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1

UL 8800

Outline of Investigation for Horticultural Lighting Equipment

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Summary of Topics

This first issue of the Outline of Investigation for Horticultural Lighting Equipment, UL 8800, covers lighting equipment intended for use in a horticultural environment and installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70.

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CONTENTS

INTRODUCTION

1 Scope	5
2 Components	5
3 Units of Measurement	5
4 References	6
5 Glossary	7

CONSTRUCTION

6 General Requirements	7
6.1 General	7
6.2 Horticultural lighting structures	8
6.3 Electrically-operated horticultural lighting equipment	8
7 Mechanical Construction	8
7.1 Horticultural luminaires	8
7.2 Polymeric enclosures, barriers, baffles, and water shields	8
8 Electrical Construction	9
8.1 Horticultural luminaires	9
8.2 Polymeric electrical insulating materials	9
8.3 Power supply connections	9
8.4 Connections between lighting equipment and a remote power source	10
8.5 Flexible cord	10
8.6 Attachment plugs, mating receptacles, and connectors	11
9 LED Horticultural Lighting Equipment	11
9.1 General	11
9.2 Printed wiring boards	11
9.3 LED drivers, LED arrays (modules), LED control modules, LED packages, and LED self-ballasted lamps	11
10 Horticultural Lighting Equipment Having a Fluorescent Light Source	12
10.1 General	12
11 Horticultural Lighting Equipment Having an HID Light Source	12
11.1 General	12
11.2 Metal Halide (MH) lamps	12
11.3 Lampholders	12
11.4 Accessibility of double-ended lamp terminals	12
12 Environmental Ratings	13
12.1 Damp and wet locations	13
12.2 Exposure to dust and water (IP Codes)	13

PROTECTION AGAINST INJURY TO PERSONS

13 Photobiological Safety Assessment	13
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PERFORMANCE

14 General	14
15 Normal Temperature Test	14

MARKING AND INSTRUCTIONS

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16 Marking	14
16.1 General	14
16.2 Markings for horticultural lighting equipment having an HID light source	15
16.3 Markings for horticultural lighting equipment having an LED light source	15
16.4 Photobiological safety assessment markings	16
17 Installation and Operating Instructions	16

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INTRODUCTION

1 Scope

1.1 The requirements contained in this outline of investigation apply to lighting equipment intended for use in a horticultural environment and installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70.

1.2 Equipment covered by this outline of investigation is intended for horticultural lighting purposes and includes: luminaires, lampholders, wire harnesses, plugs and connectors, LED packages, ballasts/LED drivers, lamps, and hardware and structures associated with optimizing light for growing.

1.3 Lighting equipment that provides broadband white light such as light for general illumination, or whose primary purpose when applied to plantings is aesthetic and/or sustaining plant life is not considered horticultural lighting.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this outline of investigation shall comply with the requirements for that component. See Appendix A of the Standard for Luminaires, UL 1598, for a list of standards covering components generally used in the products covered by this outline of investigation.

2.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this outline of investigation, or
- b) Is superseded by a requirement in this outline of investigation.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

3 Units of Measurement

3.1 Refer to the section titled "Units of Measurement" in the Standard for Luminaires, UL 1598.

3.2 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

4 References

4.1 Any undated reference to a code or standard appearing in the requirements of this outline shall be interpreted as referring to the latest edition of that code or standard.

4.2 The following is a list of normative references made throughout this outline of investigation:

UL Standards

UL 73

Standard for Motor-Operated Appliances

UL 496

Standard for Lampholders

UL 498

Standard for Attachment Plugs and Receptacles

UL 746C

Standard for Polymeric Materials – Use in Electrical Equipment Evaluations

UL 817

Standard for Cord Sets and Power-Supply Cords

UL 1598

Standard for Luminaires

UL 1977

Standard for Component Connectors for Use in Data, Signal, Control and Power Applications

UL 1993

Standard for Self-Ballasted Lamps and Lamp Adapters

UL 2755

Outline of Investigation for Modular Data Centers

UL 8750

Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products

IEC (International Electrotechnical Commission)

IEC 60529

Degrees of Protection Provided by Enclosures (IP Code)

IEC 62471

Standard for Photobiological Safety of Lamps and Lamp Systems

IEC/TR 62471-2

Photobiological Safety of Lamps and Lamp Systems – Part 2: Guidance on Manufacturing Requirements Relating to Non-Laser Optical Radiation Safety