CAN/ULC-S8752-12-R2018
(Reaffirmed 2018)

STANDARD FOR ORGANIC LIGHT EMITTING DIODE (OLED) PANELS

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ANSI/UL 8752-2013 (R2018)

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CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

Standard for Organic Light Emitting Diode (OLED) Panels, CAN/ULC-S8752-12-R2018

First Edition, Dated 13 June 2012

Summary of Topics

This revision of CAN/ULC-S8752 is being issued to update the title page to reflect the reaffirmation of this First Edition National Standard of Canada. No changes in requirements are involved.

The requirements are substantially in accordance with Proposal(s) on this subject dated February 16, 2018.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD. IN THOSE INSTANCES, THE RELEVANT VERSIONS ARE AVAILABLE FOR PURCHASE.

No Text on This Page

Prepared by:

ULC Standards
CAN/ULC-S8752-12-R2018
First Edition

Underwriters Laboratories Inc.
ANSI/UL 8752
First Edition

Standard for Organic Light Emitting Diode (OLED) Panels

June 13, 2012

(Title Page Reprinted: August 3, 2018)

ANSI/UL 8752-2013 (R2018)

Commitment for Amendments

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This ANSI/UL Standard for Safety consists of the First Edition including revisions through August 3, 2018.

The most recent designation of ANSI/UL 8752 as a Reaffirmed American National Standard (ANS) occurred on August 3, 2018. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

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ULC Preamble

International Classification for Standards (ICS): 29.140.01; 29.140.40; 31.080.10

This Standard has been developed in compliance with the requirements of SCC for accreditation of a Standards Development Organization.

Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patents rights. ULC Standards shall not be held responsible for identifying any or all such patents rights.

This Standard is intended to be used for conformity assessment.

This First Edition National Standard of Canada was based on the First Edition including Amendment 1, and has now been reaffirmed.

This CAN/ULC-S8752 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

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

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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. Annex C is an informative (non-mandatory) part of this Standard and is not part of the ANSI approved 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 standards development organization 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 standards development organization. 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 standards development organizations to more accurately reflect the intent.

A 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.

1.2 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.

1.6 This standard does not include requirements for the evaluation of OLED panels intended for use in:

In Canada:

a) Hazardous locations as specified in the Canadian Electrical Code, CSA C22.1, Part I;

b) General patient care areas or critical patient care areas as defined by Section 24 of the Canadian Electrical Code, CSA C22.1, Part I;

c) Emergency systems as defined by Section 46 of the Canadian Electrical Code, CSA C22.1, Part I; or

d) Air-handling spaces as defined by Rule 12-010 of the Canadian Electrical Code, CSA C22.1, Part I.

In the United States:

a) Hazardous locations as specified in the National Electrical Code (NEC), ANSI/NFPA 70;

b) General patient care areas or critical patient care areas as defined by Article 517 of the National Electrical Code (NEC), ANSI/NFPA 70;

c) Emergency systems as defined by Article 700 of the National Electrical Code (NEC), ANSI/NFPA 70; or

d) Air-handling spaces as defined by Article 300.22(C) of the National Electrical Code (NEC), ANSI/NFPA 70.

1.7 This standard does not include requirements for the assessment of OLED panel compliance with building code seismic requirements.

2 COMPONENTS

2.1 Except as indicated in 2.2, a component of a product covered by this standard shall comply with the requirements for that component.

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 standard, or

b) Is superseded by a requirement in this standard.

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