



Portable luminaires



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Preface

This is the second edition of CSA C22.2 No. 250.4, *Portable luminaires*, one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*. It supersedes the previous editions published in 2014.

This Standard contains specific requirements for portable luminaires and is intended to be used together with the requirements for luminaires contained in CSA C22.2 No. 250.0.

The major changes to this edition include

- a) the addition of Annex [AA](#);
- b) requirements for luminaires powered by rechargeable batteries; and
- c) the removal of requirements for lighting strings.

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 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 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:*
 - 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) *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.

- 5) *This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line:*
- a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA C22.2 No. 250.4:20

Portable luminaires

1 Scope

1.1

This Standard applies to portable luminaires, intended for use in dry, damp, and wet locations, and intended to be used in accordance with the Rules of CSA C22.1, *Canadian Electrical Code, Part I*, in non-hazardous locations, on a nominal 120 V system and 15 or 20 A branch circuits, or on the load side of a Class 2, LED Class 2, or safety extra-low voltage (SELV) circuit.

1.2

This Standard applies to portable, incandescent, fluorescent, HID, LED, and other lighting technology luminaires for illuminative or decorative purposes and combinations of these, such as

- a) amateur movie lights;
- b) aquarium;
- c) cabinet (including under-cabinet);
- d) clamp type;
- e) chain-and hook-supported types (including flexible-cord-, steel-cable- or rope-supported);
- f) colour wheels;
- g) display case type;
- h) drafting type;
- i) electronic (flashing, touch-control) types;
- j) extension handlamps;
- k) extra low voltage portable luminaires, supplied from a remote power source;
- l) fibre-optic types;
- m) flood lights;
- n) floor type;
- o) counterfeit detectors;
- p) hobby type;
- q) hospital type;
- r) illuminated forms or shapes (figurines, fire logs, terrestrial globes, plaques, etc);
- s) kits, portable luminaires;
- t) machine-shop lamps (e.g., illuminated shields for use with electric grinders);
- u) make-up mirrors;
- v) office furnishing luminaires;
- w) picture lights;
- x) planter lights;
- y) paint curing types;
- z) rechargeable hand lamps;
- aa) table type;
- ab) wall (pin-ups); and
- ac) work lamps.

1.3

This Standard does not apply to luminaires covered by other CSA Standards, such as

- a) decorative lighting products;
- b) emergency lighting equipment;
- c) stage and studio luminaires;
- d) electric signs and displays;
- e) radiant heaters and infrared and ultraviolet lamp assemblies for cosmetic or hygienic;
- f) purposes in non-medical applications;
- g) low voltage landscape lighting systems;
- h) submersible lighting systems; and
- i) direct plug-in nightlights.

1.4

For the purpose of this Standard, the term “luminaire” means portable luminaire.

1.5

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.

2 Reference publications

In addition to the reference publications listed in CSA C22.2 No. 250.0, this Standard refers to the following publications and where such references are made, it shall be to the edition listed below, including all amendments published thereto.

CSA Group

C22.2 No. 1-18

Canadian Electrical Code, Part I

CAN/CSA-C22.2 No. 0-10

General requirements — Canadian Electrical Code, Part II

C22.2 No. 0.4-17

Bonding of electrical equipment

C22.2 No. 0.23-15

General requirements for battery-powered appliances