Updates to V5.0 in Response to COVID-19

April 28, 2020
Agenda

• Summary of Industry Concerns
• DLC Member Utility Perspective
• Timeline Updates
• Dimming Requirement Updates
• Updated Documents
• Response Summary
• Conclusion
Industry Concerns

1. Lack of resources to meet the V5 timelines and requirements
2. Supply chain constraints, resulting in delays in development and/or availability of components with varying quality
3. Reductions in projects, where existing product is not able to be sold
4. Ability to meet surveillance testing timelines
DLC Member Utility Perspective

• **Efficiency programs are trying to continue projects**
  - Continuing to process applications and rebate payments (still need to hit program goals)
  - Focusing on safety procedures to return to in-person
  - Using downtime for education and training

• **Expect large volume of projects in 2021 from backlog of 2020 projects**
  - Considering increased incentives to help keep the focus on efficiency
  - Hoping to make up for lost savings; new DLC efficacy requirements help
  - Since the QPL will reflect V5.0 requirements starting January 1, 2021, the V4.4 delisting date is very important for utility programs
The DLC’s Response
The DLC is a Consortium, our success is collective, and we are dedicated to work with our stakeholders to balance future needs with current realities. In response to feedback from manufacturers and others over the past several weeks, we are making some changes to the V5.0 SSL Technical Requirements, both in terms of timelines and the policy itself.
V5 Timeline as Released (February 14, 2020)

- **QPL UPDATE:**
  - Products that meet V5.0 requirements auto-update to V5.0 on QPL

- **V4.4 apps accepted**
  - V4.4 products may be updated to V5.0
  - V5.0 new product applications accepted

- **DELISTING:**
  - Products that do not meet V5.0 efficacy & dimming requirements delisted

- **V4.4 products may be updated to V5.1**
  - V5.0 products may be updated to V5.1
  - V5.1 new product apps accepted

- **Oct 31**

- **Dec 31**

- **2021 →**

- **Oct 15**

- **Dec 31**

- **DELISTING:**
  - Products that do not meet V5.1 requirements delisted
Updated and Extended Timeline (April 28, 2020)

QPL UPDATE: Products that meet V5.0 requirements auto-update to V5.0 on QPL

V4.4 apps accepted
V4.4 products may be updated to V5.0
V5.0 new product applications accepted

DELISTING: Products that do not meet V5.0 efficacy requirements delisted

V4.4 products may be updated to V5.1
V5.0 products may be updated to V5.1
V5.1 new product apps accepted

DELISTING: Products that do not meet V5.1 requirements delisted
Extended Timeline

- The extended timeline gives manufacturers more time to:
  - Update V4.4 products to V5.0 and V5.1
  - Submit V5.0 new product applications
# V5 Requirements Summary

<table>
<thead>
<tr>
<th>Topic</th>
<th>V4.4 to V5.0 Changes</th>
<th>V5.0 to V5.1 Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficacy</td>
<td>Efficacy is increased</td>
<td>New general application and update PUD</td>
</tr>
<tr>
<td>Color</td>
<td>None</td>
<td>Changes to chromaticity and color rendition requirements</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New color maintenance requirements</td>
</tr>
<tr>
<td>Light Distribution</td>
<td>None</td>
<td>Additional distribution requirements</td>
</tr>
<tr>
<td>Controllability</td>
<td><strong>New DLC Standard dimming requirements</strong></td>
<td><strong>Comprehensive dimming requirements and controls reporting</strong></td>
</tr>
<tr>
<td>Allowances</td>
<td>None</td>
<td>New allowances and higher maximum</td>
</tr>
<tr>
<td>DLC Premium</td>
<td>Increased efficacy and new dimming requirements</td>
<td>New color and discomfort glare requirements</td>
</tr>
<tr>
<td>Tolerances</td>
<td>None</td>
<td>New and updated tolerances</td>
</tr>
<tr>
<td>Lumen Maintenance</td>
<td>None</td>
<td>TM-21 Addendum B compliance and uneven intervals exception</td>
</tr>
<tr>
<td>Reference Housings</td>
<td>None</td>
<td>Removed for some lamps; replaced with beam angle requirement</td>
</tr>
<tr>
<td>Power Factor &amp; THD</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Warranty</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Safety Certification</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
# Updated V5 Requirements Summary

<table>
<thead>
<tr>
<th>Topic</th>
<th>V4.4 to V5.0 Changes</th>
<th>V5.0 to V5.1 Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficacy</td>
<td>Efficacy is increased</td>
<td>New general application and update PUD</td>
</tr>
<tr>
<td>Color</td>
<td>None</td>
<td>Changes to chromaticity and color rendition requirements</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New color maintenance requirements</td>
</tr>
<tr>
<td>Light Distribution</td>
<td>None</td>
<td>Additional distribution requirements</td>
</tr>
<tr>
<td>Controllability</td>
<td>None</td>
<td>Comprehensive dimming requirements and controls reporting</td>
</tr>
<tr>
<td>Allowances</td>
<td>None</td>
<td>New allowances and higher maximum</td>
</tr>
<tr>
<td>DLC Premium</td>
<td>Increased efficacy and new dimming requirements</td>
<td>New color and discomfort glare requirements</td>
</tr>
<tr>
<td>Tolerances</td>
<td>None</td>
<td>New and updated tolerances</td>
</tr>
<tr>
<td>Lumen Maintenance</td>
<td>None</td>
<td>TM-21 Addendum B compliance and uneven intervals exception</td>
</tr>
<tr>
<td>Reference Housings</td>
<td>None</td>
<td>Removed for some lamps; replaced with beam angle requirement</td>
</tr>
<tr>
<td>Power Factor &amp; THD</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Warranty</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Safety Certification</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
V5.0 Dimming Requirements

• The original V5.0 policy required dimming for DLC Standard Indoor Luminaires and Indoor Retrofit Kits

• Postponing the DLC Standard dimming requirements means manufacturers must only meet the new efficacy requirements by December 31, 2020
  – If a product does not meet the new efficacy requirements of V5.0, manufacturers will still need to update

• QPL wide, this means that 46,600 more products, across 4,982 product families, meet the V5.0 requirements without needing to update
  – The next auto-update to V5.0 is still on schedule for June 3, 2020 and will include the products that don’t meet the original V5.0 dimming requirements
Updated Documents

- The following documents have been updated to reflect these changes:
  - V5.0 Policy Document
  - V5.0 Technical Requirements Tables
  - Manufacturer and Industry Guidance
Response Summary

• The last day **V4.4 products may be updated** to V5.0 and V5.1 has been extended by **1 month**

• The last day **V5.0 new product applications** are accepted has been extended by **3 months**

• **Dimming requirements for V5.0 Standard** products have been postponed to V5.1

• No requirements have changed for V5.0 Premium products
Conclusion
Conclusion

The DLC remains dedicated to our mission to enable energy optimization through quality and connected solutions for people and the environment and we will work with the EE community and the lighting industry to continue to deliver resources that support high quality, energy efficient lighting. In the meantime, the DLC staff hopes these amendments to V5.0 provide the industry with some relief in navigating this unprecedented time.

• The DLC will consider the industry's assessment of COVID-19 impacts as they relate to the V5.1 timeline in June 2020.

• As always, we are open to insight and better understanding of how your business has been or will be affected.

  – Please email us at info@designlights.org with more information