



U.S. Department of Energy
Energy Efficiency and Renewable Energy

Transformations in Lighting

DOE Solid-State Lighting R&D Workshop

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Ringling in the New Year





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DOE Gateway Demonstrations: Oakland Street Lighting





2007 Lighting for Tomorrow Grand Prize Winner: LLF LR6 Downlight





Lighting for Tomorrow 2008

- Fixtures meeting ENERGY STAR criteria
- Decorative fixtures
 - Chandeliers, sconces, table lamps
 - Device efficacy of **50 lm/W**
- Future LED Showcase
 - Fixtures using world's highest efficiency LEDs
 - Device efficacy of **90 lm/W**



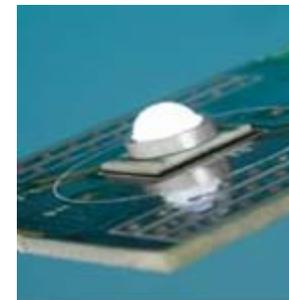


Laboratory Achievements – Tomorrow's Products

- *“LLF develops new lamp that shatters world record for energy efficiency” [113.6 lm/W]*
November 2007
- *“Nichia delivers 134 lm/W at 350 mA”*
October 2007
- *“Cree achieves highest efficacy for a white power LED” [129 lm/W for cool white and 99 lm/W for warm white]*
September 2007



LLF Inc.



Cree Inc.



Perspectives

- Market perspectives from industry, municipalities, utilities, design community
- R&D progress
 - R&D Project Presentations
 - Poster Session
- DOE pathways to market
- Your role: listen, comment, network, identify opportunities to partner



What's Next – Jim's Wish List

- Commercial downlights for high ceilings
- All-SSL office lighting systems with punch
- Innovative bathroom or vanity lighting
- Blazing retail spotlights
- LEDs embedded in kitchen cabinetry and office furniture



**“Once a new technology rolls over you,
if you’re not part of the steamroller
you’re part of the road.”**

Stewart Brand

