'08

Next Generation Luminaires SSL Design Competition

Call For Entries

Next Generation Luminaires

Purpose

The purpose of the Next Generation Luminaires (NGL) SSL Design Competition is to encourage and recognize high-quality, energy-efficient commercial luminaires using solid-state lighting (SSL) technology, namely light-emitting diodes (LEDs).

Next Generation Luminaires encourages manufacturers to develop innovative commercial luminaires that are energy-efficient and provide high lighting quality and consistency, glare control, lumen maintenance, and luminaire appearance needed to meet specification lighting requirements.

Background

The Department of Energy (DOE) administers federal investment in SSL research and development to advance the technology and realize its projected energy efficiency, lighting service, and economic benefits. DOE has developed a comprehensive program to support the effective commercialization and application of SSL in the general illumination market. This program includes technology demonstrations, product testing, development of industry performance standards and test procedures, information dissemination, and design competitions to recognize and reward excellence in application of this emerging technology.

On-going advances in SSL technology and the growing number of product introductions signal an opportunity to encourage, recognize, and promote LED luminaires suitable for the commercial specification market, implicitly differentiating them from LED products that will not meet the needs of lighting designers, specifiers, and users. DOE has partnered with the Illuminating Engineering Society of North America (IESNA) and the International Association of Lighting Designers (IALD) to organize this new competition.

Participants

The competition is open to LED, lighting, lighting system, and luminaire manufacturers, including LED device and system manufacturers in conjunction with their luminaire manufacturing partners.

Product Criteria

Only white light, general illumination products primarily applicable to the commercial sector will be evaluated. Participating LED products must provide useful illumination for a task, space, or object. Holiday lights, light sculpture, lighted fabrics, lighted signs, color changing lights, and other products not designed for general illumination are outside the scope of the NGL program and competition. Products are not limited to any particular lighting application. Indoor and outdoor applications are eligible for submission.

Awards

Because the quality and availability of LED products can still vary greatly, the competition will not only recognize best in class winners but will also recognize multiple merit worthy products in each category. The resulting competition marketing materials will be an excellent resource for lighting specifiers seeking quality LED products currently ready for specification.

Winners will be announced in early 2009 and winning products will be promoted throughout the ensuing year.

SSL Design Competition

Categories

The 2008 Next Generation Luminaires SSL competition recognizes the on-going rapid changes and advancements in white LED technology for general illumination. LEDs, when incorporated into well-designed luminaires, are now appropriate for a growing number of lighting applications.

Full competition rules, guidelines, and required documentation can be found online at www.ngldc.org.

The NGL competition will accept entries in the following categories:

- **Market-Ready Luminaires.** This category is for luminaires that are in production and ready for specification. Emphasis in this category will be on quality and practicality of the luminaire for real-world lighting applications in the commercial specification market. Applications are not restricted but sponsors are particularly interested in the following:
  1. Luminaires capable of meeting DOE's ENERGY STAR® criteria for solid-state lighting, including undercabinet shelf-mounted lights, portable desk/task lights, and recessed downlights. For full ENERGY STAR® requirements, see www.netl.doe.gov/ssl/energy_star.html.
  2. Luminaires for other general illumination applications, including but not limited to: cove lighting, valence lighting, pendants, wall washers, wall sconces, accent lighting, refrigerated and non-refrigerated retail display case lighting, exterior architectural lights, facade lighting, street and area lighting, and pedestrian pathway lighting.
- **Emerging Products:** This category encourages new, innovative ideas for application of white LEDs to solve lighting design problems. The Emerging Products category is open to products that are not yet market-ready, but a working prototype must be provided. Luminaires as well as LEDs and LED systems designed for integration into furniture, equipment, or architectural or structural elements are eligible.

Timeline

Activity	Date
Call for Entries begins	May 28, 2008
Intent-to-submit forms due	July 31, 2008
All entries due	October 15, 2008
Judging session	November 6-7, 2008
Winners notified	December 2008

WWW.NGLDC.ORG

Organizers

Next Generation Luminaires is jointly organized by the Illuminating Engineering Society of North America (IESNA), the International Association of Lighting Designers (IALD), and the U.S. Department of Energy (DOE), represented by Pacific Northwest National Laboratory (PNNL).

IESNA is the recognized technical authority on illumination. For over 100 years, its objective has been to communicate information on all aspects of good lighting practice to its members, to the lighting community, and to consumers, through a variety of programs, publications, and services.

IALD is an international organization supporting a network of architectural lighting design professionals who satisfy its rigorous qualification process, are distinguished by a unique blend of aesthetic and technical expertise, and operate at the highest level of integrity to create a better world through leadership and excellence in lighting design, and to cultivate the universal acknowledgement and appreciation of the power of light in human life

DOE's Building Technologies Program conducts research and development on technologies and practices for energy efficiency, working closely with the building industry and manufacturers. **PNNL** is a DOE multi-program national laboratory that delivers breakthrough science and technology to meet key national needs.