

## **Incandescent lamps**



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# Preface

This is the third edition of CSA C22.2 No. 84, *Incandescent lamps*, one of a series of Standards issued by the Canadian Standards Association under Part II of the *Canadian Electrical Code*. It supersedes the previous editions published in 1995 and 1974.

The following changes are reflected in this edition:

- (a) the language of the Scope has been clarified;
- (b) the wattage tolerance requirements have been revised;
- (c) there are new requirements for lamps with an integral voltage-modification device; and
- (d) the temperature test requirements have been revised.

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

This Standard was prepared by the Subcommittee on C22.2 No. 84, 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.

**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's procedures for interpretation shall be followed to determine the intended safety principle."

July 2005

## Notes:

- (1) Use of the singular does not exclude the plural (and vice versa), where 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 publication 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 publication.
- (4) CSA Standards are subject to periodic review and suggestions for their improvement will be referred to the appropriate committee.
- (5) All enquiries regarding this Standard, including requests for interpretation, should be addressed to Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.  
Requests for interpretation should:
  - (a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;
  - (b) provide an explanation of circumstances surrounding the actual field condition; and
  - (c) be phrased where possible to permit a specific "yes" or "no" answer.

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are published in CSA's periodical Info Update, which is available on the CSA Web site at [www.csa.ca](http://www.csa.ca).

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# C22.2 No. 84-05

## Incandescent lamps

### 1 Scope

#### 1.1

This Standard applies to medium-screwbase incandescent lamps, including double-envelope tungsten halogen types, that have right-hand threads and are intended for general lighting use in luminaires and other lighting equipment designed to be used in accordance with the *Canadian Electrical Code, Part I*.

#### 1.2

This Standard includes requirements for

- (a) general construction details;
- (b) wattage;
- (c) torsion resistance;
- (d) insulation resistance;
- (e) endurance testing of lamps with an integral voltage-modification device;
- (f) marking and marking durability;
- (g) lamp base temperature; and
- (h) lamp profile temperature.

#### 1.3

This Standard applies to medium-screwbase incandescent lamps, including double-envelope tungsten halogen types, with

- (a) a rated wattage up to 300 W;
- (b) a rated voltage between 110 and 130 V; and
- (c) E26/24 single-contact, E26d double-contact, or E26/50x39 skirted bases.

#### 1.4

This Standard does not apply to medium-screwbase incandescent lamps with a nominal voltage rating not in the 110 to 130 V range or designated exclusively for

- (a) industrial establishments;
- (b) offices;
- (c) exhibit space; or
- (d) other specialty applications.

**Note:** Examples of excluded lamps include the following types of lamps: bowl reflector, decorative, dichroic reflector (cool beam), industrial infrared, neck reflector, novelty, painted, photographic, projection, rough service, sign, street lighting, street railway, sun lamp, traffic signal, and X-ray illuminator.

### 2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

#### CSA (Canadian Standards Association)

C22.1-02

*Canadian Electrical Code, Part I*