

AS 1680.1—1990

Australian Standard[®]

Interior lighting

**Part 1: General principles and
recommendations**

This Australian Standard was prepared by Committee LG/1, Interior Lighting. It was approved on behalf of the Council of Standards Australia on 23 April 1990 and published on 16 July 1990.

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Australian Electrical and Electronic Manufacturers Association
Australian Optometrical Association
Building Owners and Managers Association of Australia
Confederation of Australian Industry
Department of Administrative Services — Australian Construction Services
Electricity Supply Association of Australia
Illuminating Engineering Societies of Australia
Ministry of Housing and Construction, Vic.
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recommendations**

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PREFACE

This Standard was prepared by the Standards Australia Committee on Interior Lighting. It comprises Part 1 of a series of Standards which together supersede AS 1680—1976, *Interior Lighting and the Visual Environment*.

When complete the series will comprise the following:

AS

1680 *Interior Lighting*

1680.1 Part 1: *General principles and recommendations* (This Standard)

1680.2 Part 2: (This will comprise a series of separate Standards covering specific interiors and activities)

1680.3 Part 3: *Measurement, calculation and presentation of photometric data*

In the preparation of this Standard particular reference was made to the following publications:

CIBS Code for Interior Lighting, Chartered Institution of Building Services Engineers, London, 1984.

CIE Publication No 29.2, *Guide on Interior Lighting*, International Commission on Illumination, Vienna, 1986.

Grateful acknowledgement is made of the assistance derived from these sources.

The following are some of the more significant changes which have been made in comparison with AS 1680—1976:

- (a) The specification of lighting levels in terms of 'maintenance illuminance' rather than 'service illuminance'. This will facilitate assessment of compliance with the Standard at any time during the life of a lighting system. (See Clause 3.3.4 and Appendix D.)
- (b) Provision for a more comprehensive assessment of glare from electric lighting in terms of a calculated glare index for the interior. This is an alternative to the luminaire selection procedure (in terms of luminance limits and cut-off angles) similar to that specified in AS 1680—1976. (See Clause 8.4.)
- (c) A significant expansion of advice provided on the daylighting of buildings, including the integration of daylight and electric light, and on the effective use of energy. (See Clauses 10.2, 10.6 and 10.7.)
- (d) More detailed advice is given on light sources, luminaires and lighting control systems and factors which influence the choice of lighting system for a given application.
- (e) Inclusion of other useful advice and information for reference in the design, installation, operation and maintenance of interior lighting.

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