

Australian/New Zealand Standard™

**Interior and workplace lighting**

**Part 2.4: Industrial tasks and processes**



## **AS/NZS 1680.2.4:2017**

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 10 May 2017 and by the New Zealand Standards Approval Board on 7 June 2017.  
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The following are represented on Committee LG-001:

Australian Building Codes Board  
CIE Australia  
Energy Efficiency and Conservation Authority of New Zealand  
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IES: The Lighting Society  
Lighting Council Australia  
Lighting Council New Zealand  
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# Australian/New Zealand Standard™

## Interior and workplace lighting

### Part 2.4: Industrial tasks and processes

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee LG-001, Interior and Workplace Lighting, to supersede AS/NZS 1680.2.4:1997.

The objective of this Standard is to set out recommendations aimed at the provision of a visual environment conducive to the safe and efficient performance of tasks associated with industrial activities and processes.

This Standard is intended to be read in conjunction with the general recommendations of AS 1680.1, *Interior and workplace lighting, Part 1: General principles and recommendations*, and with other specific recommendations in the AS/NZS 1680.2 series which may apply, depending on the function of the interior space or the specific visual tasks involved.

This Standard parallels the structure of AS 1680.1 and contains recommendations that either add to or vary the recommendations of that Standard. While the sections of this Standard correspond with those of AS 1680.1, the clauses within each section are numbered consecutively and do not directly relate to the clauses in AS 1680.1.

Changes from the previous edition are as follows:

- (a) 'Maintenance illuminance' has been changed to 'maintained illuminance' to conform with AS/NZS 1680.1.
- (b) Diagrams of old industrial processes have been replaced with descriptions of tasks.
- (c) Table E1 has been restructured to place the emphasis on task difficulty rather than try to capture all work tasks in every industry. This will allow adaption to changes in work practices and the increasing automation of industry.

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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#### Part 2.4: Industrial tasks and processes

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## SECTION 1 SCOPE AND GENERAL

### **1.1 SCOPE**

This Standard sets out recommendations for the lighting of industrial tasks and processes that are carried out within buildings. For some tasks or processes, regulations may apply controlling the type of lighting equipment that should be used (e.g. in hazardous areas), or requiring the provision of a supplementary lighting system (e.g. safety lighting). These regulations need to be observed.

This Standard does not cover outdoor tasks.

NOTE: See AS/NZS 1680.5 for outdoor workplace lighting.

### **1.2 APPLICATION**

This Standard should be read in conjunction with the general recommendations of AS/NZS 1680.1 and with any applicable specific recommendations in the AS/NZS 1680.2 series.

This Standard, in general, contains material that adds to or varies the recommendations of AS/NZS 1680.1. The use of this Standard without reference to AS/NZS 1680.1 is a misapplication of the Standard.

If any recommendation in this Standard differs from the general recommendations of AS/NZS 1680.1, the recommendation in this Standard should prevail.

Attention should be paid to Section 1 of AS/NZS 1680.1, which provides information that may be needed to correctly apply this Standard.

### **1.3 REFERENCED DOCUMENTS**

The documents referred to in this Standard are listed in Appendix A.

### **1.4 DEFINITIONS**

For the purposes of this Standard, the definitions given in AS 1680.1 and those below apply.

#### **1.4.1 Safety lighting**

A form of lighting, energized from an alternative power source, which is intended to ensure that operating personnel can move to a place of safety, or control or shut down the process in a safe manner, in the event of failure of the electrical supply to the normal lighting.

#### **1.4.2 Standby lighting**

A form of lighting, energized from an alternative power source, which in the event of failure of the electrical supply to the normal lighting, is intended to facilitate the continued performance of particular tasks or processes.