

Australian/New Zealand Standard™

Interior and workplace lighting

Part 5: Outdoor workplace lighting



AS/NZS 1680.5:2012

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee LG-001, Interior and Workplace Lighting. It was approved on behalf of the Council of Standards Australia on 24 April 2012 and on behalf of the Council of Standards New Zealand on 26 April 2012.
This Standard was published on 28 May 2012.

The following are represented on Committee LG-001:

Australian Building Codes Board
Engineers Australia
IES: The Lighting Society
Institution of Professional Engineers New Zealand
Lighting Council of Australia
Lighting Council of New Zealand
Property Council of Australia
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This Standard was issued in draft form for comment as DR AS/NZS 1680.5.

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First published as AS/NZS 1680.5:2012.

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Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, Private Bag 2439, Wellington 6140

ISBN 978 1 74342 139 0

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee LG-001, Interior and Workplace Lighting.

This Standard forms Part 5 of the AS(/NZS) 1680 series, which covers lighting of interiors and workplaces. It is intended to be read in conjunction with the general recommendations and requirements of AS/NZS 1680.1:2006 and the structures of the two Standards are closely aligned to facilitate this.

The AS(/NZS) 1680 series currently consists of the following:

AS(/NZS)

1680	Interior and workplace lighting
1680.0	Part 0: Safe movement
1680.1	Part 1: General principles and recommendations
1680.2.1	Part 2.1: Circulation spaces and other general areas
1680.2.2	Part 2.2: Office and screen-based tasks
1680.2.3	Part 2.3: Educational and training facilities
1680.2.4	Part 2.4: Industrial tasks and processes
1680.2.5	Part 2.5: Hospital and medical tasks
1680.3	Part 3: Measurement, calculation and presentation of photometric data
1680.4	Part 4: Maintenance of electric lighting systems
1680.5	Part 5: Outdoor workplace lighting (this Standard)

NOTE: Until the revision of this series is complete, some of the above Standards might have, as a main title, 'Interior lighting'.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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Australian/New Zealand Standard Interior and workplace lighting

Part 5: Outdoor workplace lighting

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements, general principles and recommendations for the permanent lighting of exterior workplaces. It applies to exteriors in which specific visual tasks are undertaken. It applies only when this area is being used as a workplace. The provisions have the object of producing a visual environment in which essential task details are made easy to see and adverse factors that may cause visual discomfort are either excluded or appropriately controlled.

Recommendations for the lighting of interiors or activities are provided in AS/NZS 1680.1 and the AS(NZS) 1680.2 series.

This Standard generally does not address:

- (a) Outdoor workplaces that are temporary and short term, e.g. emergency road or service repair. However, the recommendations in this Standard should be considered in selecting and locating the temporary lighting. Clause 4.1.2 contains specific considerations for the directional effects of lighting.
- (b) Any outdoor work area covered by a roof. Such work areas should be designed in accordance with AS/NZS 1680.1 and the AS(NZS) 1680.2 series. Refer also to AS/NZS 1680.0 for basic requirements for safe movement.
- (c) Lighting for the purposes of decoration, display, entertainment, dining, sport or security (including CCTV).
- (d) Lighting of Category V roads as defined in AS/NZS 1158.1.1.
- (e) Lighting for individual industries, such as airports, surface mines, chemical plants and railway stations. Many industries have internal or other lighting standards. However, in the absence of particular advice, the recommendations in this Standard should be considered.
- (f) Daylight design of exterior workplaces.

NOTE: Attention is drawn to the AS/NZS 2293 series, which sets out requirements for the lighting necessary to alleviate panic and to permit safe evacuation of the workplace should this be required in the event of loss of the normal lighting.

1.2 OBJECTIVE

The objective of this Standard is to provide the reader with an explanation of the factors relevant to exterior lighting and with recommendations and guidance in dealing with these factors. The intent of this guidance is to facilitate the creation of visual environments that exclude or, at least, control visual fatigue and thereby promote efficiency and wellbeing in the illuminated space.