



Dear DLC Members and Stakeholders:

The DLC is pleased to release the following draft update to the Technical Requirements for Horticultural Lighting as Version 2.0, with a proposed effective date of January 4, 2021. Please submit all comments using the [V2.0 Comment Form](#) to comments@designlights.org by **Tuesday, June 16, 2020**.

[View the Draft Horticultural V2.0 Technical Requirements](#)

DRAFT Technical Requirements for LED-based Horticultural Lighting: Version 2.0

V2.0 contains six key updates to the [requirements for horticultural lighting products](#), effective January 4, 2021. These updates work to continue the industry transition from traditional lighting data and metrics to horticultural-specific lighting data and metrics to better represent horticultural lighting performance. This draft also addresses barriers to listing variations of products by introducing a process for “family grouping” of products and private labeling of already-listed OEM products.

1. Revision to increase efficacy threshold

Consistent with the published [Horticultural Revision Cycle](#), the V2.0 efficacy threshold has been increased to $\geq 2.10 \mu\text{mol} \times \text{J}^{-1}$. The new threshold is based on an analysis of all products currently listed on the Horticultural QPL and is set at the value that allows the top 85% of products, in terms of photosynthetic photon efficacy (PPE), to remain listed. The DLC’s -5% tolerance on efficacy has not changed with this revision.

2. Revision to align with ASABE terminology (S640)

The DLC has updated policy language to more clearly align with and directly reference the definitions from the American Society of Agricultural and Biological Engineers (ASABE) *ANSI/ASABE S640: Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms)*.

3. Revision to align with UL 8800

With this V2.0 revision, and consistent with requirements proposed in the current policy version, products are now required to be certified by an OSHA NRTL or SCC recognized body to ANSI/UL 8800 (ANSI/CAN/UL/ULC 8800), which is applicable for horticultural lighting products by that safety organization.

4. Revision to require TM-33-18 reporting

With V2.0, the DLC will now require PPID and SQD information in the TM-33-18 document format. All new and update applications will be required to provide spectral and spatial distribution information in an .xml file per ANSI/IES TM-33-18.

5. Introduction of family grouping

The DLC is seeking feedback on the addition of family grouping to the horticultural lighting program. This option is intended to reduce testing burden as well as reduce the total application fees required by manufacturers to list groups of products, compared to testing and listing all products individually. By identifying the worst-case models within a family group, limited testing may be provided if the worst-case models demonstrate compliance with the Technical Requirements.

6. Introduction of private labeling

The DLC is seeking feedback on the introduction of private labeling to the horticultural lighting program, which is intended to allow re-listing of products under multiple organizations and brands that are exactly the same as the OEM products already listed on the Horticultural QPL. Private label products would not need to go through redundant testing and application fees would be reduced due to a simplified application review process.

[View Draft Horticultural V2.0 Technical Requirements Documents](#)

[View Horticultural Revision Cycle Timelines](#)

Comment Form

The DLC is seeking stakeholder input through the Horticultural Lighting V2.0 Comment Form before finalizing the V2.0 requirements in September 2020. Please submit all comments using the V2.0 Comment Form to comments@designlights.org by **Tuesday, June 16, 2020**.

[Download Comment Form](#)

Informational Webinar

The DLC will host an informational webinar on **Wednesday, May 13, 2020 from 1:00 – 2:00 pm ET** to review the draft of Horticultural Technical Requirements V2.0.

[Register for the webinar](#)

If you have questions about Version 2.0 of the Horticultural Lighting Requirements, please contact horticulture@designlights.org.

Best regards,

The DLC Team