

Australian Standard[®]

**Approval and test specification—
Luminaires (lighting fittings)**

This Australian Standard was prepared by Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of Standards Australia on 17 December 1991 and published on 16 April 1992.

The following interests are represented on Committee EL/2:

Australian Chamber of Commerce
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Consumer Electronics Suppliers Association
Electrical Apparatus Approvals Authorities
Electrical testing laboratories
Electricity Supply Association of Australia
Institution of Engineers, Australia
New Zealand Manufacturers Federation
New Zealand Ministry of Commerce (Energy Inspection)

In addition a New Zealand electrical consultant was also part of the Committee

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PREFACE

This Specification was prepared by the Standards Australia Committee on Electrical Approvals Standards to supersede AS 3137—1986.

It is one of a series of Approval and Test Specifications issued by Standards Australia. This Specification is to be read in conjunction with AS 3100, *Approval and test specification—General requirements for electrical equipment*. The purpose of this Specification is to outline conditions which must be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

This edition was published to incorporate into the Specification Amendment Nos. 1 and 2 to AS 3137—1986 and to effect change to Clause 17 concerning marking requirements for dichroic luminaires.

This Specification supersedes AS 3137—1986 from date of publication with the exception of Clause 17.1.4 which takes effect 12 months from publication.

Attention is drawn to the fact that this Specification does not purport to include all the necessary provisions of a contract.

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STANDARDS AUSTRALIA

Australian Standard

Approval and test specification—Luminaires (lighting fittings)

1 SCOPE This Specification specifies essential safety requirements for luminaires (lighting fittings), which are intended for use in a fixed position, for indoor and outdoor applications, and for connection to a.c. or d.c. supply not exceeding low voltage.

It provides for two categories of luminaire according to intended ambient operating temperature (see Clause 16).

The Specification does not apply to luminaires within the scope of the following Standard and specifications:

AS 3118 Approval and test specification—Electric inspection handlamps

AS 3128 Approval and test specification—Portable lamp standards and brackets

AS 3152 Approval and test specification—Decorative lighting outfits

AS 2480 Electrical equipment for explosive atmospheres—Flameproof enclosures—Type of protection d

2 APPLICATION

2.1 General requirements of AS 3100 This Specification shall be read in conjunction with AS 3100, and the appropriate provisions of that Specification shall apply to the construction of a luminaire and to the insulation and safeguarding of parts which normally carry current.

2.2 Specific requirements of this Specification A luminaire shall be deemed to comply with this Specification only if it complies with all the requirements of this Specification and passes the tests specified herein.

2.3 Compliance with other Specifications Equipment and components incorporated in a luminaire upon which safety depends shall comply with the appropriate requirements of any relevant Approval and Test Specification unless such requirements are varied herein.

3 REFERENCED DOCUMENTS The following documents are referred to in this Specification.

STANDARDS

AS

- 1201 Tubular fluorescent lamps for general lighting service
- 1881 Zinc alloys—Casting ingots and castings—Quality requirements
- 1939 Degrees of protection provided by enclosures for electrical equipment (IP Code)
- 2480 Electrical equipment for explosive atmospheres—Flameproof enclosure—Type of protection d
- 3000 SAA Wiring Rules

APPROVAL AND TEST SPECIFICATIONS

AS

- 3100 General requirements for electrical equipment
- 3108 Particular requirements for isolating transformers and safety isolating transformers
- 3117 Bayonet lamp holders
- 3118 Electric inspection handlamps
- 3128 Portable lamp standards and brackets
- 3135 Semi-enclosed fuses for a.c. circuits
- 3140 Edison-type screw lampholders
- 3155 Radio interference suppression devices
- 3152 Decorative lighting outfits
- 3168 Fluorescent lamp ballasts

BS

- 646 Specification—Cartridge fuse-links (rated up to 5 amperes) for a.c. and d.c. service

4 DEFINITIONS For the purpose of this Specification, the definitions below apply.

4.1 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.