

# LIGHTING *for* tomorrow



**ENERGY STAR Lighting Partner Meeting**  
**Atlanta – March 13, 2007**

**Kelly Gordon**  
**PNNL**

american  
lighting  
association

CEE   
Together We Can Change  
National Markets



# Organizers

- American Lighting Association
- Consortium for Energy Efficiency
- U.S. Department of Energy  
– Represented by PNNL

american  
lighting  
association



*Working Together,  
Advancing Efficiency*



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# Objectives

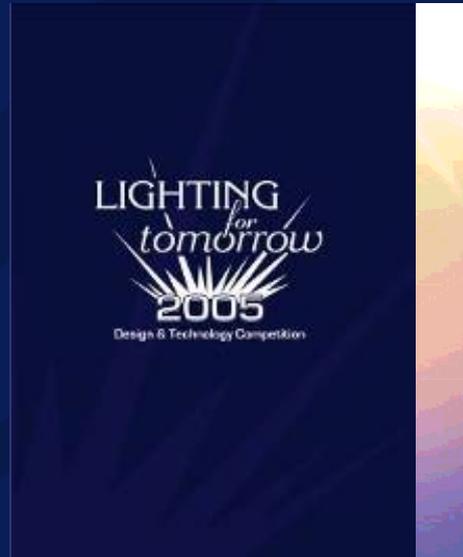
- Encourage and recognize attractive, energy-efficient residential lighting fixtures.
- Build demand for energy-efficient lighting by demonstrating that it can be highly attractive and functional.
- Encourage technical innovation in energy-efficient lighting.



# Competitions to Date



2004



2005



2006

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# 2006 Yearbook Competition

- 55 entries
- 10 winners
- 16 honorable mentions
- 10,000 Yearbooks printed

**Indoor Fixture Families**

Of nearly 60 indoor and outdoor lighting fixture families that competed to appear in the Yearbook, the judges selected 26 fixture families. In the indoor category, 7 designs were selected as 2006 Lighting for Tomorrow winners, while 12 additional designs were awarded honorable mention. In the outdoor category, 3 designs were designated as winners, with 4 others earning honorable mention. These designs were submitted by the twelve manufacturers listed below. Lighting for Tomorrow congratulates each of the award-winning manufacturers and their design teams for their outstanding achievement.

- Good Earth Lighting
- Sea Gull Lighting
- Lithonia Lighting
- Hunter Lighting Group
- American Fluorescent
- Kichler
- Deancoils
- Dolan Designs
- Progress Lighting
- Eclipse Lighting
- Justice Design Group
- Quorum International

**Lighting for Tomorrow Winners**

- San Miguel p.14
- Carlisle & Grace p.16
- Neo-Steele p.18
- Sanctuary p.20
- Aria Series p.22
- Olympia p.24
- Xena p.26

**Honorable Mentions**

- Dakota™ Melted Rim p.28
- Bend™ p.29
- Dakota™ Broken Rim p.30
- Dauphine p.31
- International p.32
- Meloe p.33
- GREEN Series p.34
- Restoration Series p.35
- Glasgow Series p.36
- Facets Series p.37
- Sylvan Park p.38
- Rice p.39





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**GOOD EARTH LIGHTING**

Indoor Winner





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**SEA GULL LIGHTING**

Indoor Winner





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**LITHONIA LIGHTING**

Indoor Winner





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**HUNTER LIGHTING GROUP**

Indoor Winner





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**AMERICAN FLUORESCENT**

Indoor Winner





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**KICHLER**

Indoor Winner





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**DEACOINS**

Indoor Winner





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**LITHONIA LIGHTING**

Outdoor Winner





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**LITHONIA LIGHTING**

Outdoor Winner





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**PROGRESS LIGHTING**

Outdoor Winner



# First SSL Competition

- 30+ entries
- Judging at CLTC
- 4 winners
- 4 honorable mentions
- Announced Dec 2006



# Winner – Undercabinet

- **Diode 28 by American Fluorescent**
  - 5 watts
  - Introduced at Dallas Market



# Winner – Undercabinet

- **Linear by Lucere Lighting**
  - 18 watts
  - Available through sales reps



# Winner – Portable Desk/Task

- **Halley by Lucesco**
  - 19 watts; dimmable
  - Floor lamp version



# Winner – Outdoor

- **Lakeland by Progress Lighting**
  - 3.5 watts
  - Complete family of fixtures



# Honorable Mention

*In-cabinet lighting*



**LED Bullet by  
American  
Lighting**



**HF2Eye  
by Osram  
Sylvania**

**Luxrail by  
io Lighting**



*Lighted handrail*



**Javelin by Albeo**

*Undercabinet light*



# What's Ahead for 2007?

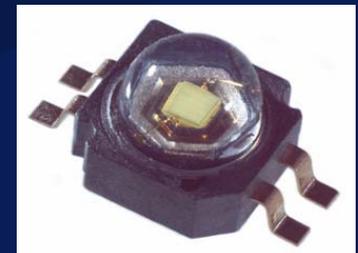
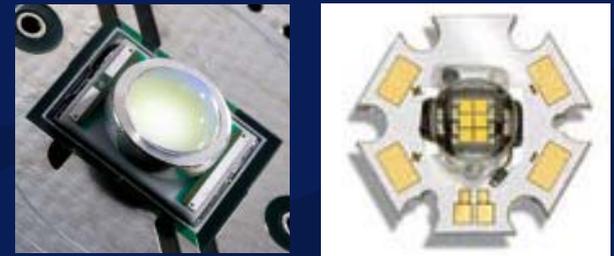


# One Competition, Two Categories

- CFL fixture families
  - Indoor and outdoor
  - Meet ENERGY STAR



- LED-based fixtures
  - Niche applications
  - Cutting edge design category



# Eligible Fluorescent Fixture Types

- Indoor fixture families
  - At least 3 matching fixtures for different applications
- Outdoor fixture families
  - At least 2 matching fixtures for different applications
- Meet requirements of ENERGY STAR Residential Light Fixture criteria, v. 4.0



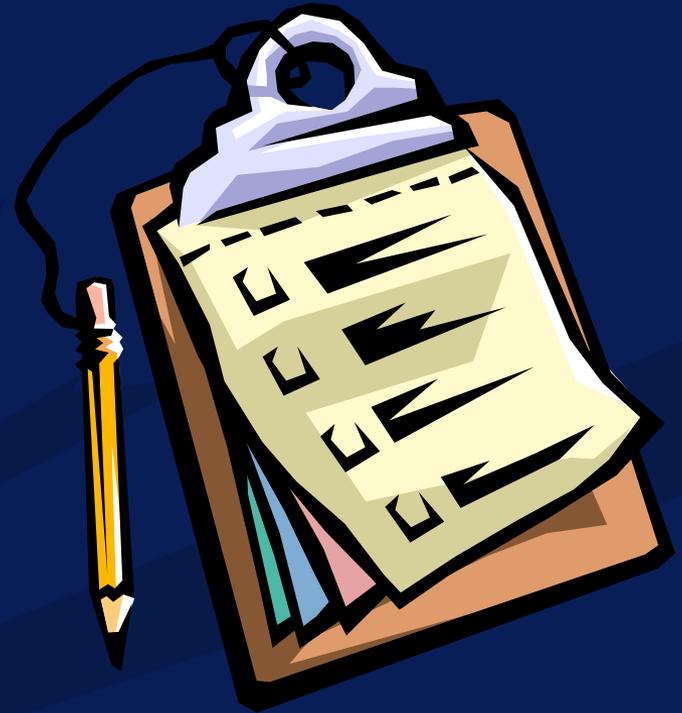
# Eligible LED Fixture Types

- Niche applications
  - Undercabinet and in-cabinet
  - Portable desk/task
  - Outdoor porch, path, step
  - Recessed downlights
- Cutting edge design category
  - Not restricted to niche applications
  - Think outside traditional fixture types



# LED Minimum Requirements

- No screw-based fixtures
- LED luminous efficacy
  - 40 lm/W for < 5000K
  - 50 lm/W for 5000K +
- Driver efficiency
  - 85% minimum
- LED life
  - 35,000 hours to 70%



# Judging Criteria

- Lighting quality
  - Color appearance
  - Color rendering
  - Illuminance levels and distribution
- Application efficiency
- Thermal management
- Aesthetic appearance



# Bonus Points

- Dimming capability
- Innovative use of LEDs
- Dark sky friendly design for outdoor fixtures
- No off-state power consumption



# 2007 Timeline

- Jan 19 – Announced competition
- Mar 31 – Intents to submit due
- May 31 – Entries due
- Sep 9 – Announce winners at ALA conf



# 2007 Winner Promotion

- Yearbook publication
- LED winners publication
- Press
- Trade shows
- Builder promotion
- Energy efficiency programs



# For More Information

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[www.lightingfortomorrow.com](http://www.lightingfortomorrow.com)

