

SSL PRODUCT QUALITY ASSURANCE

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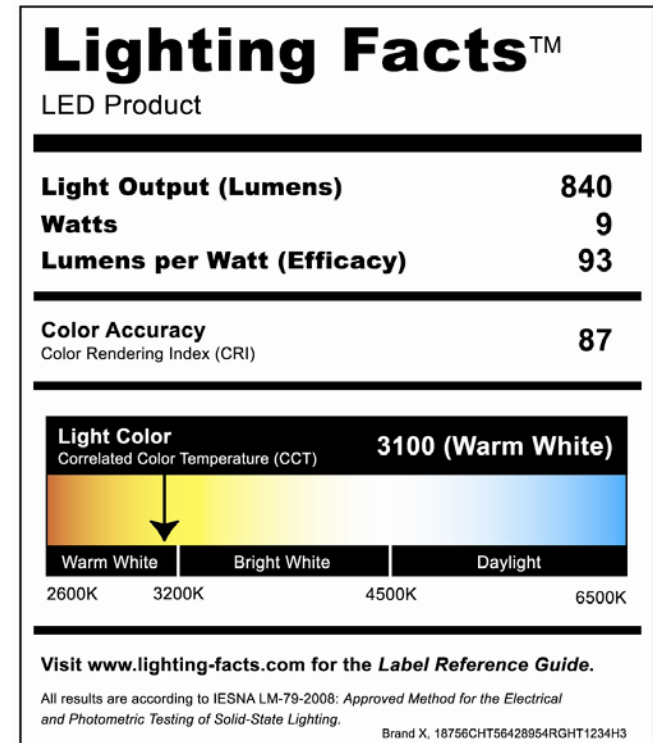
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Problems and Lessons from CFLs

- Problems:
 - Poor color quality resulted in early removals
 - Low light: 27-watt CFLs were not seen as equivalent to a 100-watt incandescent as claimed
 - Early bulb burnouts were a major problem
- Lessons:
 - Be aggressive about dealing with technology failures that affect main benefit claims
 - Know and admit technology limitations
 - Establish minimum performance requirements

SSL Quality Advocates

- Goal: Assure and improve quality of SSL products
- Joint effort: DOE and NGLIA
- Product performance reporting initiative
- SSL Quality Advocates will:
 - Pledge to support objectives for SSL quality
 - Use Lighting Facts™ label, or ask for it
 - Continue to work on quality improvement



www.lighting-facts.com

The SSL Quality Advocates

- For manufacturers, retailers, distributors, lighting designers, efficiency programs, utilities
- Sign up at www.lighting-facts.com
- Pledges received so far:
 - 15 lighting manufacturers
 - 5 retailers and distributors
 - 4 lighting professionals and energy organizations
 - Many others have expressed their intention to join
- DOE will require evidence of LM-79 testing before listing products on the site



Key points

- Joint effort by NGLIA and DOE to avoid CFL experience and promote quality in SSL
- False, or mistaken, claims disappoint customers
- Luminaire efficacy concept not well-understood
- Manufacturers should report performance using LM-79 and other standards
- Rest of the value chain can support
- Seek consistent reporting of key parameters
- Get everyone to “sign up”

SSL Quality: What's Been Done?

- √ Luminaire Manufacturers' Guide
 - ▣ Lighting Facts label
 - ▣ Educational vehicle; no specific performance level required to participate
- √ Voluntary SSL Quality Pledge Program
 - ▣ Sign up to support objectives for SSL quality
 - ▣ Use the label, or ask for it
- √ Lighting Facts Website
 - ▣ www.lighting-facts.com

SSL Quality: What's Next?

- Foster continuous quality improvement
- Guide for source manufacturers
- Other quality metrics
 - ★ Lifetime
 - Overall reliability, not just lumen depreciation
 - Tighter tolerances on color specs?
 - Interfaces, construction quality?
 - Environmental stability?
 - Etc.