may help create comprehensive and optimal indoor environments for music listening. ◎

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Dongwoo (Jason) Yeom is the Thompson E. Penney and Gretchen M. Penney Endowed Distinguished Associate Professor in the Richard A. McMahan School of Architecture at Clemson University.

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Call for

NOMINATIONS

LD+A and the IES to Award Student and Emerging Professional Memberships

The IES seeks to improve the lighted environment by bringing together those with lighting knowledge and by translating that knowledge into actions that benefit the public. To foster growth in the next generation of lighting designers, *LD+A* and the IES have partnered to offer students and EPs the opportunity to win a one-year IES Membership. Throughout 2026, one person will be selected each month to receive an award, with a total of six Student and six EP Memberships distributed. Winners will be notified and announced in future *LD+A* e-newsletters.

Applications are currently welcome and will be accepted on a rolling basis through September 30, 2026. Interested students and EPs must be nominated to be considered for this award. To apply, please submit the following to *LD+A* Editor-in-Chief Craig Causer at craig.causer@sagepub.com:

- A description of the type of membership for which you are applying (Student or EP) and why you are interested in becoming an IES Member.
- A 500-word letter of nomination describing why you are a suitable candidate for this award. Nominators may include supervisors, colleagues, mentors, professors, or advisors.
- Contact information including name, address, and mailing address.

To confirm eligibility for IES Membership, if selected, students will be required to submit an official school transcript while EPs must provide their resume and/or a letter from a current IES Member.

IES Student and EP Memberships offer a wealth of benefits including meaningful networking opportunities with colleagues and industry leaders, educational opportunities, and leadership development. Apply now to become a part of the IES, the recognized technical and educational authority on illumination.

PROJECT IN PICTURES

Pump Up the Jam

The **AO Arena** in Manchester, England, one of Europe's biggest music venues since the mid-1990s, featuring Pop headliners like Lorde and Katy Perry in 2025, underwent significant redevelopment to offer a greater number of music fans a more dynamic experience. The venue now includes standing room for an additional 6,200 people and a host of new spots serving stylish refreshments. The Mezz is one such establishment, a high-end restaurant and bar connecting guests to VIP seats and providing Michelin-star dishes in addition to a panoramic view of the stage. With a bar that remains open during and after the show and live DJs that keep the party pumping with post-show vibes, The Mezz and the broader project features work by lighting designer Faye Robinson and fixtures supplied by **Light Forms**.

Photos: Andrew Meredith

The lighting scheme **mimics the feel of a high-end boutique hotel** with a warm, inviting atmosphere.

Nova62 Track Spot lights and Powergear Track lights support Robinson's design intent focused on contrast, while **TinCan downlights provide comfortable optics** and slim, linear Micro S Profile fixtures add to the overall minimalist aesthetic

Subtle illumination creates a flowing harmony between the venue floor and The Mezz.

Inspiring and Connecting Young Minds

The IES Young Professionals Scholarship Fund sponsored the attendance of five lighting design students to IES25: The Lighting Conference in Anaheim, CA, in August. The students—either in their junior or senior year of undergraduate school or enrolled in a graduate program—were encouraged to share their conference experiences, which are included below.

Jenna Bryant

As a film and television professional transitioning into architecture, the 2025 IES Young Professionals Scholarship and IES25 were more than an introduction to the architectural lighting industry. For me, it was a moment of convergence. I came in with a background in visual storytelling and left with a deeper understanding of how lighting doesn't just shape scenes but systems and lives.

This fall, I begin my Master of Architecture at Southern California Institute of Architecture. The conference helped me bridge the gap between my experience with lighting for the camera and the material realities of architectural and civic design. I'm learning how light shapes our daily lives—how it affects bodies, behaviors, and the narratives we construct about place.

The EP pre-conference workshop grounded me in the fundamentals: who the players are, how the ecosystem works, and where design fits into manufacturing, specification, and integration. That big-picture overview was critical for someone like me, translating existing knowledge into a new professional language.

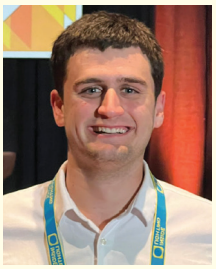
The EP tour of Disney's Grand Californian Hotel, led by the original architect and lighting designers, was unforgettable. They offered beautiful insights into their early design thinking for the resort, asking provocative and narrative questions such as how to translate a bungalow-style intimacy to a resort scale setting and how to light the entire experience "from within" to evoke an Old West atmosphere. These questions shaped the project's visual motifs in endless variation. The keynote by Walt Disney Imagineers echoed these themes of narrative-driven lighting and expanded them across theme parks, wayfinding, and immersive environments. As someone shifting from film to architecture, it was a powerful reminder that my instincts about space and narrative still belong, just in a new form.

From there, I sought out talks at the intersection of light and social impact: trauma-informed environments, lighting justice, and research on circadian health. Each one expanded my understanding of how lighting can serve communities, not just to illuminate but to provide care by creating more hospitable environments rooted in our histories, biology, and cultural experiences.

Throughout the conference, EP peers and seasoned mentors alike generously shared knowledge, answered my questions, and helped me navigate this new terrain. I was especially struck by how the lighting community isn't just open to people with unconventional backgrounds, it is in many ways built on them.

This conference marked the beginning of my education in architectural lighting, but it also made me feel like I'd found a community—one that values story, technical rigor, humanitarian care, and imagination. It added nuance to the direction of my future master's thesis, which explores how lighting and spatial memory might reimagine dying American cities as living entities: places with wounds, memory, and resilience. This lens, I believe, can help root communities more deeply in their environments while opening pathways toward alternative futures. In many ways, it mirrors my own journey of transformation, reimagining, and renewal.

I am deeply grateful for this experience, as it sparked a desire to keep learning from those working at the intersection of lighting, storytelling, and public space. I'm excited to stay connected to this community as I continue my education and seek opportunities to contribute.



Bruno Martinez

Going to IES25 in Anaheim was not just the next thing on my career agenda, it changed my life and molded me as an individual and a professional. Coming from Spain as a young professional and recipient of the scholarship, I had certain expectations when I attended the event, but I left with so much more: a new course in my life, connections that truly mean something, and immense pride to belong to such an active community.

As an architectural engineer majoring in electrical work, the bulk of my daily activities involve power systems, distribution, and ensuring that infrastructure is dependable. I love this aspect of engineering, but I've also long been interested in lighting and its ability to transform space, enhance design, and impact the human emotional experience in built space. Unfortunately, during my regular studies and classes, I'm not always free to study lighting extensively. That's why the conference was so vital for me: it permitted me to focus on something I truly love, and it allowed me to learn it in ways that will affect my studies and future.

The conference presented many opportunities to learn and meet new people. Attending the EP event was very important for me. Being with others who experience the same problems, goals, and excitement made me feel part of a helpful group. We shared our stories, talked about how lighting can help the environment, and encouraged each other to go beyond our limits. I came away from those meetings not just with networking contacts but also friendships and a feeling of belonging that will stay with me long after the event.

The gala was another great moment that showed the spirit of the IES community. It was more than just a party, it reminded us how important it is to be united, work together, and have a clear vision in our jobs. Seeing leaders, mentors, and peers all together inspired me to think about my own future. I understood that I could one day help younger people and influence the future of lighting design. The atmosphere was full of pride, elegance, and thankfulness, and it reminded me that our field is not just about technology but also about being human.

The conferences and discussions that I attended greatly helped me. I was fortunate to speak with seasoned professionals who shared their thoughts and advice. IES25 revealed to me how technical skills, creativity, and leadership co-exist in real life. It also informed me about the opportunities and challenges in areas including sustainability, technology implementation, and energy conservation. The sessions were like classrooms, and I attended many of the interesting lectures.

Looking back on my experience, I must sincerely acknowledge how the IES25 transformed my life. It was where recognition and inspiration collided, networking turned into actual connection, and career development co-existed with personal growth. Having traveled all the way from Spain for the event, it was all the more dear to me; it revealed how the lighting community is world-encompassing yet unified. I owe gratitude to the IES not only for the scholarship but also for the space that motivates young professionals such as myself to dream larger, innovate harder, and give back.

Leaving the conference, I feel prepared, encouraged, and inspired as never before. I envision the future as an exciting challenge, and I feel proud that IES25 represented an influential point in my journey as an engineer and an individual. I hope I can come back next year.

Emiliana Medina

I am deeply grateful to the IES for providing me with the opportunity to attend IES25 as an EP. This year's conference was an invaluable experience, bringing together a diverse community of lighting experts and offering a space to exchange knowledge, explore ideas, and build meaningful connections that will continue to shape my work as a designer.

My career started in the U.S. after graduating from the University of Colorado, Boulder, with a degree in architectural engineering, specializing in lighting and electrical systems. I began my professional journey

in Chicago, where I worked as an electrical engineer on complex, large-scale projects such as hospitals, research laboratories, and university campuses. Over time, my path evolved as I moved to Europe to pursue a Master's in Architectural Lighting Design degree and expand my practice through collaborations with different designers and studios across various countries. This experience has given me a unique perspective, allowing me to merge deep technical expertise with a culturally informed and design-driven approach to lighting.

Attending IES25 was a valuable opportunity to reconnect with the U.S. lighting community while sharing the insights I've gained through my international work. I found it especially rewarding to engage with peers and leaders across the full spectrum of the industry, from designers and researchers to manufacturers and educators. Having these varied voices in one place fostered rich discussions, where challenges were examined from multiple viewpoints and solutions were approached collaboratively.

The lectures and panels provided a wealth of technical knowledge and creative inspiration. I left with actionable ideas that I look forward to researching further and applying to my ongoing and future projects. The range of topics encouraged me to think critically about design strategies and explore innovative approaches to projects, from both a technical performance and a human-centric perspective.

A memorable highlight was the inspiring keynote session and site visit to the Disneyland Hotel. Experiencing the hotel firsthand and learning about its design process was truly remarkable. It reinforced the idea that the most compelling environments are the result of countless small, intentional decisions. Every element—from the architecture to the custom light fixtures—was carefully crafted to fit within a larger narrative, proving that the effort invested in perfecting even the smallest details is what brings a design to life. The keynote speakers from Walt Disney Imagineering shared a fascinating look at their creative process, illustrating how lighting is used not just for function but to create wonder, emotion, and immersion. This experience underscored the power of lighting as a tool for storytelling and meaningful human connection.

The most valuable part of the conference, however, was building and strengthening professional relationships. It was inspiring to meet new peers and reconnect with colleagues from previous events, creating a strong sense of community. I am especially grateful for the guidance and encouragement shared by experienced designers and industry leaders, whose perspectives have been invaluable. These conversations have already led to exciting new collaborations with international studios, allowing me to take on diverse projects and further expand the reach of my freelance practice.

Overall, IES25 was an energizing and transformative experience. I am sincerely thankful to the IES for making it possible for emerging professionals like me to participate in these conversations and to actively contribute to shaping the future of our industry.

Seonghyuk Son

I had the honor of attending IES25 as both a presenter and a recipient of the Young Professionals Scholarship. This opportunity was both professionally enriching and personally rewarding, as it allowed me to share my research, learn from diverse perspectives, and engage with both academic and industry professionals in the lighting field.

Preparing and presenting this work was an important milestone in my academic journey, as it not only showcased my research but also allowed me to receive feedback from an audience of experts and peers. The questions and comments that followed my talk provided valuable insights into how my study could connect with ongoing discussions in human-centric lighting and virtual reality applications.

Beyond my own presentation, attending other sessions was a truly inspiring experience. I was particularly fascinated by the range of topics covered under the broad umbrella of lighting research. Several talks focused on human-centric lighting, highlighting how light influences circadian rhythms and health. These sessions reminded me of the critical importance of designing lighting systems that go beyond functionality and aesthetics to support human well-being. The discussions on street lighting also expanded my perspective, emphasizing how urban lighting affects not just safety and visibility but also community well-being and environmental sustainability.

I was also drawn to presentations on the use of

biometric signals in lighting studies. These studies explored how physiological data can be integrated into lighting research to provide objective measures of comfort and performance. This resonated closely with my own approach of linking cognitive performance with environmental variables, and I felt encouraged to see that this integration of biometrics into lighting research is becoming a prominent direction.

Another highlight of the conference was the networking opportunities. I greatly appreciated the chance to connect with professionals from both academia and industry. The exchange of ideas across these two domains was particularly valuable, as it provided a holistic perspective on how lighting research evolves from theory to practice. Informal conversations during breaks and the lunch sessions were equally meaningful. These moments allowed me to build connections, learn about others' work, and share my own experiences in a more casual setting. I found these interactions to be not only informative but also motivating, as they reminded me that I am part of a larger community working toward similar goals.

Overall, IES25 was a deeply enriching experience. It provided me with the platform to share my research, broaden my understanding of current trends in lighting, and connect with experts and peers who share a passion for advancing the field. The diversity of topics gave me a comprehensive view of where lighting research is heading. Most importantly, the supportive and collaborative atmosphere inspired me to continue pursuing research that bridges design, technology, and human experience. I am grateful for the Young Professional Scholarship that made this opportunity possible, and I am confident that the knowledge and connections I gained will positively influence both my current work and my future career in the field.

Kianoush Vali

Attending IES25: The Lighting Conference was an enriching experience that broadened my understanding of the lighting industry and the ways in which light affects human experience. As someone passionate about lighting's impact on health, psychology, and daily life, this conference offered a rare opportunity to learn, network, and reflect on both the technical and human-centered aspects of lighting.

One of the most striking aspects of IES25 was the interdisciplinary nature of the community. The event brought together professionals from vastly different backgrounds, engineers, architects, lighting designers, manufacturers, and students. This diversity fostered dynamic conversations and revealed how lighting intersects with nearly every aspect of the built environment. For example, I participated in conversations about transportation facilities and learned how lighting design in such spaces often neglects human needs, such as circadian health and comfort. These exchanges emphasized the need for standards that better reflect human-centered design principles. I was especially struck by how often lighting is taken for granted in public infrastructure, and how critical feedback from non-experts like users and community members plays a critical role in shaping more inclusive, functional environments.

I appreciated the inclusion of both technical content and space for EPs to engage with leadership. Through the EP workshop, I gained insight into both the qualitative and quantitative aspects of lighting, including design simulations, data collection, and measurement techniques. My involvement in a Technical Committee discussion around lighting controls helped me understand how standards are shaped and how I might contribute as a young professional. This experience showed me how valuable it is to ask questions, challenge assumptions, and speak up, even when others have more experience.

Throughout the conference, I found opportunities to speak with potential employers and mentors about my research interests and career goals, particularly in human-centric lighting. These informal conversations were some of the most impactful moments of the event, as they helped me discuss my professional goals and identify where my perspective might fill existing gaps in the field. It also became clear that many in the industry are actively seeking fresh perspectives from researchers who can bridge technical rigor with real-world relevance. I also realized that part of my journey involves finding the right people: those who "sound like me" and value the same intersections between technology, health, and human experience.

Two research presentations at IES25 were especially relevant to my own work on the effects of lighting on cognitive function in older adults. Linhao Li presented during the session on circadian-effective lighting, and Seonghyuk Son shared findings in a session on virtual reality environments and spatial-lighting interactions. While their specific methodologies differed, both presentations reinforced how lighting design can significantly influence cognitive performance, comfort, and well-being, especially in aging populations. I followed up with both presenters after their talks to better understand the challenges they encountered in their studies, and I plan to stay connected with them for future collaborations and guidance as I continue my own research.

Overall, IES25 was more than just a conference. It was a chance to find a community, challenge my thinking, and gather both inspiration and practical tools. I left feeling energized and more focused on how to translate lighting research into meaningful impact across disciplines. The experience deepened my passion for the field of lighting and strengthened my commitment to applying what I have learned not only through research, but also through my future career.

In Memoriam

Michael S. Jannoff, Fellow IES

Michael S. Janoff passed away in August at the age of 85. He was a Fellow of the IES and Member of the IES Roadway Lighting Committee (RLC). His work contributed significantly to the IES publication RP8. At RLC meetings, Jannoff was respected for mentoring members and contributing to spirited conversations.

Janoff is remembered for his research in visibility, where he authored numerous white papers that were presented at various IES conferences with 12 papers published in *LEUKOS*, the journal of the IES, along with other articles and reports.

MEMBER MENTIONS

Lee Brandt has been promoted to senior principal at **HLB Lighting Design**.

Simi Burg has been promoted to principal at **HLB Lighting Design**.

Hadar Bendriem (top left), **Julie Donovan** (top right), **Clifton Manahan** (center left), **Erik Stroemberg** (center right), and **Michelle Tessier** (bottom) have all been promoted to associate director at **HLB Lighting Design.**

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CLASSIFIEDS

The 72-meter (~236-ft) Avas Lookout Tower in Miskolc, Hungary, shines bright with a new decorative lighting system to commemorate cultural events throughout the year and increase the energy efficiency of the historic site. A four-universe Pharos Designer LPC—implemented by designer and installer company Lisys-Project—can be accessed by city officials remotely via an integrated 3G/4G router to swap out color schemes such as that of the Hungarian flag seen here.

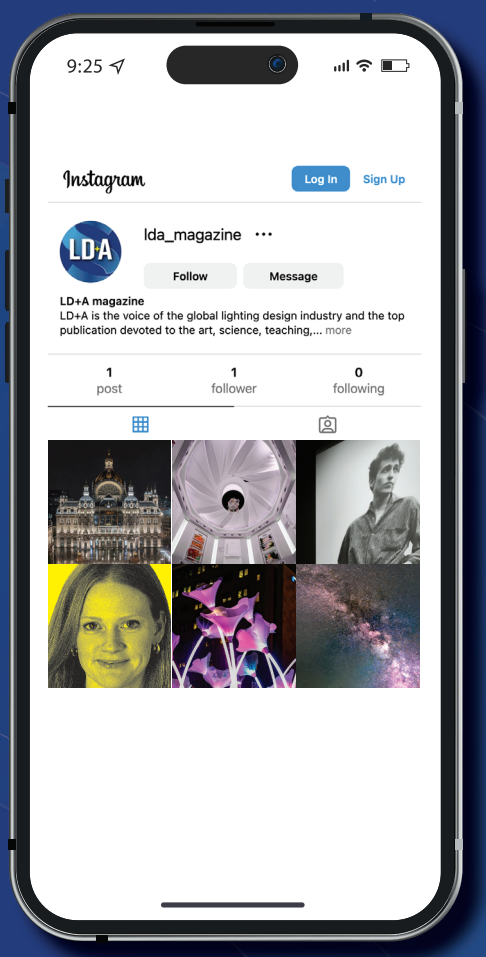
Photo: Zsolt Hlinka

LAST LOOK

All Along the Watchtower

Introducing LD+A on Instagram!

Follow @lda_magazine for the latest updates, behind-the-scenes content, and insights into the world of lighting design and application. Whether you're a **professional in the industry** or simply passionate about innovative lighting solutions, our Instagram account is the perfect place to stay inspired and informed.



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exteria

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Exteria is a outdoor lighting brand, debuting with HueCraft to bring specular performance to façades, with more landscape solutions to follow.

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