



## **Sports lighting**

### **Part 1: General principles**

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This Australian Standard® was prepared by Committee LG-009, Sports Lighting. It was approved on behalf of the Council of Standards Australia on 14 November 2018. This Standard was published on 5 December 2018.

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  - Australian Industry Group
  - Baseball Australia
  - CIE Australia
  - Cricket Australia
  - Department of National Parks, Sport and Racing
  - IES: The Lighting Society
  - Lighting Council Australia
  - Parks and Leisure Australia
  - Sports and Play Industry Association
  - Sport and Recreation Victoria
  - Tennis Australia
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This Standard was issued in draft form for comment as DR AS 2560.1:2018.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard®

**Sports lighting**

**Part 1: General principles**

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## PREFACE

This Standard was prepared by the Standards Australia Committee LG-009 Sports Lighting, to supersede AS 2560.1—2002.

The AS 2560 series is in two main parts. Part 1 deals with the lighting of places, both indoors and outdoors, where sport is played. Part 2 addresses the lighting of a specific sport or associated sporting venue.

When revision is completed, the series will consist of the following:

### AS

2560	Sports lighting
2560.1	Part 1: General principles (this Standard)
2560.2.1	Part 2.1: Specific applications—Lighting for outdoor tennis
2560.2.2	Part 2.2: Specific applications—Lighting of multipurpose indoor sports centres
2560.2.3	Part 2.3: Specific applications—Lighting for football (all codes)
2560.2.4	Part 2.4: Specific applications—Lighting for outdoor netball and basketball
2560.2.5	Part 2.5: Specific applications—Swimming pools
2560.2.6	Part 2.6: Specific applications—Baseball and softball
2560.2.7	Part 2.7: Specific applications—Outdoor hockey
2560.2.8	Part 2.8: Specific applications—Bowling greens

The AS 2560 series is not intended to apply to lighting systems for television coverage. Generally, specialist lighting requirements are needed for these installations; usually requiring relatively higher vertical illuminance levels, and higher uniformity. However, the general principles of AS 2560 should be applied to such venues, specifically (but not limited to): the methods of calculation, glare limitation, and the assessment of the installation. For guidance on TV lighting requirements, refer to the following documents:

- Free TV Australia Operation Practice OP-31, Lighting Requirements for Television.
- CIE 169:2005 Practical guidelines for the lighting of sport events for colour television and filming, International Commission on Illumination (CIE), Vienna, 2005.
- CIE Publication No. 82 Guide for the lighting of sports events for colour television and film systems, International Commission on Illumination (CIE), Vienna.

The various sporting organisations often publish their own technical recommendations.

The terms 'normative' and 'informative' are used in Standards to define the application of the appendices 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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## STANDARDS AUSTRALIA

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**Australian Standard**  
**Sports lighting**


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**Part 1: General principles**


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## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard contains recommendations and requirements for the lighting of places, both indoors and outdoors, where sport is played. It includes general principles and recommendations for sports lighting, descriptions of suitable types of lighting equipment, and requirements regarding methods for the assessment or measurement of sports lighting installations.

This Standard is intended to be read in conjunction with the applicable section of AS 2560.2 covering the sport of interest. Taken together, these Standards cater for the requirements of different levels of play, e.g. recreational, training, club, national and international, and provide for the visual requirements of participants, officials and spectators, as appropriate.

This Standard does not detail the special requirements of lighting for television coverage.

This Standard makes recommendations, but does not set requirements, regarding obtrusive light released into the environment from sports lighting installations (See Clause 2.10.4.).

**1.2 APPLICATION**

For this Standard to be applied, the lighting needs of sports areas should be considered at the design and layout stage of the planning of such venues, in order that lighting equipment and supporting structures may be located so as to provide the required uniformity of illumination, to minimize glare and obstruction to participants and play respectively and to minimize the obtrusive effect of outdoor lighting.

For each type of sport there are preferred locations for the mounting of lighting equipment. These locations are related to the nature of the sport, the direction of play and other factors. Early consultation between the architect (venue designer) and the lighting designer is desirable to ensure provision is made for suitable locations and mountings for lighting equipment. A completely satisfactory installation is often difficult to achieve when limited by physical constraints, which can be avoided if lighting is considered at the design stage.

**1.3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS	
1680	Interior and workplace lighting
1680.1	Part 1: General principles and recommendations
2560	Sports lighting
2560.2	Part 2: Specific applications
4282	Control of the obtrusive effects of outdoor lighting