



Understanding UL 1598, the Standard for Luminaires, fifth edition



Introduction to UL 1598, the Standard for Luminaires, fifth edition

The scope of the UL 1598 Standard applies to luminaires for use in non-hazardous locations and are intended for installation on branch circuits of 600 V nominal or less between conductors in accordance with the Canadian Electrical Code, Part I (CEC), CSA C22.1, with the U.S. National Electrical Code® (NEC), ANSI/NFPA 70, and with the Mexican National Electrical Code, NOM-001-SEDE.

The first edition of UL 1598, the Standard for Luminaires, combined standards for various types of fixed luminaires and harmonized existing UL Standards and Canadian standards. Revisions have since been made to encompass new materials and designs while maintaining the highest levels of safety and compliance.

The fifth edition was published by UL Standards & Engagement on March 26, 2021, with revisions on June 18, 2021, and an effective date of Sept. 20, 2021. The fourth edition was then withdrawn and only the fifth edition is used for certification.

UL Solutions offers safety testing and certification services and can help you better understand your product compliance needs.

Summary of revised requirements

This summary for luminaires is derived from Standard Development Organization (SDO) bulletins or other publicly available documentation. Bulletins are available at shopulstandards.com. Select UL Standards and search for the Standard Number; bulletins are on the second tab and may be downloaded at no charge.

The new edition of ANSI/UL 1598 includes the following clarifications, revisions and requirement changes:

- Addition of testing and safety requirements for permanently mounted interconnected luminaires not using standard plug connection to branch-circuit voltage.
- Added requirements for luminaires having a light-emitting plasma light source.
- Added information addressing LED luminaires with Edison screw lampholders.
- Added supplementary requirements for LED Luminaires using Class P LED Drivers.
- Definition of scope for luminaires suitable for use in clothes closet storage spaces.
- Clarification of risk of electric shock during relamping for HID luminaires with double-ended lamps.
- Revisions to Type IC recessed luminaires intended for installation in contact with low density and medium density polyurethane foam thermal insulation.

UL category code numbers (CCNs) impacted: IETR, IEUR, IEUT, IEUZ, IEVV, IEWR, IEXT, IEXZ, IEYV, IEZR, IEZX, IFAH, IFAM, IFAO, IFAW, IFDT, IFFX, IFGW, IGSA, IGZR, IHHU and IHPX

Next steps

Our lighting customers have access to our technical experts, who engage with you from the beginning to enable you to clear potential roadblocks and improve speed to market. Contact us with questions about the fifth edition of UL 1598 or to discuss your existing product lines and upcoming product development with a dedicated lighting engineer.

UL Standards library

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