



## Dear DLC Members and Stakeholders:

The DLC is pleased to release the following update to the Technical Requirements for Horticultural Lighting as Version 2.1. This update adds additional eligible product types to the Technical Requirements, with a proposed effective date of September 1, 2021.

[View Final Horticultural V2.1 Technical Requirements](#)

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## Technical Requirements for LED-based Horticultural Lighting V2.1

In response to DLC Member and stakeholder input, V2.1 establishes eligibility for three new horticultural lighting product types. To support the qualification of fixtures that enable greater whole facility energy savings by removing excess heat from the grow environment, among other strategies, V2.1 establishes requirements specific to **externally supplied actively cooled** and **DC-powered fixtures**. Additionally, V2.1 adds eligibility and establishes performance criteria for **LED replacements for linear fluorescent and HID lamps**.

While no new requirements are added under V2.1 for existing Hort qualified products, requirements specific to the newly eligible product types are included in V2.1 under the “Special Considerations” section of the policy document (beginning on page 13).

The final technical requirements contain changes made in response to stakeholder comments on Draft 2. Key changes from Draft 2 are noted below:

### 1. Externally Supplied Actively Cooled Horticultural Fixtures

The DLC defines externally supplied circulating liquid cooled horticultural fixtures to be products in which liquid, often water or a water/glycol solution, flows through input and output ports of each fixture in the system, being channeled through a cooling plate or other heat exchanger within the fixture. V2.1 describes how to test and report on these types of products to ensure comparable performance across externally supplied actively cooled fixtures and typical V2.0 listed products.

#### Key changes from Draft 2:

- Revision to reporting of data and corresponding image showing fixture-level input power and PPF as a function of inlet fluid temperature.

### 2. DC-Powered Fixtures

Horticultural lighting fixtures powered by direct current (DC) eligible under V2.1 include modular fixtures, where one AC-to-DC power source supplies power to multiple fixtures, and fixtures that operate on DC power, where one or more AC-to-DC power source may or may

not be sold with the fixture. V2.1 describes how to test and report on these DC-powered fixtures in place of the typical equivalent AC testing and reporting.

**Key changes from Draft 2:**

- Revisions to testing and reporting of range of loading points required for the test power source report.

**3. LED Replacement Lamps**

V2.1 adds eligibility for two types of horticultural lamps: LED replacements for linear fluorescent lamps and LED replacements for mogul-base high intensity discharge (HID) lamps. LED replacement lamps for horticultural applications must meet Horticultural V2 Technical Requirements, except for driver lifetime and warranty, and includes horticulture lamp specific requirements.

**Key changes from Draft 2:**

- The warranty requirement for replacement lamps is updated to three years instead of five years, as proposed in Draft 2.

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## Informational Webinar

The DLC will host an informational webinar on **Wednesday, July 7 at 1pm EDT / 10am PDT** to review Horticultural Technical Requirements V2.1.

[Register for the Webinar](#)

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[View Final Horticultural Technical Requirements V2.1](#)

[View Horticultural Revision Cycle Timelines](#)

If you have questions about Version 2.1 of the Horticultural Lighting Technical Requirements, please contact [horticulture@designlights.org](mailto:horticulture@designlights.org).

Best regards,

The DLC Team