



## Dear DLC Members and Stakeholders:

The DLC is pleased to release the following minor update to its Testing and Reporting Requirements for Horticultural Lighting as Version 1.2, with an effective date of October 21, 2019. [View Horticultural V1.2 Technical Requirements.](#)

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## Testing and Reporting Requirements for LED-based Horticultural Lighting: Version 1.2

The DLC is updating two aspects of its [requirements for horticultural lighting products](#), effective October 21, 2019. These updates support the industry transition from traditional lighting data and metrics to horticultural lighting data and metrics that better represent horticultural lighting performance. The V1.2 requirements do not include specifications for DC-powered fixtures. The DLC will continue to work to improve and expand the range of energy-saving LED-based fixtures available to the horticultural market through future specification revisions.

### 1. Revision to flux maintenance policy

As previously described in past DLC horticultural program revisions and on the DLC website, the DLC will begin requiring flux maintenance data denominated in horticultural-specific units, and will no longer accept lumens or radiometric watts LM-80 or LM-84 reports starting on October 21<sup>st</sup>, 2019. The DLC has been in close contact with LED device manufacturers, and is confident that the industry is prepared to transition away from legacy performance extrapolation data denominated in human-vision terms.

Products which have previously been approved and listed with legacy terms will remain temporarily qualified and listed on the DLC's Horticultural QPL. Those which used non-PPF terms, and did not provide a static conversion factor to PPF terms, will be asked to provide updated PPF-based information in the period from October 2019 to April 2020. Any product that does not provide this updated flux maintenance information will be delisted in April 2020. All QPL listing updates are scheduled to take place at the end of the update period in April 2020. Manufacturers of products that have been provisionally qualified will be contacted with a means to update their product performance to avoid delisting.

### 2. Revision to TM-33 requirements

The DLC originally proposed to require PPID and SQD information in the TM-33 document format starting in October 2019, to replace its current position of requiring this information in a non-standardized graphical format. While use of this document is increasing worldwide, the adoption and production of software tools to work with the TM-33 format are not yet widespread enough for the DLC to require its use at the planned time. Thus, the DLC is delaying its required implementation

by one year, to October 2020, and will maintain its current method of reviewing and publishing data using PPID and SQD images. Given the in-process state of several different proposed methods of producing application-field mapping information for end users, the DLC is participating in relevant standards bodies and encourages all interested stakeholders to also contribute to this important work.

### **3. DC-powered fixtures to remain ineligible in Version 1.2**

The Draft Version 1.2 originally included a proposed technical methodology that would make DC-powered fixtures eligible for DLC qualification. The DLC received feedback during the comment period that the proposed methodology would not provide sufficient accuracy to represent the expected performance of these products. For the V1.2 Horticultural Lighting Requirements, DC-powered fixtures will remain ineligible. The DLC will continue to investigate this category of horticultural lighting products and may expand the specification to include them as part of future specification revisions.

[View Horticultural V1.2 Technical Requirements](#)

[View Horticultural Revision Cycle Timelines](#)

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If you have questions about Version 1.2 of the Horticultural Lighting Requirements, please contact [horticulture@designlights.org](mailto:horticulture@designlights.org).

Best regards,

The DLC Team