

Australian Standard[®]

Guide to sports lighting

**Part 2.5: Specific
recommendations—
Swimming pools**

This Australian Standard was prepared by Committee LG/9, Sports Lighting. It was approved on behalf of the Council of Standards Australia on 28 October 1993 and published on 14 February 1994.

The following interests are represented on Committee LG/9:

Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Sport
Department of Sport and Recreation, Victoria
Department of Sport, Recreation and Racing, New South Wales
Department of Tourism Sport and Racing, Queensland
Electricity Supply Association of Australia
Illuminating Engineering Society of Australia and New Zealand
Public Works Department, New South Wales
Royal Australian Institute of Parks and Recreation
The Association of Consulting Engineers Australia

Additional interests participating in preparation of Standard:

Australian Swimming

Review of Australian Standards. *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 93073.

AS 2560.2.5—1994

Australian Standard[®]

Guide to sports lighting

**Part 2.5: Specific
recommendations—
Swimming pools**

First published as AS 2560.2.5—1994.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 8725 3

PREFACE

This Standard was prepared by the Standards Australia Committee on Sports Lighting and is one of a series of Standards (the AS 2560 series) which give advice on this subject.

The AS 2560 series is in two main parts. Part 1 outlines general principles and recommendations for the lighting of places, both indoors and outdoors, where sport is played; and Part 2 comprises a collection of separate Standards giving recommendations for the lighting of specific sports or sporting venues.

At the date of publication of this Standard, the following recommendations have been issued in the AS 2560.2 series:

AS

- 2560.2.1 Part 2.1: *Lighting for outdoor tennis*
- 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: *Lighting of swimming pools (this Standard)*
- 2560.2.6 Part 2.6: *Lighting for baseball and softball*
- 2560.2.7 Part 2.7: *Lighting for outdoor hockey*
- 2560.2.8 Part 2.8: *Lighting of bowling greens*

Reference to the general principles and recommendations of AS 2560.1 will be necessary for the proper application of the recommendations given in this Standard.

In the preparation of this Standard, reference was made to CIE Publication No. 62 (1984), *Lighting for swimming pools*, and the recommendations of the International Swimming Federation (FINA).

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.*

* CIE Publication No. 83, *Guide for the lighting of sports events for colour television and film systems*, International Commission on Illumination (CIE), Vienna, 1989.

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

	<i>Page</i>
1 SCOPE	4
2 REFERENCED DOCUMENTS	4
3 DEFINITIONS	4
4 CHARACTERISTICS OF SPORT AND IMPLICATIONS FOR LIGHTING	4
5 GENERAL DESIGN OBJECTIVES	5
6 ILLUMINANCE LEVELS	5
7 UNIFORMITY OF ILLUMINANCE	6
8 CONTROL OF GLARE AND VEILING REFLECTIONS	7
9 COLOUR RENDERING	7
10 LIGHTING SYSTEMS AND EQUIPMENT FOR OUTDOOR SWIMMING POOLS	7
11 LIGHTING SYSTEMS AND EQUIPMENT FOR INDOOR SWIMMING POOLS .	8
12 EMERGENCY LIGHTING	10

STANDARDS AUSTRALIA

Australian Standard
Guide to sports lighting

Part 2.5: Specific recommendations—Swimming pools

1 SCOPE This Standard sets out specific recommendations for the lighting of indoor and outdoor swimming pools. The recommendations will be applicable for a variety of pool-related activities, e.g. swimming, diving, water polo, synchronized swimming and general recreational uses.

This Standard provides recommendations both for recreational or training and for competition use, and takes into account spectator viewing requirements. Where lighting appropriate to recreation or training is to be installed, consideration should be given to the likelihood of the installation being upgraded for competition so that provision can be made at the time of installation to minimize the cost of the future alterations.

In addition to the recommendations of this Standard the general recommendations of AS 2560.1 should be observed, as applicable.

The Standard does not include the special lighting requirements which will apply for television broadcasting (see Preface).

2 REFERENCED DOCUMENTS The following document is referred to in this Standard:

AS
 2560 Guide to sports lighting
 2560.1 Part 1: General principles

3 DEFINITIONS For the purpose of this Standard, the definitions given in AS 2560.1 and those below apply.

3.1 Average illuminance—the arithmetic mean of the illuminances within the area of interest (e.g. the pool surface and immediate surrounds) on a specified plane, calculated or measured in a specified manner.

NOTE: See Clause 6 herein and Appendix C of AS 2560.1.

3.2 Initial illuminance—the value of average illuminance which is initially provided by the lighting system, i.e. with new lamps (aged to 100 h), clean luminaires and, where applicable, clean interior surfaces.

3.3 Maintenance illuminance—the value of average illuminance below which it is necessary to take remedial action in terms of maintaining the lighting system, e.g. by replacing the lamps or by cleaning the luminaires and, where applicable, cleaning windows, rooflights and interior surfaces.

NOTE: The term ‘maintenance illuminance’ is used in this Standard and is proposed for use in other Standards in the AS 2560 series. It replaces the former term ‘service illuminance’.

4 CHARACTERISTICS OF SPORT AND IMPLICATIONS FOR LIGHTING

Swimming pools are not areas where the occupants are called upon to perform exacting visual tasks. From the swimmers’ point of view the lighting is required to allow safe and pleasant movement in the water and around the sides of the pool. Attendants must be able

This is a free preview. Purchase the entire publication at the link below:

AS 2560.2.5 : 1994 : EN : COMBINED PDF

-
- ⏪ Looking for additional Standards? Visit SAI Global Infostore
 - ⏩ Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-

Need to speak with a Customer Service Representative - Contact Us