

Australian Standard™

Sports lighting

**Part 2.1: Specific applications—
Lighting for outdoor tennis**

This Australian Standard was prepared by Committee LG-009, Sports lighting. It was approved on behalf of the Council of Standards Australia on 13 January 2003 and published on 24 February 2003.

The following are represented on Committee LG-009:

Association of Consulting Engineers Australia
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Sport
Department of Tourism, Sport and Racing (Qld)
Electricity Supply Association of Australia
Illuminating Engineering Society of Australia and New Zealand
NSW Department of Sport and Recreation
Parks and Leisure Australia
Sport and Recreation Victoria
Tennis Australia
Tennis Coaches Australia
Tennis Court Builders' Association of Australia

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2560.2.1—2003

Sports lighting

Part 2.1: Specific applications—Lighting for outdoor tennis

RECONFIRMATION NOTICE

Technical Committee LG-009 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 16 June 2017.

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Australian Football League
Australian Industry Group
Baseball Australia
CIE Australia
Confederation of Australian Sport
Consult Australia
Cricket Australia
Department of National Parks, Recreation, Sport and Racing
IES: The Lighting Society
Lighting Council Australia
Office for Recreation and Sport (SA)
Parks and Leisure Australia
Sports And Play Industry Association
Sports and Recreation Victoria
Tennis Australia

NOTES

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PREFACE

This Standard was prepared by the Standards Australia Committee LG-009, Sports Lighting, to supersede AS 2560.2.1—1982, *Lighting for outdoor tennis*.

It forms part of the AS 2560 series, which is as follows:

AS

2560	Sports lighting
2560.1	Part 1: General principles
2560.2	Specific applications
2560.2.1	Part 2.1 Lighting for outdoor tennis (this Standard)
2560.2.2	Part 2.2: Lighting of multipurpose indoor sports centres
2560.2.3	Part 2.3: Lighting for football (all codes)
2560.2.4	Part 2.4: Lighting for outdoor netball and basketball
2560.2.5	Part 2.5: Specific recommendations—Swimming pools
2560.2.6	Part 2.6: Specific recommendations—Baseball and softball
2560.2.7	Part 2.7: Specific recommendations—Outdoor hockey
2560.2.8	Part 2.8: Specific recommendations—Bowling greens

The AS 2560 series does not include consideration of the lighting necessary for television broadcasting because specialist advice is normally required for such installations and, in any event, there are international recommendations on this subject. (Refer to CIE Publication No 83, *Guide for the lighting of sports events for colour television and film systems*, International Commission on Illumination (CIE), Vienna, 1989.)

The proper application of this Standard will require reference to AS 2560.1 for the definitions of various technical parameters and the explanation of basic concepts and principles.

In the preparation of this Standard consideration was given to the following documents:

- (a) Tennis Australia, *National technical instruction No. 1 for outdoor tennis*.
- (b) The recommendations of the International Tennis Federation, *Guide to the Artificial Lighting of Tennis Courts*.
- (c) The recommendations of CIE Publication No 42, *Lighting for tennis*.

The significant changes that have been introduced in this document include the following:

- (i) In conjunction with AS 2560.1, the replacement in some cases of recommendations with requirements that must be met to claim compliance with this Standard.
- (ii) The introduction of new illuminance levels, a second uniformity ratio and glare rating requirements.
- (iii) The introduction of specific locations of illuminance calculation and measurement points and glare calculation observer points.
- (iv) The deletion of references to designs based on obsolete technology.

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STANDARDS AUSTRALIA

Australian Standard Sports lighting

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1 SCOPE

This Standard contains recommendations and requirements specific to the lighting of outdoor tennis courts (the requirements refer to methods of assessment and measurement and levels of performance).

This Standard deals with training and play up to competition level, and takes into account spectator viewing requirements associated with these levels of play.

This Standard does not address the amenity and emergency lighting which may be required in public areas associated with tennis court complexes.

Additional recommendations and requirements applicable to all sports venues, including those for outdoor tennis, are contained in AS 2560.1.

Recommendations and requirements applicable to lighting for indoor tennis are provided in AS 2560.2.2.

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

This Standard makes recommendations, but does not set requirements, regarding obtrusive light released into the environment from sports lighting installations (see Clause 11).

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS

- 2560 Guide to sports lighting
- 2560.1 Part 1: General principles
- 2560.2 Part 2: Specific applications
- 2560.2.2 Part 2.2: Lighting of multipurpose indoor sports centres

- 4282 Control of the obtrusive effects of outdoor lighting

AS/NZS

- 3827 Lighting system performance—Accuracies and tolerances

CIE

- 83 Guide for the lighting of sports events for colour television and film systems
- 112 Glare evaluation system for use within outdoor sports and area lighting

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 2560.1 as qualified below for the specific case of tennis courts apply. Some critical definitions are also repeated in this Standard.