What Will It Take To Achieve Energy-Efficient Residential Lighting?

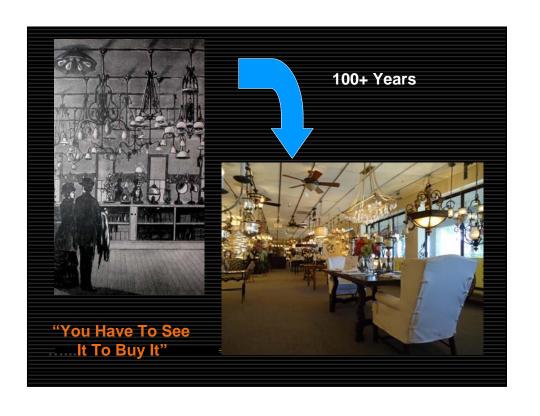
2012 CNC/CIE Workshop – Toronto November 30, 2012

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Characteristics - N.A. Residential Lighting Market:

- Diverse Many Manufacturers & Retailers
- Retailers (Majority of Sales): Showrooms Small Businesses, Often Family. Personal Service, Design Assistance, Installation & Customization
- "Big Box" Retailers: Commodity Sales
- Consumer Oriented
- Luminaire Products Sold On Appearance (Via Retail Showrooms)
- Luminaire Performance/Function Is "Visually Evaluated", Not Calculated Or Photometrically Determined
- Quality Lighting
- Lighting Energy Efficiency of Limited Interest Until Recently





What Will It Take To Achieve Energy-Efficient Residential Lighting?

- Technology
- **Product Availability**
- **Consumer Education**
- Price
- Promotion
- **Quality of Light**



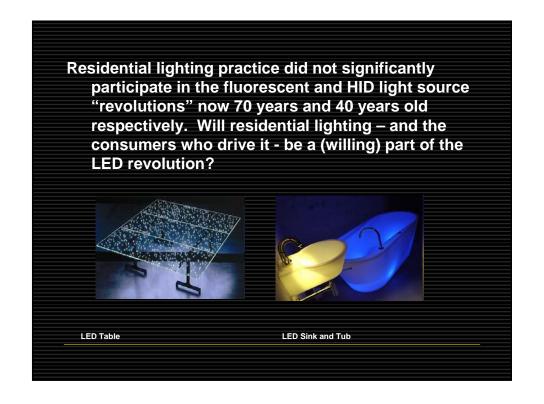


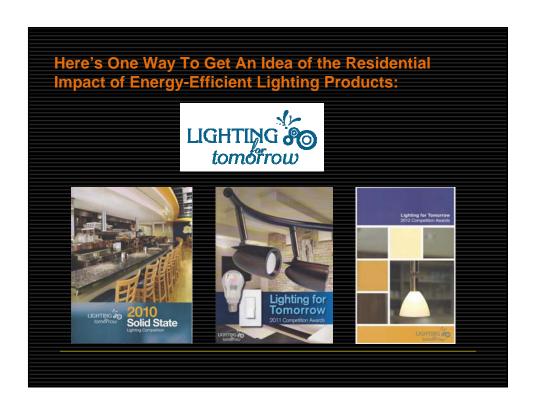




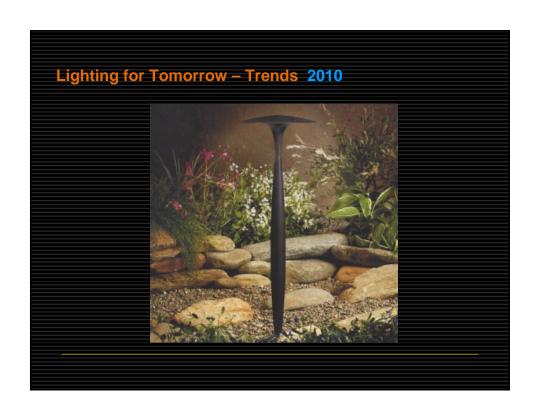






































Residential Energy-Efficient Lighting – Are We There Yet With CFLS and LEDS?

- Quality Lighting Can Be Done
- "Sweet Spot" Luminaires (LED Downlights, Under-Cabinet, Task & Accent) Are Common & Dropping in Price
- The Market Is Increasingly Offering:
 - Variety of Product Choices, Styles, Finishes
 - Price Points
 - Custom Designs
 - Lighting Performance (Color, Flicker, Dimming & Control) Which Consumers Expect

What About 2013?

The Lighting for Tomorrow Competition Will Include:

- LED Luminaires
- Screw-in LED Replacement Bulbs
- Fixture Retrofit Kits
- Lighting Controls & Control Systems
- OLED Luminaires (For the First Time)

