



UL 8752

STANDARD FOR SAFETY

Organic Light Emitting Diode (OLED) Panels

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UL Standard for Safety for Organic Light Emitting Diode (OLED) Panels, UL 8752

First Edition, Dated June 13, 2012

Summary of Topics

The following changes in requirements to the Joint UL/ULC Standard for Organic Light Emitting Diode (OLED) Panels, UL 8752/ULC-S8752, are being issued for the United States and Canada:

- 1. Limit the scope of the standard to lighting applications***
- 2. Clarify polymeric materials – Relative Thermal Index requirements for larger OLED panels***
- 3. Allow for more than one power input connector in OLED panels***
- 4. Provide alternate method for secureness of soldered printed wiring board connections***
- 5. Eliminate dual language for electrical input rating***

The new requirements are substantially in accordance with Proposal(s) on this subject dated July 12, 2013.

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Underwriters Laboratories Inc.
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Approved
by
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of Canada



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This ANSI/UL Standard for Safety consists of the First Edition.

The most recent designation of ANSI/UL 8752 as an American National Standard (ANSI) occurred on September 30, 2013. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), an informative Annex, or the Preface.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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CONTENTS

Preface	5
---------------	---

INTRODUCTION

1 Scope	6
2 Components	7
3 Units of Measurement	8
4 Undated References	8
5 Glossary	8

MECHANICAL CONSTRUCTION

6 General	9
7 Mounting	9
8 Glass	9
9 Polymeric Materials	9
10 Adhesives	10
11 Conductor Protection	10

ELECTRICAL CONSTRUCTION

12 General	11
13 Current Carrying Parts	12
14 Splices and Connections	12
15 Segregation from Other Conductors	13
16 Switches and Controls	13
17 Supply Connections	13

PERFORMANCE

18 Input Power	14A
19 Temperature Test	14A
20 Abnormal Input Test	15
21 Component Fault Tests	16
22 Flame Spread and Smoke Developed Test	17
23 Glass Breakage Weight Test	17
24 Static Load Mounting Test	17
25 Conductor Secureness Test	17

MARKING AND INSTRUCTIONS

26 General	18
27 Installation and Operation Instructions	19

TABLES

ANNEX A (NORMATIVE) – Supplemental Requirements for Higher Power OLED Panels

A1 General	21
------------------	----

ANNEX B (NORMATIVE) – Reference Standards

Preface

This is the common UL and ULC Standard for Organic Light Emitting Diode (OLED) Panels. It is the First edition of both CAN/ULC-S8752 and ANSI/UL 8752.

This Joint Standard was prepared by Underwriters Laboratories Inc., ULC Standards, and the Technical Committee on Solid State Lighting (TCSSL). The standard was formally approved by the UL/ULC Technical Committee on Solid State Lighting (TCSSL). The efforts and support of the Technical Committee are gratefully acknowledged.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

Annex A and Annex B, both identified as normative, form a mandatory part of this Standard.

Note: *Although the intended primary application of this Standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.*

Level of Harmonization

This Standard is published as an identical standard between UL and ULC Standards. An identical standard is a standard that is the same in technical content except for conflicts in Codes and Governmental Regulations. Presentation shall be word for word except for editorial changes.

Interpretations

The interpretation by the SDO of an identical or equivalent standard shall be based on the literal text to determine compliance with the standard in accordance with the procedural rules of the SDO. If more than one interpretation of the literal text has been identified, a revision shall be proposed as soon as possible to each of the SDOs to more accurately reflect the intent.

UL Effective Date

A UL effective date is established by Underwriters Laboratories Inc. and is not part of the ANSI approved standard.

INTRODUCTION

1 Scope

1.1 These requirements apply to organic lighting emitting diode (OLED) panels intended for task, ambient, or aesthetic illumination, and for portable or permanent installation in accordance with the following standards, and for connection to isolated (non-utility connected) power sources such as generators, batteries, fuel cells, solar cells, and the like, in accordance with the:

In Canada:

Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1,

In the United States:

National Electrical Code (NEC), ANSI/NFPA 70.

1.1 revised September 30, 2013

1.2 The OLED panels covered by this standard are intended to be installed in dry or damp locations only, in one or more of the following configurations:

- a) Secured directly to the walls or ceiling of a structure,
- b) Integrated into a mechanical frame or structure that is in turn mounted or secured to the walls or ceiling of a structure (for example, a luminaire or sign),
- c) Integrated into a mechanical frame or structure that is portable and able to be relocated without special tools or skills (for example, a portable luminaire).

1.3 The OLED panels covered by this standard are intended to be supplied from an electrical power source operating within the voltage and current limits specified in Electrical Construction – General, Section 12. These voltage limits are understood to represent no risk of electric shock injury, and the current limits sufficient to adequately reduce the risk of fire initiation.

Exception: For OLED panels intended to be supplied by a power source beyond the limits of Section 12, see the Supplemental Requirements for Higher Power OLED Panels, Annex A.

1.4 An OLED panel mounted within the frame structure of a fixed or portable luminaire per 1.2 (b) or (c) need not comply with the requirements in this standard where the risk of fire or injury is fully addressed by the applicable luminaire standard.

1.5 These requirements do not address the power sources used to supply an OLED panel. Mechanically integrated assemblies that include both an OLED panel and a power source shall be evaluated for conformance with the applicable luminaire standard. Some power sources suitable for use with OLED panels are identified in Electrical Construction – General, Section 12.