

AS 2560.2:2021



# Sports lighting

## Part 2: Specific applications



AS 2560.2:2021

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- Australian Football League
- Baseball Australia
- Confederation of Australian Sport
- Cricket Australia
- Department of National Parks, Sport and Racing
- Hockey Australia
- IES: The Lighting Society
- Lighting Council Australia
- Parks and Leisure Australia
- Property Council of Australia
- Sports And Play Industry Association
- Sports and Recreation Victoria
- Tennis Australia

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## Preface

This Standard was prepared by the Standards Australia Committee LG-009, Sports Lighting, to supersede and to integrate into a single document, the following:

AS 2560.2.1:2003, *Sports lighting, Part 2.1: Specific applications—Lighting for outdoor tennis*

AS 2560.2.2:1986, *Guide to sports lighting, Part 2.2: Lighting of multipurpose indoor sports centres*

AS 2560.2.3:2007, *Sports lighting, Part 2.3: Specific applications—Lighting for football (all codes)*

AS 2560.2.4:1986, *Guide to sports lighting, Part 2.4: Lighting for outdoor netball and basketball*

AS 2560.2.5:2007, *Sports lighting, Part 2.5: Specific applications—Swimming pools*

AS 2560.2.6:1994, *Guide to sports lighting, Part 2.6: Specific recommendations—Baseball and softball*

AS 2560.2.7:1994, *Guide to sports lighting, Part 2.7: Specific recommendations—Outdoor hockey*

AS 2560.2.8:2007, *Sports lighting, Part 2.8: Specific applications—Outdoor bowling greens*

Additional sports have also been included in this document. For example, cricket, squash, equestrian, aquatic sports (diving), and indoor where applicable. Uniformity gradient is applied more broadly.

It forms part of the AS 2560 series. The AS 2560 series is in two main parts. Part 1 deals with general principles and recommendations for places where sport is played. Part 2 is a collection of requirements, recommendations, and calculation methods for the lighting of specific sports or sporting venues.

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

AS 2560.1, *Sports lighting, Part 1: General principles*

AS 2560.2, *Sports lighting, Part 2: Specific applications* (this document)

This document is intended to be applied in conjunction with the general principles and recommendations of AS 2560.1.

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 high 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 measurement of the installation. For guidance on TV lighting requirements, refer to the following documents:

- (a) Free TV Australia Operation Practice OP-31, *Lighting Requirements for Television*.
- (b) CIE 083, *Guide for the lighting of sports events for colour television and film systems*, 3rd Edition, International Commission on Illumination (CIE), Vienna, 2019.
- (c) CIE 169, *Practical guidelines for the lighting of sport events for colour television and filming*, International Commission on Illumination (CIE), Vienna, 2005.

The various sporting organizations 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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# Australian Standard®

## Sports lighting

### Part 2: Specific applications

#### Section 1 Scope and general

##### 1.1 Scope

This document contains design and performance requirements and recommendations for the lighting of specific outdoor and indoor sports areas. It also provides recommendations for spectator areas and safety lighting.

This document does not include the special lighting requirements which will apply for television broadcasting.

This document does not include any requirements or recommendations with respect to indoor emergency lighting. Refer to AS/NZS 2293.

This document does not make recommendations or set requirements regarding obtrusive light effects from sports lighting installations. Refer to AS/NZS 4282.

##### 1.2 Application

This document is intended to be read in conjunction with AS 2560.1. The specific requirements in this document shall take precedence over the general recommendations of AS 2560.1. The choice of which level of play is applicable rests with the client (usually the applicable owner and/or governing body). Level of play guidance may be found in recommendations produced by the relevant sporting authority.

##### 1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document:

NOTE Documents for informative purposes are listed in the Bibliography.

AS 2560.1, *Sports lighting, Part 1: General principles*

AS ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

##### 1.4 Terms and definitions

The definitions given in AS 2560.1 and those below apply.

###### 1.4.1

###### **aiming**

###### **luminaire aiming**

angles of rotation and tilt at which the reference direction of a luminaire (usually a floodlight) is directed

Note 1 to entry: See [Clause 1.7](#).