

# Flashlights and lanterns



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Standard for Safety for Flashlights and Lanterns

First Edition, Dated May 13, 2022

***Summary of Topics***

***This is the first edition of the Standard for Flashlights and Lanterns, dated May 13, 2022.***



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CSA C22.2 No. 250.5:22  
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Underwriters Laboratories Inc.  
UL 1576  
Second Edition

## Flashlights and Lanterns

May 13, 2022



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## ANNEX A (CAN) FRENCH TRANSLATIONS

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## Preface

This is the harmonized CSA Group and UL Standard for Flashlights and Lanterns. It is the first edition of CSA C22.2 No. 250.5 and the second edition of UL 1576. This edition of UL 1576 supersedes the previous edition published in 2018.

This harmonized standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL). The effort and support of the Technical Harmonization Group on Flashlights and Lanterns are gratefully acknowledged.

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

This Standard was reviewed by the CSA Integrated Committee on Lighting Products (ICLP), under the jurisdiction of the CSA Technical Committee on Consumer and Commercial Products and the CSA 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.

## Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

Note: 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.

## Level of Harmonization

This Standard is published as an identical standard for CSA Group and UL.

An identical standard is a standard that is exactly the same in technical content except for national differences resulting from conflicts in codes and governmental regulations. Presentation is word for word except for editorial changes.

## Reasons for differences from IEC

This standard provides requirements for flashlights and lanterns for use in accordance with the electrical installation codes of Canada and the United States. This standard does not employ any IEC standard for base requirements.

## Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

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## 1 Scope

1.1 This standard applies to flashlights and lanterns powered by secondary (rechargeable) batteries and general purpose primary (non-rechargeable) batteries with a maximum voltage of 75 V d.c. The terms flashlights and lanterns as used within this standard refer to products that are battery-powered.

1.2 Flashlights and lanterns that are battery-powered and also powered from a line-voltage supply are also covered within this standard, in accordance with CSA C22.1, Canadian Electrical Code (CE Code), Part I and the National Electrical Code (NEC), ANSI/NFPA 70, on circuits having a nominal voltage not exceeding 250 V.

1.3 These requirements also apply to automatic flashlights and lanterns which are normally connected to a line voltage supply and, upon loss of the line voltage supply, will turn on the lamp.

1.4 This standard is not used in conjunction with CSA C22.2 No. 250.0.

1.5 These requirements do not apply to:

- a) Stand-alone battery chargers;
- b) Cord and plug connected work lights and hand lights without batteries that are within the scope of UL 153 and CSA C22.2 No. 250.4;
- c) Cord and plug connected portable luminaires other than work lights and hand lights, with or without batteries, that are within the scope of UL 153 and CSA C22.2 No. 250.4;
- d) Aquarium lighting that is within the scope of UL 1018 and CSA C22.2 No. 250.4;
- e) Emergency lighting that is within the scope of UL 924 and CSA C22.2 No. 141;
- f) Products with ultraviolet (UV) radiation sources greater than "Exempt Group" as specified in IEC 62471 and CSA C22.2 No. 62471; and
- g) Products intended for hazardous locations.

1.6 This standard alone is not intended to apply to permanently installed lighting that is capable of being battery powered, since it will not be sufficient to ensure that all hazards are considered for these products.

1.7 Most requirements for battery operation and charging are incorporated by reference to CSA C22.2 No. 0.23 and UL 2595 and are subject to the limitations of voltage in that standard.

Note: Products operating at voltages in excess of those specified in CSA C22.2 No. 0.23 and UL 2595 may require additional considerations.

1.8 Requirements for all battery-operated flashlights and lanterns are specified in Part I. Additional requirements for battery operated flashlights and lanterns that may also be connected to line-voltage supply for any purpose are specified in Part II.

1.9 The terms flashlights and lanterns are considered to be interchangeable and can be referred to as products within this Standard.

## 2 Reference publications

2.1 For undated references to Standards, such reference shall be considered to refer to the latest edition and all revisions to that edition up to the time when this Standard was approved. For dated references to