



Competition Partners

Partnerships to link energy efficiency & lighting quality

International Association of Lighting Designers

IALD







What Makes NGL Different?

- Inclusive rather than exclusive
- Performance evaluation with extensive documentation
- Judged in characteristic applications and "hands on"
- Diverse, professional judging panel
- DOE channels of promotion



- For the design community:
 - In-depth peer review of 600 + products
 - High visibility and communication
 - Catalog/website to use as a reference
- For manufacturers:
 - Professional evaluation and feedback
 - Enhanced credibility for recognized products
 - Exposure through DOE's marketing channels



Participation

	2008	2009	2010	2012	2013 (indoor)	All
Intents	188	265	328	338	156	1275
Judged	61	126	138	234	99	658
% of intents judged	32%	48%	42%	69%	63%	52%
Awards (rec + BIC)	22	47	37	90	32	228
% of judged awarded	36%	37%	27%	38%	32%	35%



2012 Outdoor Competition

Winners' Announcement - February 2013





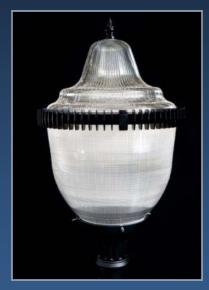
2012 Outdoor BIC Winners



"Evolve™ LED Scalable Cobrahead" by GE Lighting



"fraqtir™ Outdoor–Style S170" by The Lighting Quotient



"OXFORD" by Relume Technologies, Inc.



"TV and Dial LED" by Edge Lighting



2013 Indoor Judging Panel



Jeff Brown Melanie Taylor Charles Thompson Mary Matteson-Bryan Avi Mor

Scott Shellberg
Dan Blitzer (support)
Daniel Rogers
Samantha LaFleur
Jim Baney
Aram Ebben
Craig Bernecker
Ruth Taylor (support)



Judging Approach

- Organized by application
- Product Evaluation
 - Installed and lighted
 - Table top (2nd fixture)
 - Documentation
- Process
 - Independent, blind judging
 - Preliminary scoring
 - Discussion and decision
 - Post judging analysis & verification

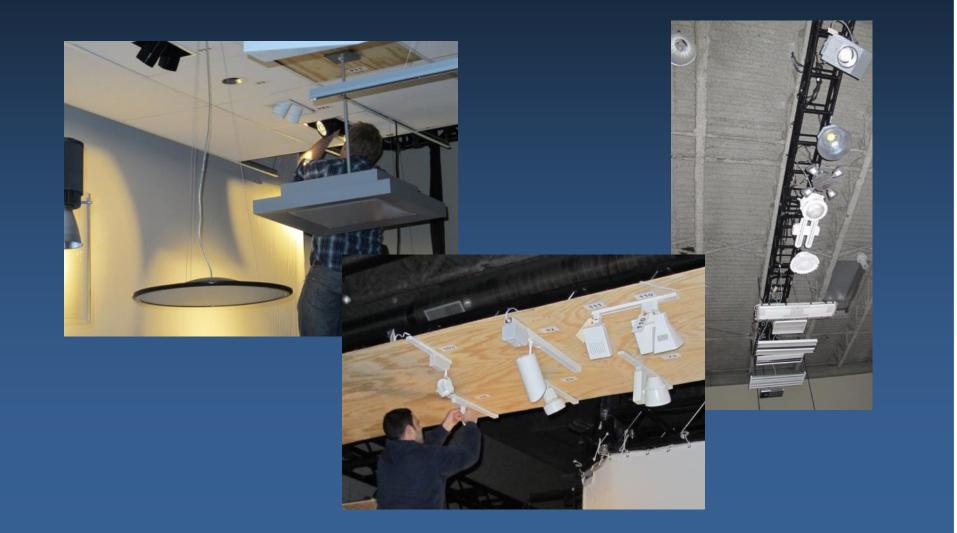




Making it Work









2013 Indoor Products Judged

	Judged	Awarded
Linear (pendant, recessed, surface)	18	9
Accent (track, multi-unit, recessed)	17	7
Downlights – recessed	12	0
Industrial /Utility	11	6
Color changing	9	4
Decorative	8	0
Personal undercabinet, task	8	3
Grid Ceiling	8	1
Wall washers	6	2
Cove	2	0



Judging Criteria

In-person evaluation:

- Color quality
- Illuminance
- Light distribution
- Glare control
- Serviceability
- Value
- Aesthetic appearance

Documentation analysis:

- Energy efficiency
- Power quality
- Lumen maintenance

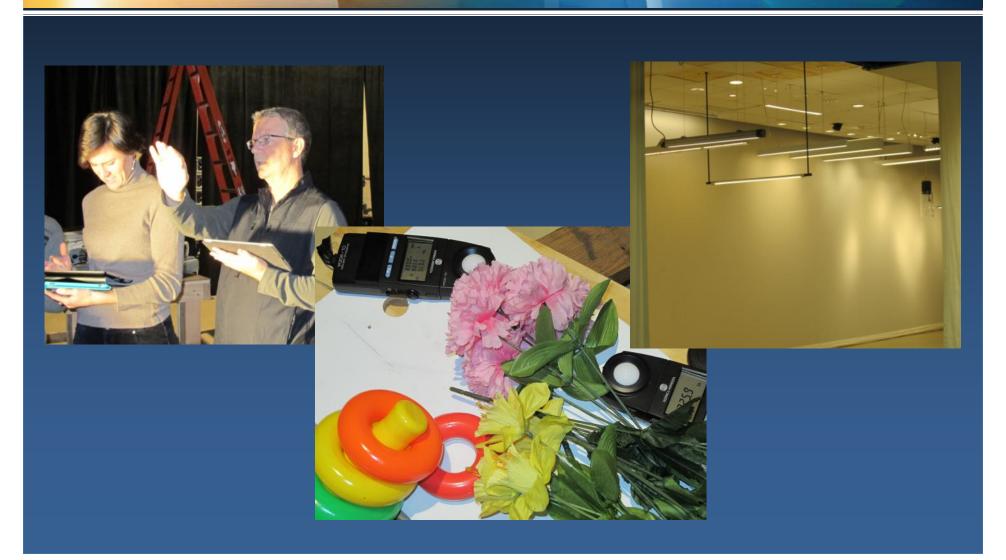
Bonus points:

- Adjustability/Flexibility
- Innovation
- Dimming performance





Evaluating Lighting Quality



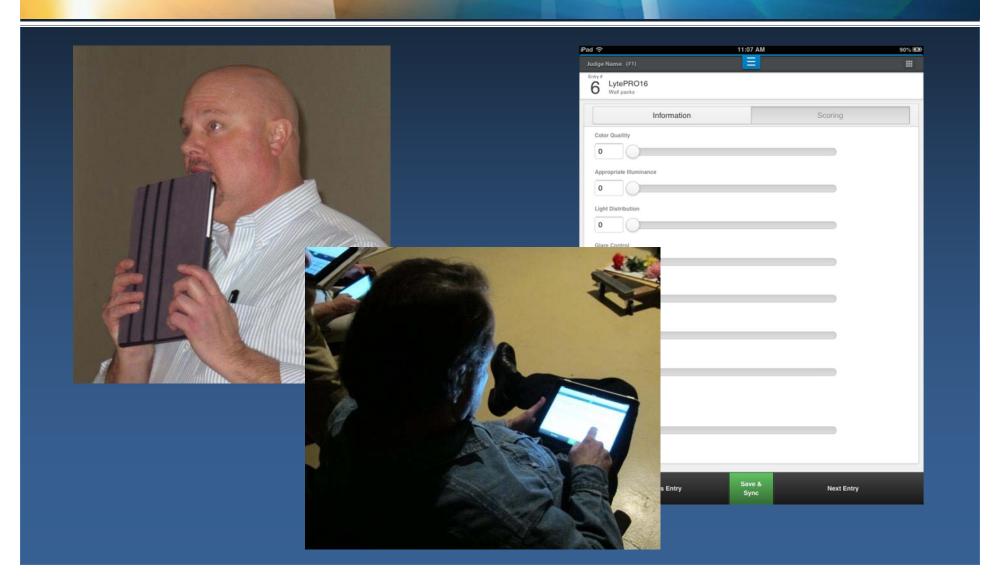


Evaluating Serviceability





How the Scoring Works





Required Documentation

General

- Luminaire specification sheet
- Product photos/marketing materials

LED Lighting Facts documentation

- LM-79 test report (including sphere data)
- Product specification sheet
- LM-80 test report on LED package/module/array
- LED package/module/array specification sheet
- ISTMT on submitted model
- ENERGY STAR TM-21 Calculation

Other

- Installation/serviceability statement
- Driver specification sheet/dimming interface spec sheet
- Product warranty/end-of-life statement





Selecting Winners

- Recognized means 'suitable for specification'
- Best in Class must stand out overall and in category
 - Relatively few products meet this dual standard







Indoor 2013 Best in Class



XLE-3-10 Xpress by Digital Lumens

Trac-Master T254L Cylindra by Juno Lighting Group

W Series LED by Acuity Brands/Lithonia Lighting



Highlights from Indoor 2013

- Documentation through LED Lighting Facts Program
- Impressive in-situ installation for judging
- Higher efficacies
- Significant color improvements
- Increased dimming submissions
- Top categories: linear pendants and track luminaires
- A few new design approaches
- Still waiting on emerging/innovative products



Efficacy Advancements

All recognized products

2008 - 37 lm/W

2009 - 52 lm/W

2010 - 45 lm/W

2012 - 65 lm/W

2013 - 75 lm/W (indoor)



Thanks! Questions?

Ruth Taylor ruth.taylor@pnnl.gov