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**Underwriters Laboratories Inc.®**A not-for-profit organization dedicated to public safety
and committed to quality service**June 22, 1994****Revision pages for****Standard for****Junction Boxes for Swimming Pool Lighting Fixtures****UL 1241, Fifth Edition**

Attached to this transmittal notice is a revision of the fifth edition of UL 1241.

A CHANGE ON A PAGE DATED JUNE 22, 1994 IS INDICATED BY A SMALL PRINT NOTE FOLLOWING THE
AFFECTED ITEM, PRECEDED AND FOLLOWED BY AN ASTERISK.

THESE NEW AND REVISED REQUIREMENTS ARE NOW IN EFFECT.

Attention is directed to the note on the title page of this standard outlining the procedure to be followed to
retain the approved text of ANSI/UL 1241-1994.

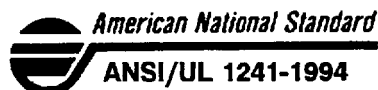
Revised and/or additional pages may be issued from time to time.

With the inclusion of the accompanying material, the standard consists of pages dated as shown in the
following checklist:

Page	Date
1	June 21, 1994 (Reprinted June 22, 1994)
2	—
3, 4	June 21, 1994
5	June 22, 1994
6 – 15, A1	June 21, 1994

JUNE 21, 1994

(Title page reprinted: June 22, 1994)



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UL 1241**Standard For****Junction Boxes for Swimming Pool
Lighting Fixtures**

Prior to the First Edition, junction boxes for swimming pool lighting fixtures were investigated using the First Edition of the Standard for Underwater Lighting Fixtures and Junction Boxes for Swimming Pools, UL 676.

First Edition – April, 1976

Second Edition – November, 1978

Third Edition – January, 1985

Fourth Edition – June, 1989

Fifth Edition**June 21, 1994**

Approval as an American National Standard (ANSI) covers the numbered paragraphs on pages dated June 21, 1994. These pages should not be discarded when revised or additional pages are issued if it is desired to retain the ANSI approved text.

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

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 published set of revision pages.

Approved as ANSI/UL 1241-1984, August 27, 1984

Approved as ANSI/UL 1241-1989, March 8, 1989

Approved as ANSI/UL 1241-1994, January 31, 1994

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INTRODUCTION

1 Scope

1.1 These requirements cover junction boxes for use with swimming pool lighting fixtures intended for installation and use in accordance with the National Electrical Code, ANSI/NFPA 70.

1.2 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involve a risk of 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 may be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

1.2 added June 22, 1994

2 General

2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the products covered by this standard.

2.1.2 A component need not comply with a specific requirement that:

- a) Involves a feature or characteristic not needed in the application of the component in the product by this standard, or
- b) Is superseded by a requirement in this standard.

2.1.3 A component shall be used in accordance with its recognized rating established for the intended conditions of use.

2.1.4 Specific components are recognized as being incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions for which they have been recognized.

2.2 Units of measurement

2.2.1 If a value for measurement is followed by a value in other units in parentheses, the second value may be only approximate. The first stated value is the requirement.

2.3 Undated references

2.3.1 Any undated reference to a code or a standard appearing in the requirements in this standard shall be interpreted as referring to the latest edition of that code or standard.

3 Glossary

3.1 For the purpose of this standard, the following definitions apply.

3.2 CONDUIT HUB – A female threaded connector that is integral with the box material for connection of threaded rigid conduit.

3.3 JUNCTION BOX – Any junction box for use with swimming pool lighting fixtures that is covered by this standard.

CONSTRUCTION

4 General

4.1 The construction of a junction box and its cover shall have the strength and rigidity necessary to resist the abuses to which it is likely to be subjected without increasing any risk of fire, electric shock, or injury to persons due to total or partial collapse with the attendant reduction in spacings, loosening or displacement of parts, or other defects.

4.2 A part that the conductors may contact in the box shall be free from sharp or rough edges and surfaces that may cause abrasion.

4.3 A box, its cover, and any assembly hardware shall be packaged together as a single unit.

5 Materials and Thicknesses

5.1 General

5.1.1 A box and its cover shall be:

- a) Of copper, brass, or other metal inherently resistant to corrosion; or
- c) Of a polymeric material evaluated for use as an enclosure or cover.

Zinc-base die-cast metal, sheet steel, cast iron, and sheet or cast aluminum are not to be used.

5.1.2 A cast-metal box or cover shall have a wall thickness not less than 1/8 inch (3.2 mm).

Exception: A permanent mold-cast box or cover may have a wall thickness of not less than 3/32 inch (2.4 mm).

5.2 Polymeric material

5.2.1 A polymeric material may be used if, after considering its:

- a) Mechanical strength and rigidity;
- b) Resistance to impact;
- c) Moisture-absorptive properties;
- d) Combustibility;
- e) Resistance to temperatures and atmospheric conditions likely to be encountered under all conditions of use;
- f) Resistance to arcing, sunlight, and hot-wire ignition; and

Junction Boxes for Swimming Pool Lighting Fixtures



Northbrook, Illinois • (708) 272-8800
Melville, New York • (516) 271-6200
Santa Clara, California • (408) 985-2400
Research Triangle Park,
North Carolina • (919) 549-1400



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June 21, 1994

Standard for

Junction Boxes for Swimming Pool Lighting Fixtures

UL 1241, Fifth Edition

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THIS EDITION OF THE STANDARD IS NOW IN EFFECT.

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