STAKEHOLDER MEETING

SSL Category and PUD Development
Generalized DLC Development Process

• DLC aggregates requests/suggestions for developments
  – Maintain “wish lists”
  – Specification Development (new categories)
  – Specification Revisions (new performance thresholds)
  – Policy Development (new or revised policies)

• Prioritize wish lists periodically
  – Program management judgement
  – Active review with Technical Committee
  – Surveys of Members

• Prioritized tasks undertaken for development
  – Any significant program changes to through Stakeholder Input Process (SIP)
Stakeholder Input Process

• Identify issue for input – new spec, update to existing spec, change to DLC procedure, etc.
• Provide clear request to stakeholders for input
  – Sent to entire distribution list (manufacturer, testing labs, lighting designers, specifiers, members)
  – Sent via email, posted on website
  – Includes firm response date
• Use ad-hoc respondent committee to review input
• Discuss critical issues via conference call and create a “statement of input”
• Deliver input to DLC Technical Committee
Concepts to Keep in Mind...

• Category development and revision are prioritized in response to DLC Member needs, and are informed by industry perspective

• Members have diverse interests, but all looking for energy savings and persistence

• Feedback that can help particular efforts get prioritized:
  – Specific market data (market share and saving potential)
  – Technical information
  – Suggested alternatives and solutions for challenges identified
Current Developments
V4.0 Transition Timeline

Finalized V4.0 TRT Announcement: 
June 1, 2016

Cutoff for Submission under V3.0/V3.1:
August 31, 2016
• Allows submission of products currently in process

V4.0 Compliant Products Identified on QPL:
January 2017
• Allows programs to filter/sort/search as needed

Delisting of products not meeting V4.0:
April 1, 2017
Proposed Spec Changes (TRT 4.1)

• New General Application Category
  – Very High Output Outdoor Lighting, ≥25,000 lumens
• New Primary Use Designations
  – U-Bend Replacement Lamps
  – G24q/GX24q Based Replacement Lamps
• Definition Change
  – Allow Refrigerator Case Luminaires to employ pin-type connectors for the electrical connection only, but not for mechanical support
• Input Requested
  – “Hazardous” definition for future Hazardous Environment Lighting Category
• Additional Efforts Under Discussion For Development
  – Definition change to restrict Linear Replacement Lamps to G13 base
  – T5 Linear Replacement Lamps
Policy Proposals Overview

• Revision to Private Labeling Policy
  – Require Private Label Applicants to provide proof of safety certification under own organization

• Rated Data for Single and Family Grouping Applications
  – Require rated data to be representative of product’s tested configuration

• Adoption of ANSI C78-377-2015
  – Updated color metrics standard

• Additional Proposals Requested Addressing:
  – DC/PoE Systems
  – White Color Tuning
Summarized Wish List

- Ambient Lighting
- Kits and Lamps
- Niche and Misc. Products
- Non-SSL Technologies
- Dimmable Lamps
- Definitional Clarifications
- Removable/Replaceable Lamps
- Warranty
- Pre-Set Drivers to Manage Lumen Depreciation Over Time
- Dimming Performance
- Remote Phosphor
- AC LEDs
- Testing Large Products
- Flicker
- Surge Protection
- Lab Accreditation
- Ambient Temperature Testing
- Multiple Sourcing of LEDs
- Color Tuning
- Expansion to Family Grouping
- Strict Worst Case Rules
- Rules on Aimable Products
- Thermal Fold-back
- Pre-Set Drivers to Manage Lumen Depreciation Over Time
- Multiple, Unknown LED Variations Within a Product
- Safety Certification
Evolving Our Process
Balancing Needs

Pushing Efficacy
Increasing Flexibility
Additional Product Metrics
Informing Product Selection

Compromising Quality
Maintaining Rigor
Manufacturer Cost
Luminaire Level Requirements
Establish Predictable Schedule for Spec Revisions

- Increase transparency
- Provide signal to market
- Increase opportunity for input
Up-To-Date Performance Data

• Critical to utility programs to inform development of incentive measures
• Concern: cost to industry
• Currently, no straightforward process to address new product generations
Maintain Up-To-Date Performance Data

- Listing accuracy
- Phase out discontinued products
Predictable Schedule for Major Revisions

• This is a brainstorm!
• What should the frequency be?
  – Keep in min typical 9-month grace period!
  – How does this align with product development cycles
• Example: Every x months, increase efficacy to eliminate bottom y% of any given general application category
  – Make additional adjustments as needed
• Minor revisions, redefinitions, new spec development would continue to operate independently of this schedule
Drive Efficacy AND Quality

- Ensure current metrics meet needs of market
- Define “quality” metrics
- Create system of Allowances for products with special features
Efficacy and Quality

• Utilities deeply interested in energy savings
  – Efficacious products
  – Products that stay installed
• Efficacy cannot come at the expense of performance

• Challenge: How to DEFINE quality?
  – How to EVALUATE quality

• Optical Control
• Glare
• Color Performance
• Long Term Performance
Enable Product Selection

• Translate luminaire level performance to the application setting
• Additional metrics?
• Design guidance?