

Standard Information

Standard Number: UL 924

Standard Name: Emergency Lighting and Power Equipment

Standard Edition and Issue Date: 10th Edition Dated May 9, 2016

Date of Revision: March 8, 2017

Date of Previous Revision of Standard: 10th Edition Dated May 9, 2016

Effective Date of New/Revised Requirements

Effective Date: **March 26, 2018**

Impact, Overview, and Action Required

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes:

- Addition of requirements for directly controlled luminaires
- Battery standard references and compliance
- Adjustment of the emergency luminaire and battery pack maximum mounting height identification

Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.

Description of New/Revised Technical Requirements

Clause	Verdict	Comment
--	--	Addition of requirements for directly controlled luminaires
73.1.45		A directly controlled luminaire whose emergency operation responds to a control signal input more specific than zero (no input) or non-zero (any input) shall identify the control signal generating device(s) with which it has been found suitable. This shall be accomplished with a marking, such as "For use only with _____" (where the blank is to include the manufacturer and model number(s) of the qualified equipment) or "See www.xxx.com for compatible control equipment". The marking shall be permanent and visible after installation, per 73.1.2 and 73.1.3.
SUPPLEMENT SG	Info	Minimum light output for emergency lighting equipment
SG2.3.1		A luminaire whose light output under emergency power conditions can be set at less than full illumination shall be tested at the lowest available output setting or as identified in the installation and operating instructions.
SG3.3		The installation instructions for a luminaire whose light output under emergency operating conditions can be set at less than full illumination shall include guidance for setting the appropriate output level and the need to perform illumination measurements after installation to validate compliance with the applicable code requirements.
--	--	Battery standard references and compliance
22.2		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i> A battery shall be of the rechargeable (secondary) type and shall <u>include a protective housing (casing) that allows it to be handled without risk of damage to the cells contained within.</u> comply with the Short Circuit, Abnormal Charging, and Forced Discharge Tests of the Standard for Household and Commercial Batteries, UL 2054.
22.2.1		A rechargeable battery shall comply with the Standard for Household and Commercial Batteries, UL 2054. Cells within the battery that are constructed of lithium metal, lithium alloy or lithium ion shall additionally comply with the Standard for Lithium Batteries, UL 1642.

Clause	Verdict	Comment
22.2.2		The location of a battery within the equipment housing, and the presence of current- or temperature-limiting components (such as resistors, fuses, or PTC thermistors) in the battery charging or discharge circuitry of the equipment, can be considered when determining compliance with the battery standards noted in 22.2.1.
--	--	Adjustment of the emergency luminaire and battery pack maximum mounting height identification
SUPPLEMENT SA	Info	Field installed luminaire emergency battery packs
SA4.6		<p><i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i></p> <p>An emergency battery pack tested in accordance with SG2.2 shall be marked to indicate the maximum mounting height of the connected luminaire, in accordance with SG3.2. <u>If the battery pack is suitable for use with more than one luminaire or luminaire configuration whose maximum mounting height differs, the pack shall be marked to refer to the installation instructions where the maximum mounting height for each configuration shall be noted, as indicated in SG3.2.</u></p>
SG3.2		<p><i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i></p> <p>The installation instructions for a luminaire tested at a mounting height of 7.17 feet (2.2 m) or greater per SG2.2, shall specify the maximum mounting height based on the height of the lowest portion of the luminaire during the test of SG2.2 and the following <u>calculation: below. For luminaires eligible to use different lamps, optical elements, or power sources (i.e., emergency battery packs), the instructions are permitted to include a table or similar means to correlate the various available configurations with the applicable maximum mounting height. This information is permitted to be on a manufacturer-controlled website when the website address is included in the installation instructions, with text such as "For mounting height information for different luminaire configurations, see abc.com/lamps". The manufacturer shall maintain this website without restrictions (such as password or registration requirements).</u></p> <p><i>Maximum mounting height = Ht (fct)1/2</i></p>
		CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.