

Australian Standard 3137—1980

Amelt 1

APPROVAL AND TEST
SPECIFICATION FOR
LUMINAIRES
(LIGHTING FITTINGS)

*S/S
By
AS 3137
(1986)*

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THE FOLLOWING INDUSTRIAL, SCIENTIFIC AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this specification:

- Australian Chamber of Commerce
- Australian Electrical and Electronics Manufacturers Association
- Confederation of Australian Industries
- Electrical Apparatus Approvals Authorities
- Electrical Contractors Associations of Australia
- Electrical Testing Laboratories
- Electricity Supply Association of Australia
- Electronic Importers Association

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Revised	May 1969
Revised and issued as AS 3137.....	October 1974
Revised	April 1980

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AMENDMENT No 1
to
AS 3137—1980
SAA Approval and Test Specification
for
LUMINAIRES (LIGHTING FITTINGS)

The 1980 edition of AS 3137 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: clauses 4 and 12.

Published on 1 May 1981.

Page 5. Clause 4.

Add a new item (h) as follows:

- (h) The maximum mass which may be supported by the ferrule of a B22 bayonet cap lampholder shall be 1.5 kg.

This amendment forms part of the specification 6 months after publication.

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Page 8. Clause 12.

Add the following to item (a) as a second sentence:

For the purpose of this clause a capacitive ballast shall be treated as one unit and, as such, comply with AS C168 as a combination.

This amendment forms part of the specification on publication.

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APRIL
1981

Amendment No 2
April 1982

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AMENDMENT No 2

to

AS 3137—1980

Approval and Test Specification

for

LUMINAIRES (LIGHT FITTINGS)

The 1980 edition of AS 3137 which was previously amended in April 1981 is further amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clause 4, 14, 17.7 (new), 17.8 (new) and Table 1. In addition a number of references to AS C100 have been changed to AS 3100.

Published on 19 April 1982.

Preface.

Page 4. (Line under title.) ✓

Clauses 3.1, 6, 7, 8, 9, 10.4, 11, 13, 16 and 17

Delete 'AS C100' and insert 'AS 3100'.

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APRIL
1982

Clause 7.

First line—*delete* '(see Definition 2.19 of AS C100)' and *substitute* '(see Definition 2.21 of AS 3100).

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No 2
APRIL
1982

This amendment forms part of the specification on publication.

Page 5. Clause 4.

Delete existing item (h) as added by Amendment No 1) and *substitute*:

- (h) The maximum axial tensile force which may be applied to the ferrule or skirt of a B22 bayonet cap lampholder shall be 30 N. Where a luminaire is supported by means of a lampholder adaptor and flexible cord, the maximum mass supported by a B22 bayonet cap lampholder shall be the maximum permitted for flexible cords in Clause 3.22.3.2 of AS 3000, or 5.0 kg, whichever is the lesser.

AMDT
No 2
APRIL
1982

This amendment forms part of the specification on publication.

Page 9. Clause 14.

Delete existing last paragraph and *substitute* the following:

Where flammable materials are permitted in accordance with the above and are used in the construction of the luminaire they shall comply with the relevant requirements of Clause 17.7.

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APRIL
1982

This amendment forms part of the specification on 1 January 1983.

Page 11. Table 1.

(i) *Add the following new test:*

8	Determination of Ignitability and Combustion Propagation	17.7 herein
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This amendment forms part of the specification on 1 January 1983.

(ii) *Add the following:*

9*	Test for D.C. Component	17.8 herein
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*This test may be conducted in conjunction with earlier appropriate tests.

This amendment forms part of the specification on 1 March 1983.

New Clause 17.7.

Add the following new clause:

17.7 Determination of Ignitability and Combustion Propagation. This test shall be carried out in accordance with the provisions of Clause 3.1.1 of AS 3100 with values for (a) and (b) as follows:

- (a) 750°C for 30 s.
- (b) 750°C for 30 s.

This amendment forms part of the specification on 1 January 1983.

New Clause 17.8.

Add the following new clause:

17.8 Test for D.C. Component. The appliance shall be tested in accordance with Clause 3.12 of AS 3100.

The direct current in the appliance neutral shall not exceed 30 mA.

This amendment forms part of the specification on 1 March 1983.

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AMENDMENT No 3
 to
AS 3137—1980
Approval and Test Specification for
LUMINAIRES (LIGHT FITTINGS)

REVISED TEXT

The 1980 edition of AS 3137 which was previously amended in April 1981 and April 1982 is further amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following section of the standard is covered by this amendment: Table 1.

Published on 9 May 1983.

Page 11. Table 1.

After Test No 5 *add* the following test:

6	Leakage Current Test	8.3.2 of AS 3100
7	High Voltage Test†	8.4 of AS 3100

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 1983

†This test is conducted immediately after test No 6, i.e. while the luminaire is hot.

Renumber test numbers 6, 7, 8, and 9 as 8, 9, 10 and 11.

This amendment forms part of the specification 6 months after publication.

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AMENDMENT No 4

to

AS 3137—1980

Approval and Test Specification for
LUMINAIRES
(Lighting Fittings)

REVISED TEXT

The 1980 edition of AS 3137 which was previously amended in April 1981 and April 1982, is further amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clause 4.

Published on 7 October 1983.

Page 5. Clause 4.

Item (a), second line—*add* the words 'or starter sockets' after the word 'lamp'.

This amendment forms part of the specification on publication.

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No 4
OCT.
1983

PREFACE

This specification, prepared by Committee EL/2 Electrical Approvals Standards, was approved on behalf of the Council of the Association on 25 February 1980, and was published on 1 May 1980.

It is one of a series of approval and test specifications issued by the Association under Part 2 of the SAA Wiring Rules. These specifications are accompanied by a general specification AS ~~C100~~³¹⁰⁰, containing definitions and general requirements for electrical materials and equipment. The purpose of these specifications is to outline conditions which must be met to secure approval for sale and use of electrical equipment in Australia. Only safety matters and conditions closely allied thereto are covered.

This edition was published to incorporate into the specification the amendments to AS 3137—1974 and to effect changes to Clause 15 with regard to the requirements for fuses that may be used in luminaire.

This specification supersedes AS 3137—1974 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary provisions of a contract.

This specification requires reference to the following Australian Standard Approval and Test Specifications:

AS 3117	Bayonet Lampholders
AS 3133	Air Break Switches
AS 3135	Semi-enclosed Fuses for AC Circuits
AS 3140	Edison-type Screw Lampholders
AS 3145	Radio Interference Suppression Devices
AS C100 ³¹⁰⁰	Definitions and General Requirements for Electrical Materials and Equipment
AS C126	Extra-low Voltage Transformers
AS C168	Fluorescent Lamp Ballasts

and to the following Australian and British standards:

AS 1881	Zinc Alloy Ingots (for Pressure Diecasting) and Zinc Alloy Pressure Diecastings
AS 1939	Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment
AS 3000	Part 1—SAA Wiring Rules
AS 646	Cartridge Fuse Links

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
Approval and Test Specification
for
LUMINAIRES (LIGHTING FITTINGS)

This specification shall be read in conjunction with AS C100 (See also Clause 3, below.)

1 SCOPE. This specification applies to luminaires (lighting fittings) which are intended for use in a fixed position, for indoor and for outdoor applications, and for connection in alternating or direct current circuits not in excess of low voltage.

It provides for two categories of luminaire according to intended ambient operating temperature (see Clause 1.1).

The specification does not apply to luminaires designed for street-lighting or for use in cold cathode discharge lighting systems, nor to those within the scope of the following specifications:

AS 3118	Electric Inspection Handlamps
AS 3128	Portable Lamp Standards and Brackets
AS 3152	Decorative Lighting Outfits
AS 2034	Flameproof Electric Lighting Fittings for Explosive Atmospheres

2 DEFINITIONS. For the purpose of this specification, the following definitions shall apply:

2.1 Luminaire (lighting fitting)—a complete lighting assembly intended to distribute, filter, or transform the light from one or more lamps together with such components as ancillary and auxiliary equipment, shades, diffusers, reflectors, and accessories, including the means of connection to supply circuit wiring, internal and interconnecting wiring, and any associated housings. A lampholder which is not incorporated in an assembly is not regarded as a luminaire.

2.2 Recessed luminaire—a luminaire intended to be partly or wholly recessed into a surface.

2.3 Surface mounted luminaire—a luminaire intended to be mounted directly on a surface without the use of brackets.