Engaging Specifiers

Ruth Taylor
Pacific Northwest National Laboratory

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
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
• Emerging Category
  – 14 products judged
  – 5 recognized as ‘noteworthy’
Beta Lighting
LED Linear Pendant
• Market Ready Category
  – 48 products judged
  – 22 recognized for satisfying all basic criteria
  – 3 of these 22 awarded ‘Best in Class’
Specialty Lighting Industries
1009-LED
Tech Lighting

LED Pendant
Gallium Lighting
GS6 Downlight
Philips Color Kinetics
eW Downlight Powercore
Lightolier/Philips
Calculite LED Downlight
Cree LED Lighting
LR4
Cree LED Lighting
LR6
MP Lighting L161
Philips Color Kinetics
eW Cove Powercore
GE Lighting
Architectural Cove lighting
Philips Color Kinetics
*ew Profile Powercore*
Cree LED Lighting
LR24
Winona Lighting
Winscape LED16
Best in Class

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

Immersion
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 launches at LightFair – May 2009

We look forward to seeing your products!

www.nglIdc.org
Questions?

Ruth Taylor
ruth.taylor@pnl.gov
(509) 375-2389