

Australian/New Zealand Standard™

**Lighting for roads and public spaces**

**Part 0: Introduction**



## **AS/NZS 1158.0:2005**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee LG-002, Lighting for Roads and Public Spaces. It was approved on behalf of the Council of Standards Australia on 29 April 2005 and on behalf of the Council of Standards New Zealand on 6 May 2005. This Standard was published on 7 September 2005.

---

The following are represented on Committee LG-002:

Astronomical Society of Australia  
Australian Electrical and Electronic Manufacturers Association  
Australian Industry Group  
Australian Local Government Association  
Energy Supply Association of Australia  
IES: The Lighting Society  
Ingenium  
Institute of Public Works Engineering Australia  
Land Transport Safety Authority New Zealand  
Main Roads Department, Queensland  
Main Roads Western Australia

---

### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at [www.saiglobal.com.au](http://www.saiglobal.com.au) or Standards New Zealand web site at [www.standards.co.nz](http://www.standards.co.nz) and looking up the relevant Standard in the on-line catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

---

# Australian/New Zealand Standard™

## Lighting for roads and public spaces

### Part 0: Introduction

Originated in Australia as part of AS CA19—1939.  
Revised and redesignated AS 1158.1—1973.  
Previous edition AS/NZS 1158.0:1997.  
This edition 2005.  
Reissued incorporating Amendment No. 1 (August 2008).  
Reissued incorporating Amendment No. 2 (April 2010).

#### **COPYRIGHT**

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6140

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee LG-002, Lighting for Roads and Public Spaces, to supersede AS/NZS 1158.0—1997, *Road lighting*, Part 0: *Introduction*.

*This Standard incorporates Amendment No. 1 (August 2008) and Amendment No. 2 (April 2010). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

This Standard forms Part 0 of the AS/NZS 1158 series, which covers lighting schemes for the generality of roads and outdoor public areas. The series title has recently been changed from 'Road lighting' to reflect an expansion in the scope of the series.

The AS/NZS 1158 series is currently being revised and, when that process is complete, it is expected that it will consist of the following:

### AS/NZS

1158	Lighting for roads and public spaces
1158.0	Part 0: Introduction (this Standard)
1158.1.1	Part 1.1: Vehicular traffic (Category V) lighting—Performance and installation design requirements
1158.1.3	Part 1.3: Vehicular traffic (Category V) lighting—Guide to design, installation, operation and maintenance
1158.2	Part 2: Computer procedures for the calculation of light technical parameters for Category V and Category P lighting
1158.3.1	Part 3.1: Pedestrian area (Category P) lighting—Performance and installation design requirements
1158.4	Part 4: Supplementary lighting at pedestrian crossings
1158.6	Part 6: Luminaires

NOTE: Until the revision of this series is complete, some of the above Standards might have as a main title 'SAA Public Lighting Code' or 'Road lighting'.

For each lighting subcategory described in this series of Standards the light technical parameters (LTPs) and their prescribed values are both necessary and sufficient for the particular application. Compliance with the relevant Standard will be achieved by meeting all the required values of the LTPs for the designated subcategory. A higher quality of lighting scheme can be achieved within a subcategory by, for example, increasing the minimum level of uniformity or reducing the glare allowable, or both.

The significant technical changes that have been made in this Standard in relation to the previous publication include the following:

- (a) New definitions have been added and amended definitions have been included for the terms 'carriageway lighting design width', 'spacing', 'visor', 'roadway width' and 'roadway'.
- (b) The definitions of all defined terms used in the AS/NZS 1158 series are now contained in this document only.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

## CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 REFERENCED DOCUMENTS.....	4
3 DEFINITIONS.....	5
4 SYMBOLS AND ABBREVIATIONS .....	13
5 LIGHTING CATEGORIES AND THEIR APPLICATION .....	14
APPENDIX	
A ALPHABETICAL LISTING OF DEFINITIONS .....	18

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard**  
**Lighting for roads and public spaces**

**Part 0: Introduction**

**1 SCOPE**

This Standard applies to the lighting of roads and other outdoor public spaces. It serves as a general introduction to the AS/NZS 1158 series and sets out the definitions and lighting categories needed for reference in other Standards in that series.

**2 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

## AS

- |          |   |
|----------|---|
| 1348     | Glossary of terms—Road and traffic engineering          |
| 1798     | Lighting poles and bracket arms—Preferred dimensions    |
| 1852     | International electrotechnical vocabulary               |
| 1852.845 | Chapter 845: Lighting                                   |
| 3665     | Simplified definitions of lighting terms and quantities |
| 1158     | Lighting for roads and public spaces                    |
| 1158.4   | Part 4: Supplementary lighting at pedestrian crossings  |

## AS/NZS

- |          |  |
|----------|--|
| 1158     | Lighting for roads and public spaces   |
| 1158.1.1 | Part 1.1: Vehicular traffic (Category V) lighting—Performance and installation design requirements                   |
| 1158.1.3 | Part 1.3: Vehicular Traffic (Category V) lighting—Guide to design, installation, operation and maintenance           |
| 1158.2   | Part 2: Computer procedures for the calculation of light technical parameters for Category V and Category P lighting |
| 1158.3.1 | Part 3.1: Pedestrian area (Category P) lighting—Performance and installation design requirements                     |
| 1158.6   | Part 6: Luminaires   |

## NZS

- |      |                                    |
|------|------------------------------------|
| 6701 | Code of practice for road lighting |
|------|------------------------------------|

## CIE\*

- |      |   |
|------|---|
| 13.3 | Method of measuring and specifying colour rendering properties of light sources |
| 121  | The photometry and goniophotometry of luminaires                                |

---

\* International Commission on Illumination, Vienna