

UL 298

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Portable Electric Hand Lamps

Underwriters Laboratories Inc. (UL)
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UL Standard for Safety
for
Portable Electric Hand Lamps, UL 298

Fourth Edition, Dated November 25, 1996

Revisions: This Standard contains revisions through and including September 16, 1998. UL is in the process of converting its Standards for Safety to the Standard Generalized Markup Language (SGML). SGML – an international standard (ISO 8879-1986) – is a descriptive markup language that describes a document's structure and purpose, rather than its physical appearance on the page. Significant benefits that will result from UL's use of SGML are increased productivity, reduced turnaround times, and data and information consistency, reusability, shareability, and portability. The changes noted in these revised pages are needed to modify the format and layout of this Standard to allow it to be converted to SGML. These editorial changes are now in effect.

A change is indicated by a note following the affected item. The note is preceded and followed by an asterisk.

The revisions dated September 16, 1998 include a reprinted title page (page 1) for this Standard.

As indicated on the title page (page 1), this UL Standard for Safety has been adopted by the Department of Defense.

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The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Listing, Recognition and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

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Page	Date
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2	September 16, 1998
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1

UL 298

Standard for

Portable Electric Hand Lamps

Prior to the first edition, the requirements for the products covered by this standard were included in the Standard for Cord Sets and Power-Supply Cords, UL 817.

First Edition – October, 1975

Second Edition – November, 1980

Third Edition – November, 1991

Fourth Edition

November 25, 1996

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

The Department of Defense (DoD) has adopted UL 298 on April 23, 1984. The publication of revised pages or a new edition of this standard will not invalidate the DoD adoption.

Revisions of this standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements.

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CONTENTS

FOREWORD

INTRODUCTION

1 Scope	5
2 Glossary	5
3 Components	6
4 Units of Measurement	6
5 References	6

CONSTRUCTION

6 General	6
7 Spacings	7
8 Enclosure and Other Insulating Materials	7
9 Hand Lamp Fittings	8
10 Lampholder	10A
11 Lamp Guard	11
12 Switches	11
13 Power-Supply Cord	12
14 Strain Relief	12
15 Terminal Identification and Wiring	13
16 Grounding	13
17 Protection Against Corrosion	13
18 Protection Against Personal Injury	13

PERFORMANCE

GENERAL

19 Conductor Secureness	14
20 Strain Relief	14
21 Dielectric Voltage-Withstand – Conductors	14
22 Crushing	14
23 Accelerated Aging	15
24 Extended Use Test	16
25 Insulation Resistance	16
26 Normal Temperature Test	17
27 Dielectric Voltage-Withstand	18
28 Abnormal Operation	18
29 Drop Test	20
30 Grounding Path Resistance	21

RECEPTACLE OUTLETS

31 General	21
32 Retention of Attachment Plugs	21
33 Overload	21
34 Temperature	22
35 Resistance to Arcing	22

LAMPHOLDERS

36 General	22
37 Security of Screw Shell	23

MANUFACTURING AND PRODUCTION TESTS

38 Dielectric Voltage-Withstand	23
---------------------------------------	----

RATING

39 General	24
------------------	----

MARKING

40 General	24
------------------	----

APPENDIX A

Standards for Components	A1
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FOREWORD

A. This Standard contains basic requirements for products covered by Underwriters Laboratories Inc. (UL) under its Follow-Up Service for this category within the limitations given below and in the Scope section of this Standard. These requirements are based upon sound engineering principles, research, records of tests and field experience, and an appreciation of the problems of manufacture, installation, and use derived from consultation with and information obtained from manufacturers, users, inspection authorities, and others having specialized experience. They are subject to revision as further experience and investigation may show is necessary or desirable.

B. The observance of the requirements of this Standard by a manufacturer is one of the conditions of the continued coverage of the manufacturer's product.

C. A product which complies with the text of this Standard will not necessarily be judged to comply with the Standard if, when examined and tested, it is found to have other features which impair the level of safety contemplated by these requirements.

D. A product employing materials or having forms of construction differing from those detailed in the requirements of this Standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be judged to comply with the Standard.

E. UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of UL represent its professional judgment given with due consideration to the necessary limitations of practical operation and state of the art at the time the Standard is processed. UL shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of or reliance upon this Standard.

F. Many tests required by the Standards of UL are inherently hazardous and adequate safeguards for personnel and property shall be employed in conducting such tests.

INTRODUCTION

1 Scope

1.1 These requirements cover portable electric hand lamps rated 125 V, 300 W or less for use in accordance with the National Electrical Code.

1.2 These requirements cover incandescent Edison-base portable electric hand lamps of the admedium-, medium-, intermediate- and candelabra-base sizes.

1.3 These requirements do not cover portable hand lamps intended for outdoor use, or portable hand lamps for use in hazardous locations or above hazardous locations as defined in the National Electrical Code.

1.4 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this Standard, and that involves a risk of fire, electric shock, or injury to persons shall be evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the acceptable level of safety as originally anticipated by the intent of this Standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this Standard cannot be judged to comply with this Standard. Where considered appropriate, revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this Standard.

2 Glossary

2.1 For the purposes of this Standard, the following definitions apply.

2.2 **HAND LAMP FITTING** – A device including a lampholder assembly, a lamp guard, with or without a hook for hanging, a handle, and provisions for assembly on a power-supply cord.

2.3 **HANDLE** – A part of insulating material to be grasped by hand in order to direct the light.

2.4 **HOOK FOR HANGING** – A projection attached to, or formed as a part of, a hand lamp fitting (the lamp guard or handle) to be used for hanging.

2.5 **LAMP GUARD** – A protective enclosure for the lamp having provision for lamp replacement.

2.6 **LAMPHOLDER ASSEMBLY** – A lampholder wiring device, to be enclosed in the hand lamp fitting, with provisions for the connection of the power-supply cord conductors and with or without receptacle contacts. Insulating barriers may be included. The lampholder assembly may have a switch to control the lamp.

2.7 **PORTABLE HAND LAMP** – A complete assembly consisting of a hand lamp fitting with a power-supply cord (without a through-cord switch) for connection to a receptacle outlet.

2.8 **POWER-SUPPLY CORD** – A length of flexible cord terminating at one end in an attachment plug to connect with a receptacle outlet. The free end is available for connection to a hand lamp fitting.