

# Lighting poles



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600-55 Metcalfe Street  
Ottawa, Ontario, K1P 6L5  
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# *National Standard of Canada*

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<b>A. Andronesu</b>	CSA Group, Toronto, Ontario, Canada	<i>Project Manager</i>

# Preface

This is the fourth edition of CSA C22.2 No. 206, *Lighting poles*, part 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 2017, 2013, and 1987.

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

Significant changes to this edition include the following:

- a) Scope — adds fibre-reinforced poles;
- b) Clause [5.1](#) — clarifies which types of fasteners and special tools are permitted;
- c) Clause [7.1](#) — adds reference to the fatigue design of AASHTO LRFD; and
- d) Clause [7.5](#) — adds minimum thickness for aluminum poles.

The purpose of this Standard is to ensure, through the provision of minimum requirements for construction, the mechanical strength aspects, electrical features, and design-load capabilities of lighting poles.

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](mailto: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](https://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](mailto: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. 206:22

## Lighting poles

### 1 Scope

#### 1.1

This Standard applies to free-standing poles of ferrous metal, aluminum, polymeric, concrete, fibre-reinforced structures, and wood, and to their accessories, for use in the support of lighting equipment having ratings of 600 V and less, and intended to be installed in the commercial and industrial nonhazardous locations in accordance with the Rules of the *Canadian Electrical Code, Part I*.

#### 1.2

This Standard applies to poles used for the support of lighting equipment, such as luminaires, electric signs, and traffic lights. The poles may also serve as supports for aerial conductors, PV modules, wind turbines used to supply the lighting equipment, smart city communication, and data transmission devices, and, in the case of concrete or metal poles, provide wireways for conductors entering the poles.

#### 1.3

This Standard applies to the electrical features of poles as well as to the mechanical strength aspects and the ability to support their design loads.

#### 1.4

This Standard does not apply to the erection of poles or the installation of accessories on site.

**Note:** *Lighting poles for residential applications less than 4 m in height may be evaluated to the requirements of CSA C22.2 No. 250.0 for electrical safety only, and be marked NOT EVALUATED FOR STRUCTURAL STRENGTH/N'A PAS ÉTÉ ÉVALUÉ QUANT À LA RÉSISTANCE STRUCTURALE.*

#### 1.5

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

#### 1.6

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.