

2017

PROGRESS REPORT

The 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 240 submittals in 2017; 118 were accepted into the report.

IES PROGRESS COMMITTEE

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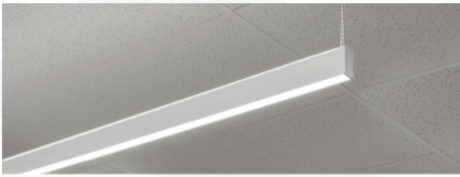
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Riffle & Associates

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Spectro Lume, LLC

**Shelli Sedlak, LC,
LEED AP**
Current, Powered by GE

Ardra Zinkon
Tec Studio



From **Finelite** comes the E2 Linear luminaire family. The E2 is the first micro profile pendant luminaire available with the ability to ship tailored lengths from 1 ft to 8 ft in increments of $\frac{1}{16}$ of 1 in. in 10 working days. The system can also be factory configured into continuous runs. It is the first micro-pendant luminaire to incorporate a simple screw adjustment gantry for leveling the fixture, resulting in faster installation.



The FLAMINGO from **Vibia** is an LED decorative pendant system that can be field-configured into different positions providing desired lighting effects. By separating the light source from the diffuser, the light can be directed to create effects unique to the space.



From **DECO Lighting**, the Vector Linear Architectural Luminaire family showcases the new DECO Tune system utilizing advanced 5-channel color tuning technology. The light engines simply snap into place once the housings are in installed.



The 65-W, 4-in. Cylinder series from **Meteor Lighting** offers up to 6,000 lumens from a 4-in. downlight. The fixture incorporates a unique Thermal Beam structural design which allows heat to be dispersed through the entire housing, improving LED performance and life



Current, powered by **GE** brings us the Current Lumination LED LOP. This system features an efficacy of 110 lpw, in-field customization of the uplight and downlight distributions, and a CRI and R9 of 90 using the GE TriGain technology. The system is Daintree network capable.



Also from **Current**, powered by **GE** is the Lumination LED LUS. This system delivers an industry leading 165 lpw and the highest total lumen output of 24,000 lumens. Available with multiple distributions and a CRI and R9 of 90, this fixture is also Daintree network capable.

SCONCE

The ZipThree Wall Mount 707 by **Vode Lighting** is the smallest profile linear wall mount in the industry at 0.25 by 3.78 in. ZipThree offers up to 137 lpw with 2,691 lumens per ft at 80+ CRI. Versions with a 90 CRI are also available.



PORTABLE LUMINAIRES

The Ascend and Ascend HE from **OLED Devices** make up the first family of OLED desk lamps to be submitted to the Progress Report. The desk lamps are available in a 42 to 46 lpw efficacy and an L70 life expectancy of greater than 10,000 hours at maximum brightness, and 50,000 hours at half brightness.



SOLAR EQUIPMENT

Solar equipment is gaining attention for energy savings and net-zero building efforts.



Meteor Lighting's Solar Bike Rack requires zero wiring and is photo sensor activated. The rack can provide 12 hours average lighting time, is available with a wide or narrow distribution and is available in 5700K, 3000K, amber, red, green or blue. The stainless steel product is made with fully recyclable materials.

RESEARCH

To continue to advance the field of lighting, research plays a vital role. One item was noted this year.



Purdue University has produced the research paper "Daylight Glare Evaluation with the Sun in the Field of View with Window Shades." The research, funded by Alcoa and **Lutron**, measured discomfort glare, evaluated existing glare indices, and examined alternate illuminance-based criteria through fabrics. Corrections were proposed for the Daylight Glare Probability when the sun is visible through the shades.

PUBLICATIONS

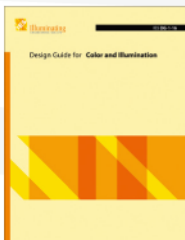
Over the past year, the IES published two recommended practices, a design guide and a guideline.



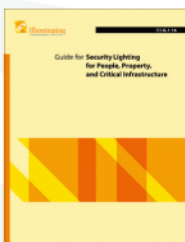
ANSI/IES/RP 29-2016 is a *Recommended Practice for Lighting for Hospitals and Healthcare Facilities*. The objective of this document is to provide context, define challenges, and demonstrate recommended lighting design practices for healthcare-specific environments.



ANSI/IES RP-30-1 is the *Recommended Practice for Museum Lighting*. The purpose of this document is to enhance the decision-making process by providing specific standards for satisfying the special requirements of museums and art galleries.



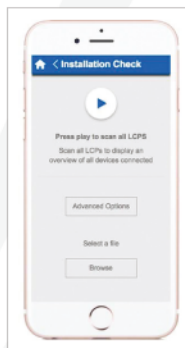
DG-1-16 is a *Design Guide for Color and Illumination*. This guide takes the reader from basic vision and color vocabulary, through methods of measuring and quantifying color, and culminates in the practical use of commercially available white light and colored lights.



G-1-16 is a *Guideline for Security Lighting for People, Property, and Critical Infrastructure*. The objective is to provide guidance for designing security lighting systems for new facilities and for the evaluation and retrofitting of existing facilities and systems in response to known or perceived threats.

DESIGN TOOLS

Last, but not least, we have one design tool that was accepted.



Eaton's new DALI Installation Checker is the first tool that verifies the installation and connectivity of all devices in a DALI network. The tool can be accessed from any smartphone, tablet or laptop computer with no additional hardware required. The DIC addresses all DALI devices, evaluates quality of the DALI bus, and compares device type and quantities to the system design.