



**CSA
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CAN/CSA-C22.2 No. 250.13-14
National Standard of Canada

Light emitting diode (LED) equipment for lighting applications



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National Standard of Canada

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Light emitting diode (LED)
equipment for lighting applications

Prepared by



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Preface

This is the second edition of C22.2 No. 250.13, *Light emitting diode (LED) equipment for use in lighting applications*, one of a series of Standards issued by the Canadian Standards Association under Part II of the *Canadian Electrical Code*. It supersedes the previous edition published in 2012.

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For general information on the Standards of the *Canadian Electrical Code, Part II*, see the Preface of CAN/CSA-C22.2 No. 0, *General Requirements — Canadian Electrical Code, Part II*.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Integrated Committee on Lighting Products, under the jurisdiction of the Technical Committee on Consumer and Commercial Products and the Strategic Steering Committee on Requirements for Electrical Safety and has been formally approved by the Technical Committee. This Standard has been approved as a National Standard of Canada by the Standards Council of Canada.

Interpretations: The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA Groups's procedures for interpretation shall be followed to determine the intended safety principle.”

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 - c) *wording of the proposed change; and*
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CAN/CSA-C22.2 No. 250.13-14

Light emitting diode (LED) equipment for lighting applications

1 Scope

1.1

The requirements specified in this Standard cover light emitting diode (LED) equipment that is an integral part of a luminaire or other lighting equipment, and which operates in the visible light spectrum between 400 and 700 nm. These requirements also cover the component parts of LED equipment, including LED controlgear, controllers, arrays, modules, and packages, as defined in this Standard.

1.2

These lighting products are intended for installation on branch circuits of 600 V nominal or less, in accordance with the *Canadian Electrical Code, Part I*, and for connection to isolated (non-utility connected) power sources such as generators, batteries, fuel cells, solar cells, and the like.

1.3

1.3.1

LED equipment is utilized in lighting products that comply with the end-product standards listed in this Clause. The requirements specified in this Standard are intended to supplement those in other end-product standards.

1.3.2

LED luminaires comply with the following end-product standards:

- a) CAN/CSA-C22.2 No. 207;
- b) CSA C22.2 No. 12;
- c) CSA C22.2 No. 89;
- d) CSA C22.2 No. 141;
- e) CSA C22.2 No. 166;
- f) CSA C22.2 No. 9;
- g) CSA C22.2 No. 250.0;
- h) CSA C22.2 No. 256;
- i) CSA C22.2 No. 250.7;
- j) CSA C22.2 No. 1993;
- k) CSA TIL B-31B; and
- l) CSA TIL B-39.

1.3.3

LED controlgear complies with the following end-product standards:

- a) CAN/CSA-C22.2 No. 223; and
- b) CAN/CSA-C22.2 No. 60950-1.