

Swimming-pool luminaires, submersible luminaires, and accessories



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Preface

This is the third edition of CSA C22.2 No. 89, *Swimming-pool luminaires, submersible luminaires, and accessories*, part of the *Canadian Electrical Code, Part II*. It supersedes the previous editions published in 1976 and 1968.

This Standard also replaces the following Technical Information Letter (TIL), for products covered in this Standard: CSA TIL No. B-44, *Permanently Connected, Cord-Connected and Direct Plug-In Lighting Systems Incorporating Nicheless Luminaire Assemblies that Employ Extra-Low Voltage Incandescent Lamps for Use in Pools*.

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.

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.”

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 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;*

d) *rationale for the change.*

C22.2 No. 89-15

Swimming-pool luminaires, submersible luminaires, and accessories

1 Scope

1.1

This Standard applies to submersible lighting systems and associated components for installation in accordance with the *Canadian Electrical Code, Part I* that are:

- a) permanently connected to branch circuit; or
- b) portable type, cord-connected or direct plug-in type

1.2

This Standard covers submersible lighting systems for connection to a supply circuit of not more than 150 V, intended for swimming pools, spas, hot tubs, fountains, decorative pools, waterfalls, and similar submersible applications.

1.3

This Standard applies to the following associated components:

- a) isolating-type power supply;
- b) double insulated power supply;
- c) one or more luminaire assemblies of the incandescent, fluorescent, CFL, HID, or any LED technology type;
- d) flexible cable and associated connectors intended for use in the secondary circuit;
- e) junction and deck boxes for swimming pool luminaires;
- f) junction boxes for submersible lighting systems; and
- g) forming shells for use with wet-niche luminaires.

1.4

This Standard does not apply to luminaires or junction boxes covered by other CSA standards such as:

- a) Low voltage landscape luminaires covered by CSA C22.2 No. 250.7.
- b) In ground recessed luminaires covered by CSA C22.2 No. 250.0.
- c) Junction or outlet boxes covered by CSA C22.2 No. 18.1 and CSA C22.2 No. 18.2.

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.