



Next Generation Luminaires

SSL Design Competition

Engaging Specifiers

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2009 ENERGY STAR Lighting Partner Meeting
March 19, 2009 - San Antonio, TX

Background

- Lighting for Tomorrow (residential)
- ENERGY STAR (expanded to commercial)
- DOE Designer's Workshop
- MOU with IESNA & IALD
- Next Generation Luminaires (commercial)

Designers Workshop

- Sponsored by DOE, March 2008
- Big issues discussed
 - Truth in advertising
 - Standards
 - Replacement, serviceability, modularity
 - Standard cut sheets, model specifications
 - Further engagement of design community

NGL Partners

- IES
- IALD
- DOE



Illuminating
ENGINEERING SOCIETY

INTERNATIONAL ASSOCIATION OF LIGHTING DESIGNERS

IALD



NGL Competition Distinctives

- Inclusive rather than exclusive
- Independent testing of finalists
- Diverse set of judging experts
- DOE channels of promotion
 - Utility incentive programs
 - Demonstrations

Requirements

- Market-ready luminaires & emerging products categories
- Market-ready requirements
 - Minimum requirements for efficacy & color quality for some categories
 - LM-79 photometry, LED & driver data sheets & 3 product samples required

2008 Judging Event



Judges

Greg Ander
Nancy Clanton
Frank Florentine
John Gebbie
Stefan Graf
Mike Grather
Michael Hennes
Ron Kurtz
Samantha Lafleur
Jeff McCullough
Naomi Miller
Avraham Mor
Melanie Tayllor
Charles Thompson

Nov. 6-7, 2008

Underwriters Laboratory, Raleigh, NC



What was sent

- 188 Intents-to-submit (62 manufacturers)
- 68 products arrived at UL (29 manufacturers)



Evaluation Criteria

Market Ready

1. Color appearance
2. Color rendering
3. Appropriate illuminance
4. Appropriate luminance
5. Application efficacy
6. Aesthetic appearance & style
7. Serviceability & replacement

Bonus Points

- Innovation
- No off-state power use
- Dark-sky friendly
- Adjustability/Flexibility
- Integrated system



Judging Approach

- Organized by application
 - Market Ready
 - Emerging
 - Best in Class (discretionary)
- Product Evaluation
 - Installed and lighted
 - Table top
 - Documentation
- Process
 - Independent judgment
 - *Preliminary* scoring
 - Discussion and decision



The Process



What we saw

- Product emphasis
 - 30% linear LED (undercabinet, cove, display etc.)
 - 25% downlights
- Luminaire efficacy
- Maintenance issues
- Testing issues
- What we didn't see



Recognition

- Emerging Category
 - 14 products judged
 - 5 recognized as 'noteworthy'



Beta Lighting ***LED Linear Pendant***



Ledion Lighting *TD26 Downlight*



Winona Lighting *Subline*



GO Lighting Technologies

GO FLL



GO Lighting Technologies

GO R312N1E1



Recognition

- Market Ready Category
 - 48 products judged
 - 22 recognized for satisfying all basic criteria
 - 3 of these 22 awarded 'Best in Class'



MP Lighting *LED72*



Amerlux Lighting Solutions

Cylindrix II



Specialty Lighting Industries

1009-LED



Specialty Lighting Industries

1500-LED



Tech Lighting *LED Pendant*

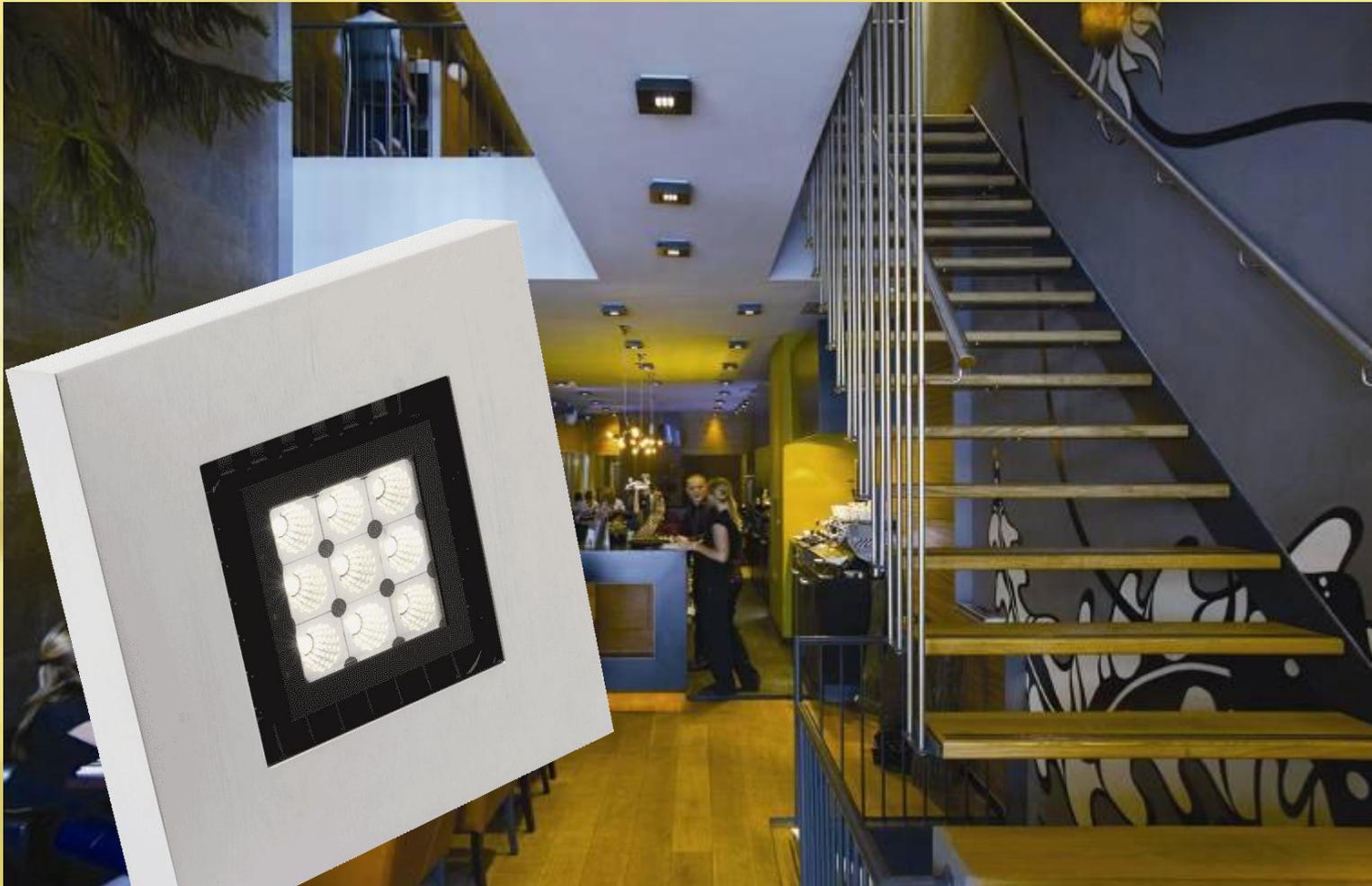


Gallium Lighting

GS6 Downlight



Philips Color Kinetics eW Downlight Powercore



Lightolier/Philips *Calculite LED Downlight*



Amerlux Lighting Solutions

Evoke 2.9



Cree LED Lighting LR4



Cree LED Lighting LR6



MP Lighting L161



Philips Color Kinetics eW Cove Powercore



GE Lighting

Architectural Cove lighting



LED-Linear Xoolux



Philips Color Kinetics eW Profile Powercore



Albeo Technologies

C-Series LED High Bay



Cree LED Lighting LR24



Winona Lighting

Winscape LED16



Best in Class

- Winona Lighting – *STEP03*
- GE Lighting – *Immersion*
- Journée – *AZARA*

Winona Lighting *STEP03*



GE Lighting *Immersion*



Journée Lighting AZARA



Future Competitions

- Exterior installation of street lighting entries
- Standard product sheets with each entry
- Replacement/serviceability in entry requirements
- Discussions with manufacturers about true innovative designs
- Bench mark fixtures for each judging category
- Temperature measurement requirements to evaluate life claims
- Integration requirements
- Dimming installations for judging
- “End of Life” statements
- Decorative/hospitality category

2009 Competition

**2009 Competition launches at
LightFair – May 2009**

**We look forward to seeing your
products!**

www.nglfdc.org



Questions?

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