2017 Competition Awards

Decorative             Functional              Lamps              Connected              Emerging

LIGHTING for tomorrow

Lighting is more than just bulbs and fixtures. It enables us all to live our lives. Each year, the Lighting for Tomorrow competition handpicks high efficiency lighting products that best blend form and function through inspired design. The end goal? Better lighting, and better living.

The Last 15 Years of Lighting for Tomorrow
Transforming Lighting for the Better

Lighting for Tomorrow has recognized exceptional new lighting products since 2002. Each year, the sponsors and co-sponsors of this unique and longstanding industry partnership consider the market barriers that inhibit the adoption and use of energy efficient residential lighting. They work together to create product categories and criteria that take into account evolving lighting technology and strive to help support its successful integration into lamps, retrofit kits and fixtures, and ensure that these products will meet consumer needs.

Here’s just one example of how Lighting for Tomorrow encourages and supports new product types:

How Lighting for Tomorrow Encouraged Efficient LED Filament Lamps

<table>
<thead>
<tr>
<th>LFT Category</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>No standalone category</td>
<td>Special entry category underscores efficiency and light quality characteristics; new bulb shapes and filament styles emerging</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Percentage of All Lamp Entries</th>
<th>3%</th>
<th>45%</th>
<th>92%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Efficacy of Entries</td>
<td>89 lm/W</td>
<td>98 lm/W</td>
<td></td>
</tr>
<tr>
<td>LFT Product Awards</td>
<td></td>
<td>ENERGY STAR expands scope to include LED filament lamps</td>
<td></td>
</tr>
</tbody>
</table>

ENERGY STAR

280+ products listed as of August 2017

Category Recognition | 2 LED Filament Lamps Awarded
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Dear Readers,

We are pleased to introduce the recipients of the 2017 Lighting for Tomorrow awards; this brochure features some of the most design-forward, innovative and energy efficient LED, OLED, and lighting control products on the market.

Consumers appreciate the importance of energy efficiency both for themselves and for society, but they also want products that support the design sensibility and quality of light appropriate for their homes. The competition emphasizes products that appeal to savvy, style-conscious buyers: products that are beautiful and highly functional, as well as energy efficient, so that they add to a sense of well-being.

The LED luminaires (fixtures), replacement lamps (light bulbs), and lighting controls recognized in the 2017 competition were carefully evaluated and scored by a diverse panel of expert judges based on their innovation, performance, quality, value, and design. Lighting for Tomorrow also sought new entry types such as ceiling fan lighting and connected products. For more information regarding the 2017 judges and evaluation criteria, please see pages 8 and 9.

There is now an expanding range of energy efficient products for every type of home, room, and application. The Lighting for Tomorrow competition provides manufacturers the opportunity to push the industry forward by introducing high quality and ground-breaking designs, contribute to the greater energy efficiency movement, and gain exposure for their unique brands and products among industry leaders and consumers alike.

We hope you will share the value by reviewing the products showcased in this brochure. We further hope that you will also help spread the good word – including promoting the products and considering them for use in your own home. We look forward to continuing to support the development of energy efficient residential lighting.

Sincerely,

The Lighting for Tomorrow Sponsors

“What once started out as more of an academic competition has evolved such that many products recognized in recent years reflect a far better understanding of what lighting buyers are really looking for; responsibly designed products that solve problems and offer quality. I know that’s what we strive for.”

Shelley Wald, President, WAC Lighting

Decorative Fluorescent Fixtures

LED fixtures, lamps, and retrofit kits
"In 2004 I stuck my neck out by trying to use CFL lamps in a decorative chandelier. Fortunately we decided to enter the Salem Chandelier in the first Lighting For Tomorrow competition. The concept was revolutionary – it became the Grand Prize Winner, and it very much helped our sales effort. That success encouraged us and others to be more innovative with new lighting sources like LED and OLED. Lighting For Tomorrow continues to provide a forum that encourages and showcases companies willing to take on the challenges of working with new technology."

Stephen Blackman, President and Chief Design Officer, Blackjack Lighting

“The Lighting for Tomorrow competition continuously challenges me as a fixture designer to maintain my focus on creating products that are not only aesthetically pleasing, but also meet high technical performance standards and market specific needs. I strive to create innovative product designs and look forward to the success of Lighting for Tomorrow and future advancements in lighting technology.”

Grant Chappelle, Product Design and Creative Manager, AFX
Connected or "Smart" Lighting

When evaluating connected products, two noteworthy trends were observed. The first is the drive for simplicity – making connected products as easy to set up and use as possible. Some luminaires, for example, may be mounted and wired as usual and controlled by a simple switch or dimmer as required. Their connected features are activated as desired via a wireless control or cell phone app. This feature also encourages the second trend which is to have the communications protocols involved invisible to the installer or user. The smart device makes the needed data translations automatically using wireless Bluetooth® or home Wi-Fi systems for communications.

New Directions in Lighting Artistry

The success of a decorative luminaire is often due to the way the designer uses various materials to achieve functional lighting along with a sophisticated artistic appearance. LEDs offer new possibilities since they can be mounted in close proximity to heat-sensitive materials and are not limited to configurations using standard sockets or even access for service or replacement. The results can be seen in this year’s judges’ design award winner where light is refracted by laser etched optical plastics and reflected from surfaces carefully finished to respond aesthetically to the color and character of the generated light.
Thinner and Thinner

Ceiling fixtures with flat luminous surfaces as well as the traditional thin or slim under-cabinet fixtures have become even thinner thanks to optical plastics and tiny LEDs designed to uniformly edge light large diffuse surfaces. And, no longer is the lighting limited to a single color tone as arrays of color-changing LEDs can be used for decorative effects as well as white-light color tuning.

“Filament” Bulbs - Larger and More Decorative

Two trends were apparent in the visible filament products submitted this year. One was the substantial increase in light output ratings suggesting that these bulbs are now functional light sources in their own right rather than just luminous decorations for dim environments. But, at the same time, we saw larger and more decorative bulb shapes enclosing decorative and increasingly-intricate LED filament structures.

Layers of Light

There are three basic types of lighting that work together in a home: ambient (general), task, and accent lighting. When combined, these lighting “layers” comprise functional design and enable comfortable illumination, specific household activities such as cooking or reading, as well as visual interest. Sometimes a single fixture can provide multiple light layers at the same time; in 2017 we saw a number of thoughtful products seeking to optimize this concept.
American Lighting Association  
www.americanlightingassoc.com

The American Lighting Association (ALA) is the only trade association representing residential lighting manufacturers, showrooms, distributors, manufacturer representatives, component manufacturers and industry-related companies. ALA members, totaling more than 1,200 in the United States, Canada and the Caribbean, are dedicated to providing the public with quality residential lighting.

Consortium for Energy Efficiency  
www.cee1.org

CEE is an award-winning consortium of energy efficiency program administrators from the United States and Canada. Members work to unify program approaches across jurisdictions to increase the success of efficiency in markets. By joining forces at CEE, individual electric and gas efficiency programs are able to partner not only with each other, but also with other industries, trade associations, and government agencies. Working together, administrators leverage the effect of their ratepayer funding, exchange information on successful practices and, by doing so, achieve greater energy efficiency for the public good.

UL  
www.ul.com/lighting

UL is a global independent safety science company with more than a century of expertise innovating safety solutions from the public adoption of electricity to new breakthroughs in sustainability, renewable energy and nanotechnology. Dedicated to promoting safe living and working environments, UL helps safeguard people, products and places in important ways, facilitating trade and providing peace of mind. UL provides testing and certification services to industry standards including UL, ANSI, IEC, NEMA, FCC, and IESNA. Additionally, UL is a leading provider of Photometric Performance and EMC testing in support of well-known lighting programs such as ENERGY STAR, Lighting Facts, and Design Lights Consortium.
Competition Co-sponsors

Lighting for Tomorrow would like to thank the following co-sponsors, who generously supported the competition by providing funding or in-kind contributions in 2017.

A fundamental requirement of the Lighting for Tomorrow competition is ENERGY STAR® lamp and fixture certification, which helps ensure quality for critical lighting attributes. All of the products featured in this brochure qualify for ENERGY STAR unless otherwise noted on their individual descriptions. Visit the website at www.energystar.gov, where a list of lighting product rebates by ZIP code is available.

Across the United States and Canada, energy efficiency programs like the organizations listed below provide resources for retailers, builders, and consumers who are interested in making energy efficient lighting choices such as the Lighting for Tomorrow winners. These organizations have a mission to help their customers save energy. If you are interested in learning more, start with your local electric utility or efficiency program provider. The Consortium for Energy Efficiency also compiles a "Residential Lighting Program Overview," which provides a list of energy efficiency program offerings for residential lighting. This summary is available at www.cee1.org.
2017 Competition Timeline

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formal 2017 competition launch</td>
<td>Website updates and submission forms go live</td>
<td>January 18</td>
</tr>
<tr>
<td>Competition kickoff</td>
<td>Lightovation Dallas International Lighting Show, Dallas, TX</td>
<td>January 18-22</td>
</tr>
<tr>
<td>Intent-to-submit forms due</td>
<td><a href="http://www.lightingfortomorrow.com">www.lightingfortomorrow.com</a></td>
<td>April 21</td>
</tr>
<tr>
<td>All entries due (actual working products are required)</td>
<td><a href="http://www.lightingfortomorrow.com">www.lightingfortomorrow.com</a></td>
<td>May 17</td>
</tr>
<tr>
<td>In-person entry judging</td>
<td>UL Research Triangle Park, NC</td>
<td>June 7-8</td>
</tr>
<tr>
<td>Winners notified</td>
<td>Via phone and email</td>
<td>July</td>
</tr>
<tr>
<td>Winners publicly announced, promotional kickoff</td>
<td>American Lighting Association Annual Conference – Vancouver, BC</td>
<td>September 10-12</td>
</tr>
</tbody>
</table>

2017 Judging Panel

The Lighting for Tomorrow judging panel consisted of eleven judges drawn from various areas of the residential lighting community. These individuals represent a diverse cross-section of experts in lighting technology, lighting sales, energy efficiency, lighting design, product testing, and media communications.

- **Rolf Bergman**
  Rolf Bergman Consulting
  Cleveland, OH

- **Eric Borden**
  Pathfinder Consultants
  Lake Worth, FL

- **David Edwards**
  UL
  Allentown, PA

- **Jeff LeBrun**
  DTE Energy
  Detroit, MI

- **Linda Longo**
  enLiGHTenment
  New York, NY

- **Candyce Marsh**
  Duke Energy
  Raleigh, NC

- **Jodie Orange**
  Living Lighting
  Toronto, ON

- **Erik Page**
  Erik Page & Associates
  San Francisco, CA

- **Bjarne Pedersen**
  Architectural Lighting Design, Inc.
  Toronto, ON

- **Greg Spigner**
  Ferguson, a Wolseley Company
  Raleigh, NC

- **Jeff LeBrun**
  DTE Energy
  Detroit, MI

- **Linda Longo**
  enLiGHTenment
  New York, NY

- **Candyce Marsh**
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- **Bjarne Pedersen**
  Architectural Lighting Design, Inc.
  Toronto, ON

- **Greg Spigner**
  Ferguson, a Wolseley Company
  Raleigh, NC

- **Tim Stumm**
  Lights Fantastic Dallas
  Dallas, TX

Evaluation process

The 2017 judging event was hosted by UL at the UL University facility. The judges viewed over 130 installed products and scored them based on the criteria for each entry category (detailed on page 9). Finalists were identified through reviewing the combined tallied scores and group discussion about the unique attributes of the high scoring entries. The overall best products were selected to be winners; high quality products with noteworthy features were chosen to receive honorable mentions or special awards. The lighting performance of LED and OLED products was verified by manufacturer-provided photometric reports from accredited NVLAP laboratories. In addition, a requirement of the Lighting for Tomorrow competition is that all recognized products meet the applicable ENERGY STAR® Luminaire or Lamp Criteria.
## Judging Criteria

<table>
<thead>
<tr>
<th>Judging Criteria</th>
<th>LED fixtures</th>
<th>OLED fixtures</th>
<th>Replacement Lamps</th>
<th>Lighting Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color appearance</strong>: based on subjective evaluation of color appearance of product; data about CCT is provided in final submission form.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Color rendering</strong>: based on subjective evaluation of color appearance of objects illuminated by installed product; data about CRI is provided in final submission form.</td>
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<tr>
<td><strong>Appropriate light output and distribution</strong>: does the product provide sufficient light output (lumens) for intended, installed application?</td>
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</tr>
<tr>
<td><strong>Application efficiency</strong>: does the product deliver appropriate light levels to the intended task with lower wattage than comparable, traditional light sources for that task?</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Lamp efficacy</strong>: does the product deliver the specified light output with lower wattage than comparable, traditional light sources?</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Value and marketability</strong>: subjective assessment of quality and appeal of the product compared to the price.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aesthetic appearance and style</strong>: subjective evaluation of quality and appeal both in the on and off state; consideration given to appropriateness of materials and design for residential use.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Replaceable components</strong>: what is the ability of a fixture to allow the consumer to replace an OLED or LED component if it should fail?</td>
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<td></td>
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</tr>
<tr>
<td><strong>Ease of installation</strong>: how simple it is to install?</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Ease of set-up</strong>: how simple it is for a consumer to initially program the product and adjust its operating characteristics?</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Ease of use</strong>: how simple it is for a consumer to use?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Replaceable components</strong>: is the consumer able to replace a SSL component if it should fail (rather than having to discard the product)?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Universally applicable</strong>: based on number and types of fixtures where product could be installed.</td>
<td></td>
<td></td>
<td>(Retrofit kits only)</td>
<td></td>
</tr>
<tr>
<td><strong>Compatibility with existing lamps and luminaires</strong>: how well does it work with currently installed lighting?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Ability to interface with other systems</strong>: how well does this product work with other systems in the home?</td>
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</tr>
<tr>
<td><strong>Functionality</strong>: does the product work as described?</td>
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<td></td>
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</tr>
<tr>
<td><strong>Innovative design</strong>: demonstrative of taking advantage of unique characteristics of LED for light quality and appearance</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Innovative engineering</strong>: for SSL: demonstrative of taking advantage of unique characteristics of LED (form factor, durability, weight, beam characteristics, ability to tune color, etc.). For controls: product employs new or exciting technology or offers new or unusual product or operational features.</td>
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</table>

**Ceiling fan lighting**: Fans must meet ENERGY STAR requirements for air flow efficiency, and are then judged on lighting quality (same criteria as LED fixtures)

**Connected lighting**: Products were judged separately based on ease of installation, setup, and use; user interface; interoperability; value; application efficiency; field serviceability; and innovation.

**Bonus points**: The judging panel awards bonus points for entries exhibiting other desirable characteristics such as senior friendly attributes, interoperability, controllability, dark sky-friendly features, dimming quality, use of recycled materials, and color tuning.
Decorative Lighting

- Iridium Pendant
  - Blackjack Lighting
- Dharma
  - Project Greener Planet

Winners

Functional Lighting

Task-oriented Lighting

- 3-Head LED Motion-Activated Flood Light
  - Good Earth Lighting Inc.
- Duo AC LED Color Option Light Bar
  - WAC Lighting

Winners

Replacement Lamps

- LED Filament Nostalgic T6
  - Bulbrite Industries Inc.
- REFINE SERIES PAR38 17W
  - GREEN CREATIVE

Winners

Honorable Mention

- Post
  - AFX, Inc.

Judges Design Award

- Zephyr LED Pendant
  - Hubbardton Forge

Honorable Mention

- 12’ Dimmable Ultra Slim LED Undercabinet Wave with Integrated Wave Sensor
  - L’Image Home Products

Honorable Mentions

- LED A19 Title 24 Compliant JA8 Qualified
  - Bulbrite Industries Inc.

- JA8 Certified LED A21 Lamp
  - MaxLite
**Connected Lighting**

- **Winners**
  - 6SL Bluetooth Speaker Light by Lithonia Lighting
  - Acuity Brands Lighting
  - Decora Smart™ with Wi-Fi Technology
  - 1000W Universal LED/Incandescent Dimmer
  - Leviton Manufacturing Co., Inc.

**Emerging Technologies**

- **Winner**
  - Aerelight A1
  - OTI Lumionics Inc.

- **Emerging Technology Awards**
  - LED Linkable, Multi-Spectrum Growlight by Lithonia Lighting
  - Acuity Brands Lighting

**Special Recognition**

- **Judges Challenge**
  - Volta
  - Emerson

- **Filament Design**
  - A19 LED SW Spiral Filament Bulb
  - Globe Electric Company (USA), Inc.

- **Meets Market Need**
  - G40 LED Vintage Filament Bulb
  - Globe Electric Company (USA), Inc.

- **Meets Market Need**
  - SYLVANIA ULTRA LED 3-Way A21 LEDVANCE

- **Senior Friendly**
  - epikós
  - PlanLED