



Retrofit kits for luminaire conversion



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Preface

This is the first edition of CSA C22.2 No. 250.1, *Retrofit kits for luminaire conversion*. This Standard replaces the retrofit kit requirements of CSA TIL B-79A, *Interim Certification Requirements for LED Retrofit Kits and Field Retrofitted Luminaires*, and CSA TIL B-64A, *Requirements for Retrofit Assemblies Employing Fluorescent, Self Ballasted (SBL) and Induction Lamp Retrofit Assemblies and Retrofitted Luminaires Utilizing Those Assemblies*. This Standard is one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*.

The requirements for retrofit kits and retrofitted luminaires of this Standard supplement the requirements of the products covered by CSA C22.2 No. 250.0.

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 developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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 CSA committee interpretation has not already been published, CSA Group’s procedures for interpretation shall be followed to determine the intended safety principle”.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *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.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
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 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.

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 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA C22.2 No. 250.1:16

Retrofit kits for luminaire conversion

1 Scope

1.1

This Standard covers the minimum safety requirements for retrofit kits intended to be installed as an alternate source of illumination in previously installed luminaires that already comply with the requirements of CSA C22.2 No. 250.0.

Note: *The types of retrofit kits covered are listed in Clause [1.2](#).*

1.2

This Standard covers the following retrofit kit categories:

- a) LED (light emitting diode) retrofit kits and tubular LED lamp (TLED) retrofit kits, in accordance with the main body of this Standard;
- b) fluorescent lamp retrofit kits, in accordance with Annex [B](#);
- c) induction lamp retrofit kits, in accordance with Annex [C](#); and
- d) LED retrofit kits for commercial refrigeration equipment, in accordance with Annex [D](#).

1.3

This Standard applies to retrofit kits only for the luminaire types that are covered by the scope of CSA C22.2 No. 250.0.

Notes:

- 1) *Retrofitting of a luminaire could involve relocation, removal, or replacement of wiring, reflectors, lampholders, ballasts, and the power supply of the original luminaire.*
- 2) *Conversion lamps that are intended to directly replace existing lamps without modification of the wiring, lampholders, or controlgear within the luminaire are specified in CSA C22.2 No. 1993.*

1.4

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

1.5

The values given in SI units are the units of record for the purposes of this Standard. Where values are given in parentheses, they are for information and comparison only.