

## Standard Information

**Standard Number:** UL 153

**Standard Name:** Portable Electric Luminaires

**Standard Edition and Issue Date:** 13<sup>th</sup> Edition Dated March 3, 2014

**Date of Revision:** January 20, 2017

**Date of Previous Revision of Standard:** 13<sup>th</sup> Edition Revised December 15, 2015

## Effective Date of New/Revised Requirements

**Effective Date:** **May 21, 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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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:

- Add requirements for USB and POE Portable Luminaires
- Revised requirement for portable luminaires intended for use without a shade
- Add requirements for lampholders for use with instant start ballasts
- Add requirements for overcurrent protection
- Add requirements for button and coin batteries
- Add requirements for instant-start ballast and lampholder compatibility
- Add requirements for portable luminaires marked "Suitable for Damp Locations"
- Revised requirement for tungsten halogen overlamping test method
- Revised requirement for cord length, markings, and installation instructions for portable cabinet lights

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
--	--	<b>Add requirements for USB and POE Portable Luminaires</b>
1.2.1	Info	These requirements also cover portable luminaires intended to receive power through a USB connection, or power over ethernet (POE) using category 5 (CAT5) or similar cables and connectors.
--	--	<b>Revised requirement for portable luminaires intended for use without a shade</b>
16.1		<p>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined-out</del> below.</p> <p>A portable luminaire shall be shipped with a shade unless:</p> <ul style="list-style-type: none"> <li>a) The shade functions only as a decorative part <u>and instructions are provided in accordance with 219.1.1;</u> <del>and</del></li> <li>b) <u>The design is not intended for use with a shade and</u> instructions are provided in accordance with <del>219.1.</del> <u>219.1.2;</u> <del>or</del></li> <li>c) <u>The design is not intended for and has no means to readily attach a shade.</u></li> </ul>
219.1.1		When a portable luminaire is not provided with a shade in accordance with 16.1(a), it shall be marked in Form C with instructions for providing a shade usable for the marked maximum wattage and lamp type of the incandescent type unit that was temperature tested or in the lamp-to-shade dimensions specified in Temperature Test-Exempt Units, Section 49.
219.1.2		<p><i>New clause added;</i></p> <p>When a portable luminaire is not provided with a shade in accordance with 16.1(b), it shall be marked in Form C with instructions stating that no shade is to be attached.</p>
--	--	<b>Add requirements for lampholders for use with instant start ballasts</b>
42.3		<p><i>New section added;</i></p> <p><b>Fluorescent lampholders</b></p>

Clause	Verdict	Comment
42.3.1		A portable luminaire with instant-start ballast(s) and incorporating bi-pin lampholders shall:  a) Be constructed with a ballast(s) identified as Type CC, or  b) Be constructed with lampholders intended for use with instant-start electronic ballasts in accordance with Components, Section 4. Lampholders marked with a circle "I" comply with these requirements.
--	--	<b>Add requirements for overcurrent protection</b>
46A		<i>New section added;</i>  <b>Overcurrent Protection</b>
46A.1		Overcurrent protection, where required, shall either be a circuit breaker, a fuse, or an electronic circuit determined to be reliable when evaluated in accordance with the Standard for Automatic Electrical Controls – Part 1: General Requirements, UL 60730-1, including Requirements for Electronic Controls, Annex H.
46A.2		A fuseholder shall be of a type that prevents insertion of a fuse larger than that required for compliance with this standard.
--	--	<b>Add requirements for button and coin batteries</b>
47.4.1		<i>New section added;</i>  A portable luminaire that incorporates a button or coin cell lithium batteries shall comply with the accessibility requirements of the Standard for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies, UL 4200A.
--	--	<b>Add requirements for instant-start ballast and lampholder compatibility</b>
61.1.2		<i>New clause added;</i>  A portable luminaire with instant-start ballast(s) and bi-pin lampholders shall use only:  a) Ballast(s) marked as Type CC and that comply with Supplement SD of the Standard for Fluorescent-Lamp Ballasts, UL 935, or  b) Lampholders marked with a circle "I" and that comply with Supplement SD of the Standard for Lampholders, UL 496.
--	--	<b>Add requirements for portable luminaires marked "Suitable for Damp Locations"</b>
--	--	<i>New sections added;</i>  DAMP LOCATION USE – SUPPLEMENTARY
129A		<b>General</b>
129A.1		The requirements in Sections 129A – 129D apply to portable luminaires marked "Suitable for damp locations."

Clause	Verdict	Comment
129A.2		These requirements are supplementary to other applicable requirements in this standard.
<b>129B</b>		<b>Construction</b>
129B.1		The portable luminaire shall comply with the requirements in Corrosion Protection, Section 131.3, as applicable to wet location products.
129B.2		The screw shell in a screw shell-type lampholder shall not be constructed of unplated aluminum.
129B.3		Nonabsorptive electrical insulation shall be used in the construction of electrical components where it is relied upon to provide electrical spacings or sole support of live electrical parts or to provide electrical insulation. Untreated fiber and similar material shall not be used; while treated cellulosic fiber, phenolic, urea, porcelain, and similar material, are examples of materials that meet the intent of the requirement.
<b>129C</b>		<b>Tests</b>
		Portable luminaires intended for damp locations shall be: <ul style="list-style-type: none"> <li>a) Subjected to the Resistance to Moisture Test, Section 161, and</li> <li>b) If provided with a polymeric enclosure, comply with the Resistance to Impact test of the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C, using a preconditioning temperature of 0 ±2°C (32 ± 3.6°F).</li> </ul> <p><i>Exception: Portable luminaires supplied by a remote Class 2 power unit circuit are not subject to these tests.</i></p>
<b>129D</b>		<b>Markings</b>
129D.1		A damp location type unit shall comply with the markings specified in Damp Location Use, Section 214A. It shall not be provided with any information such as markings, instructions, or illustrations that implies or depicts wet location use.
214.3		<i>Additions to existing requirements are <u>underlined</u> below.</i> A work light that does not comply with the wet location <u>or damp location</u> use requirements shall be marked in Form A-3 “Dry Location Use.”
214A		<i>New section added;</i> <b>Damp Location Use</b>
214A.1		A portable luminaire that complies with Sections 129A – 129D is eligible to be marked in Form A-1 “Suitable for Damp Locations.”
216.3	Info	<i>Additions to existing requirements are <u>underlined</u> below.</i> A portable hand light shall be marked “CAUTION – Risk of Electric Shock – Use In Dry Locations Only;” or equivalent.  <i>Exception: Portable hand lamps complying with the wet location requirements of Sections 130 – 135, <u>or the damp location requirements of Sections 129A – 129D.</u></i>

## Standards Update Notice (SUN)

Issued: June 6, 2017

Clause	Verdict	Comment
--	--	<b>Revised requirement for tungsten halogen overlamping test method</b>
165.7.1		<p><i>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined out</del> below.</i></p> <p>A portable luminaire is to be operated in a position of normal use with <del>a lamp rated 500 watts or</del> the maximum wattage lamp <u>of the same type specified in the lamp replacement marking</u> that physically fits into the unit and <u>is generally available through retail channels</u>. However, when the lamp is energized through a transformer, the test is to be conducted with the highest wattage lamp that does not result in transformer burnout in 7 hours, or does not result in a protective device functioning. <del>The lamp type shall be of the same type specified in the lamp replacement marking.</del> For example, a portable luminaire intended for use with a medium base Type PAR38 lamp shall be tested with a Type PAR 38 lamp. <del>Other commonly available similar lamp types (i.e. a smaller par lamp) shall also be used for this test.</del></p>
--	--	<b>Revised requirement for cord length, markings, and installation instructions for portable cabinet lights</b>
223.2.3		<p><i>Additions to existing requirements are <u>underlined</u> below.</i></p> <p>When the temperature on the external surface of the closed top portable cabinet light during the normal temperature test exceeds 90°C (194°F) but not higher than 150°C (302°F), as permitted by the Exception to 146.3.1(c), the unit shall be marked in Form C "CAUTION: Risk Of Fire. Install only in closed top cabinets. Not intended for blind recessed installation. <u>Maintain a minimum 1/2 inch (12.7 mm) air gap between the top of the light and the cabinet surface above</u>" or equivalent.</p>
		<b>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.</b>