



CSA C22.2 No. 141:24
National Standard of Canada



Emergency lighting equipment



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Preface

This is the sixth edition of CSA C22.2 No. 141, *Emergency lighting equipment*, 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 2015, 2010, 2002, 1985, and 1972.

The following are the major changes to this edition:

- a) clarification for battery performance during operating conditions (see Clause [4.3.3](#));
- b) clarification for the operation of equipment at extreme temperatures (see Clauses [4.3.4](#), [7.6.2](#), [7.12.1](#), and [7.12.2](#));
- c) clarification of the type of switch used for the testing of operation of equipment with batteries (see Clause [4.5](#));
- d) revision to the references for maximum permitted dimensions of openings in enclosures (see Clauses [5.2.3](#) and [5.2.5](#));
- e) additional note for the minimum life of LED lamps (see Clause [5.19](#));
- f) revision to the equipment input marking (see Clause [6.1](#));
- g) replacing the annex for energy efficiency with a direct reference to CAN/CSA-C860 (see Clauses [6.14](#) and [7.20](#));
- h) addition of new requirements for marking equipment that does not meet the requirements of ICES-005 (see Clause [6.19](#) and Annex [D](#));
- i) additional clarification for the particular tests required for equipment not provided with batteries and sample requirements for all tests (see Clause [7.1](#));
- j) clarifications and editorial corrections for the conditions for test and preparation of unit equipment (see Clauses [7.2](#) and [7.3](#));
- k) clarifications for conducting the rating (input) test and temperature test (see Clauses [7.4](#) and [7.6](#));
- l) moving the charging means test (see Clause [7.5](#));
- m) addition of requirements for determination of equivalent temperatures during the temperature test (see Clause [7.6.5](#));
- n) addition of a new over-voltage test (see Clause [7.7](#));
- o) clarification and simplification of the leakage current test (see Clause [7.8](#));
- p) addition of an exclusion of equipment that must comply with the dielectric test, dielectric test equipment requirements, and additional requirements for units using voltage-limiting clamping devices (see Clause [7.9](#));
- q) clarification for equipment evaluated for short-term recovery (see Clause [7.10](#));
- r) correction for the test reference for flooded cell batteries (see Clause [7.11](#));
- s) clarification for equipment evaluated for minimum ambient temperature (see Clause [7.12](#));
- t) clarification for equipment evaluated for minimum extreme voltage (see Clause [7.13](#));
- u) separating central power system testing from the minimum extreme voltage test (see Clause [7.24](#));
- v) revision to the notes of Figure [B.1](#) for the direction of a directional indicator;
- w) addition of new requirements to address lamp conditioning and the maximum test voltage for a remotely operated luminaire during the light output test (see Annex [C](#));
- x) clarification for diffuser flammability requirements (see Annex [E](#)); and
- y) revision to reference the maximum and minimum voltage levels in the normal and extreme operating range from CSA C235 (see Clauses [4.3.3.1](#), [4.3.3.2](#), [5.2.1.6](#), [7.4.3](#), [7.7](#), [7.13.1](#), and [7.14.2](#)).

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.