Plans for 2007

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Pacific Northwest National Laboratory

DOE SSL Workshop

2 Feb 2007

Organizers

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

american lighting association

CEE

Working Together, Advancing Efficiency

LIGHTING for tomorrow

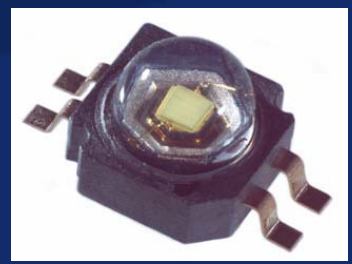
One competition, two categories

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



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





LIGHTING for tomorrow

What are the objectives?

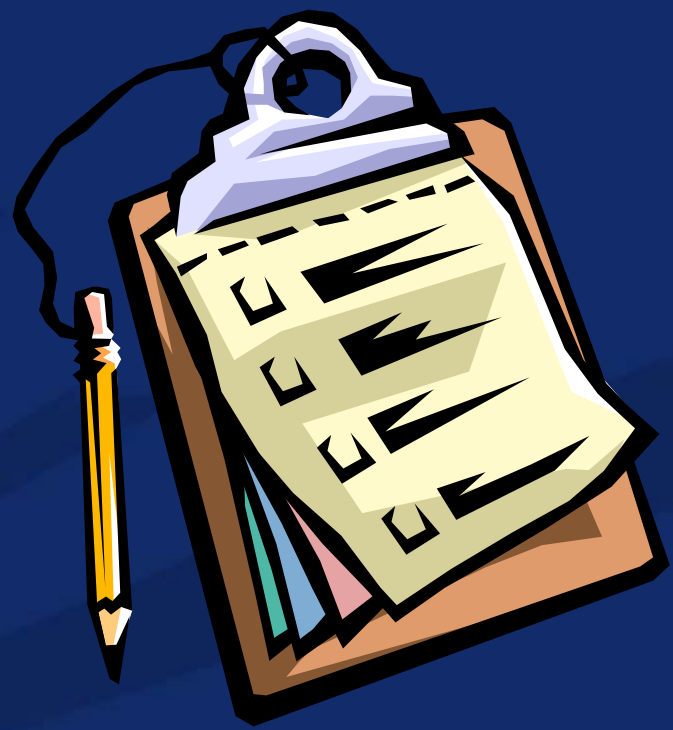
- Encourage energy efficiency and quality
- Recognize design innovation
- Evaluate fixtures employing LEDs
- Facilitate learning by lighting fixture industry
  - Identify common problems and solutions
  - Raise awareness of LED technical attributes

What fixture types are eligible?

- 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

What are the 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%



What are the judging criteria?

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

Bonus points for:

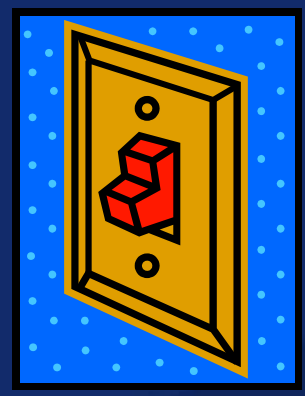
- Innovation
  - Designs that take advantage of unique LED attributes

- No off-state power consumption

Who can participate?

- Niche applications
  - Manufacturers
  - Independent designers and students ONLY if partnered with a manufacturer
- Cutting edge design category
  - Manufacturers
  - Independent designers
  - Students

What to submit?



- Niche applications
  - Prototype or production luminaire

- Cutting edge design category
  - Prototype or production luminaire

  OR
  - Working model

What's the timeline?

- Mar 31 – Intents to submit due
- May 31 – Entries due
- June/July – Judging
- Sep 9 – Announce winners
  - ALA conference in San Antonio

LIGHTING for tomorrow

Then what happens?

- Publicity
  - Brochure similar to 2006
  - Press
- Show and tell
  - LED conferences
  - Dallas Market
  - Light Fair
  - Energy efficiency organizations & utilities

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