

STANDARD INFORMATION

Standard Number: UL Subject 8800
Standard Name: Horticultural Lighting Equipment
Standard Edition and Issue Date: 2nd Edition dated April 17, 2019
Date of Revision: April 17, 2019
Date of Previous Revision of Standard: May 4, 2017

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **April 17, 2021**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes:

- Revised requirements for IP codes
- Addition of requirements for conformal coatings
- Addition of the abnormal temperature test
- Addition of requirements for markings and installation requirements

Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i>
9	Info	Electrical Construction
9.3	Info	Supply connections
		<i>New clause added;</i>
9.3.3		A horticultural luminaire with provisions for connection to the branch circuit using one of the methods in 9.3.1 (c) through (e), shall comply with the leakage current measurement test of UL 8750 or CSA C22.2 No. 250.13.
13	Info	Environmental Ratings
13.2	Info	Exposure to dust and water (IP Codes)
		Lighting equipment intended for use in an environment where it is exposed to excessive dust and water may, at the manufacturer's request, be additionally evaluated in accordance with the requirements of the Standard for Degrees of Protection Provided by Enclosures (IP Code), IEC 60529, and be marked with an IP Code.
13.2.1		<u>A luminaire intended for use in an environment where it is exposed to excessive dust and water and is marked with an ingress protection code (IP code), shall be evaluated with the applicable tests for ingress of dust, solid objects and moisture of IEC 60598-1. The IP code marking on the horticultural luminaire shall be in format S24 – L2, in accordance with the marking requirements in UL 1598 and CSA C22.2 No. 250.0.</u>
14	Info	Conformal Coatings
		<i>New clause added;</i>
14.1		Conformal coatings serving as a protective covering applied on a printed-wiring board used to increase the dielectric voltage-withstand capability between conductors, between conductors and accessible dead metal parts and/or to protect against environmental conditions shall be evaluated in accordance with the UL 746E or the printed circuit board requirements in Annex F of CSA C22.2 No. 250.0.
		<i>New section added;</i>
18		Abnormal Temperature Test
		This section contains requirements for the abnormal temperature test (see standard for details).



CLAUSE	VERDICT	COMMENT
19	Info	Markings
19.1	Info	General
		<i>New clause added;</i>
19.1.2		A horticultural luminaire with provisions for a proprietary wiring system (harness) shall be marked "PROPRIETARY WIRING SYSTEM [Name, Part Number, Cautionary Marking]" in marking format S16-L2 or within the installation instructions.
20	Info	Installation and Operating Instructions
		Installation and operating instructions shall be provided and shall contain specific information for proper installation, mounting, wiring, use, and servicing the lighting equipment based on its intended use and design. In addition, the following specific information shall be included:
20.1		e) Instructions repeating photobiological safety, cautionary and warning markings if applicable in accordance with Photobiological Safety Assessment Markings, Section 19.4. <u>For horticultural luminaires requiring these markings, the installation and operating instructions shall include the following additional information:</u>
		<u>"These photobiological safety markings are based on testing of the light output characteristic of a single horticultural luminaire. Increased exposure risk to facility personnel may be present depending upon the number of horticultural luminaires and their placement and/or positioning within the plant growth facility."</u>
		<u>"It is the responsibility of the plant growth facility to address these risks at the facility level and to ensure that people entering the plant growth areas while the lights are on, are aware of these risks and that appropriate safeguards are in place."</u>
	Info	PART II – HORTICULTURAL SYSTEMS
		<i>New section added;</i>
21		General Requirements
		This section contains requirements for horticulture systems (see standard for details).
CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/ revised requirements.		