

STANDARD INFORMATION

Standard: UL 153

Standard ID:

Portable Electric Luminaires [UL 153:2014 Ed.13+R:01Jun2021]

Previous Standard ID:

Portable Electric Luminaires [UL 153:2014 Ed.13+R:24Jul2020]

Portable Electric Luminaires [UL 153:2014 Ed.13+R:27Jul2018]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 1, 2023**

IMPACT, OVERVIEW, AND ACTION REQUIRED

All reports are required to be certified to the June 1, 2021 revision prior to the effective date.

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Clients in General Coverage Program: These new requirements will be updated in your Listing reports and will be included in the next training provided to maintain your General Coverage Listing. This notice is to give you advance notice of the changes that will be occurring.

Overview of Changes:

July 24, 2020

- Low voltage portable luminaire power source and marking options
- Interconnected Units – supply connections, overcurrent protection, markings, and instructions
- Hand lights – lamp guards and power supply cords

June 1, 2021

- Lamp replacement marking for LED portable luminaires
- Lamp replacement marking for multiple identical lamps

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

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>		
The following changes reflect the July 24, 2020 revision:		
1	Info	Scope These requirements do not cover portable luminaires within the scope of the following standards:
1.4		<u>Standard for Temporary Lighting Strings, UL 1088</u> <u>Standard for Flashlights, UL 1576</u> <u>Standard for Rope Lights, UL 2388</u> <u>Standard for Horticultural Luminaire Systems, UL 8800</u>
9	Info	Enclosures A live part operating above Class 2 circuit limits shall be <u>enclosed in a material with fire containment capability, such as metal, glass, ceramic, porcelain, or a polymeric material that complies with Section 12</u> , during normal maintenance and use.
9.5		<u>Exception No. 7: Wood and other organics are permitted for enclosing combustible parts that are insulated with material rated V2 or better.</u>
138	Info	Construction – Electrical
138.5	Info	Power-supply cords <u>A portable hand light with a medium base lampholder or a receptacle shall have a Type SJT or heavier flexible cord. Other hand lights are permitted to employ Type SVT, SVTO, SVTOO, SVO, or SVOO flexible cords when marked in accordance with 216.8. Rubber jacketed flexible cords, which are not oil resistant, shall not be used.</u>
155	Info	Drop Test
155.1	Info	General The Drop Test described in 155.2 is conducted on freestanding units not evaluated for Stability per 153.1, <u>and on wall mounted units with unreliable mounting means, per 71.2.4.</u> Compliance criteria is described in 155.3.
155.2	Info	Test method One sample of a shelf mounted unit shall be dropped 3 feet (91.4 cm) onto a tissue paper covered nominal 1/2 inch (12.7 mm) thick trade size, knot-free softwood including plywood sheet supported by a concrete floor. The tissue paper is to be untreated white paper, nominally 0.001 inches (0.025 mm) thick, commonly used for gift wrapping. The unit shall be energized for this test. <u>If a detachable supply connector becomes detached when the unit is dropped, it is to be re-attached.</u>



CLAUSE	VERDICT	COMMENT
155.3	Info	Test results
		There shall be no:
155.3.1		a) Emission of flame or molten metal; b) Combustion of unit or test surface; c) Exposure of parts involving a risk of electric shock; <u>d) Exposed edges or sharp parts likely to cause injury (see 9.1);</u> <u>e) Visible damage to any batteries; or</u> f) Dielectric breakdown when subjected to the Dielectric Voltage-Withstand Test, Section 159.
197		Battery Tests
197.2		Battery and charging circuit abnormal tests
		The tests of 197.2.2 – 197.2.3 shall not result in any of the following:
197.2.1		a) Chemical leaks caused by cracking, rupturing or bursting of the battery jacket; b) Spillage of liquid from any pressure relief device in the battery; c) Explosion of the battery; or d) Emission of flame or expulsion of molten material outside of the luminaire enclosure. <u>e) For lithium batteries or cells, the measured charging voltage shall not exceed the battery's nominal rating and the current shall not exceed three times the manufacturer's recommendation.</u>
	Info	MARKINGS
198	Info	General
198.9	Info	Interconnected units
		A 120 Vac interconnected unit shall be marked to identify the maximum permitted connected load in Form A-1, adjacent to the load receptacle, <u>as calculated per Section 26. The marking is permitted to be either (a) or (b) below:</u>
198.9.2		<u>a) "Max 'X' model 'Y' units", where the 'X' identifies the maximum permitted number of identical units from the same manufacturer, and 'Y' identifies the model number, or</u> <u>b) "Max _____ amps" or "Max _____ watts", where the blank identifies the maximum permitted electrical load.</u>
198.9.5		An interconnected unit that is intended to be supplied by the secondary circuit of a power supply, LED driver, ballast or transformer in an adjacent unit, per 33.4, or by a fused unit per 33.3, shall be marked in Form B-5 <u>in accordance with (a) below.</u> <u>The unit that contains the power supply (or fusing) shall be marked in Form B-5 in accordance with (b) or (c) below:</u>



CLAUSE	VERDICT	COMMENT
		<p>a) “Only for use with model _____ manufactured by _____” where the blanks identify the model number and manufacturer of the intended supply source unit.</p> <p>b) “Only for use with max _____ model _____ manufactured by _____” where the blanks identify the maximum number, model, and manufacturer of permitted connected units.</p> <p>c) “Only for use with model _____ manufactured by _____, max _____ amps total connected load”. The word “watts” is a permitted alternative to the word “amps”.</p>
	Info	INSTRUCTIONS
218	Info	General
218.4	Info	Interconnected units
218.4.2		The instructions for a unit marked per 198.9.5 shall identify the model(s) and manufacturer(s) of permitted interconnected units, and either the maximum number of such units or the maximum total amperage or watts of these units.
221	Info	Surface Mounted Units
221.1	Info	General
		<p>A portable luminaire intended for mounting to a bed headboard shall be provided with the following installation instructions:</p> <p>a) Intended application and mounting.</p> <p>b) An opening for the attachment plug and supply cord <u>is to be made in a location that will not allow the cord to be crushed if the headboard is pushed against the wall. If spacers or similar means are needed to prevent cord crushing, instructions for acquiring and installing such spacers on the headboard shall be provided.</u></p> <p>c) If the headboard is constructed of materials with sharp edges that could damage the cord such as metal or glass, the opening should have smooth round holes, or a plastic bushing shall be inserted to protect the cord.</p> <p>d) The National Electrical Code, ANSI/NFPA 70, does not permit cords to be concealed where damage to the insulation may go unnoticed. To prevent fire danger, do not run cord <u>where it will be pinched or damaged</u>, or may be inaccessible for examination. Cords should be visually examined periodically and immediately replaced when any damage is noted.</p> <p>e) Use only insulated staples or plastic ties to secure cords.</p>
		The following changes reflect the June 1, 2021 revision:
13	Info	Decorative Parts
13.2		<p>A decorative part is able to be constructed of any material when the failure of the part does not interfere with the performance of the portable luminaire.</p> <p><u>Hygroscopic materials are permitted only for portable luminaires supplied by a non-integral class 2 power supply.</u></p>



CLAUSE	VERDICT	COMMENT
203	Info	Fluorescent Units
203.1	Info	Lamp replacement
		<i>New clause added;</i>
203.1.4		A portable luminaire intended for use with two or more fluorescent lamps, all of which are of the same wattage, is able to be marked at a single location to indicate either the maximum-wattage lamp to be used or to indicate both the number of lamps and the maximum-wattage lamp. For a unit having two or more lamps that are not all of the same wattage, the wattage of each lamp shall be individually marked on or adjacent to each lampholder.
204	Info	Light Emitting Diode (LED) Units
		<i>New clause added;</i>
204.3		An LED type unit with a replaceable self-ballasted low voltage bi-pin LED lamp, per , shall be marked in Form A-3: “CAUTION” and “(TO REDUCE THE) RISK OF FIRE – USE MAX(IMUM) ____ W (ATT) SELF-BALLASTED LED LAMP.” The blank shall be the type and wattage tested.
		<i>New clause added;</i>
203.4		A portable luminaire intended for use with two or more LED lamps, all of which are of the same wattage, is able to be marked at a single location to indicate either the maximum-wattage lamp to be used or to indicate both the number of lamps and the maximum-wattage lamp. For a unit having two or more lamps that are not all of the same wattage, the wattage of each lamp shall be individually marked on or adjacent to each lampholder.