

AS/NZS 1158.1.3:1997

Australian/New Zealand Standard[®]

Road lighting

**Part 1.3: Vehicular traffic
(Category V) lighting—Guide to
design, installation, operation
and maintenance**

AS/NZS 1158.1.3:1997

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee LG/2, Road Lighting. It was approved on behalf of the Council of Standards Australia on 27 September 1996 and on behalf of the Council of Standards New Zealand on 19 August 1996. It was published on 5 April 1997.

The following interests are represented on Committee LG/2:

Australian Electrical and Electronic Manufacturers Association
AUSTROADS
Electricity Supply Association of Australia
Illuminating Engineering Society of Australia and New Zealand
Institute of Municipal Engineering Australia
Land Transport Safety Authority, New Zealand
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Part 1.3: Vehicular traffic (Category V) lighting—Guide to design, installation, operation and maintenance

First published as AS/NZS 1158.1.3:1997.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee LG/2, Road Lighting.

This Standard forms Part 1.3 of a new series, the [AS/NZS 1158 series](#), which will collectively cover lighting for the generality of roads and outdoor public areas, for the movement of vehicles and pedestrians. The [AS/NZS 1158 series](#) will progressively replace Standards existing in the AS 1158 series, and NZS 6701.

For the application of Standards in the [AS/NZS 1158 series](#), a number of lighting categories are defined in [AS/NZS 1158.0](#), which may be broadly described as follows:

- (a) *Category V lighting* Lighting which is applicable to roads on which the visual requirements of motorists are dominant, e.g. traffic routes.
- (b) *Category B lighting* Lighting which is applicable to roads on which the visual requirements of pedestrians are dominant, e.g. local roads.
- (c) *Category C lighting* Lighting which is applicable to outdoor public areas, other than roads, where the visual requirements of pedestrians are dominant, e.g. outdoor shopping precincts.

This Standard applies to Category V lighting and has as its objective the provision of guidance to all concerned with the design, installation, operation and maintenance of such lighting, to facilitate compliance with the requirements of [AS/NZS 1158.1.1](#).

As at the date of publication of this Standard, the following Standards have been issued in the [AS/NZS 1158 series](#):

AS/NZS

- 1158 Road lighting
- 1158.0 Part 0: Introduction
- 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 (this Standard)

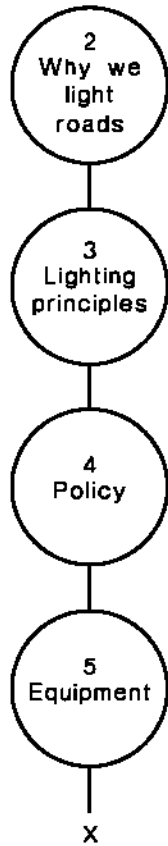
Requirements for the lighting of minor roads (i.e. Category B lighting) and for the lighting of outdoor public areas for pedestrian movement (i.e. Category C lighting) have yet to be issued within the [AS/NZS 1158 series](#). Until that time, the relevant requirements of [AS 1158.1—1986](#) or NZS 6701:1983 will continue to apply.

The subject matter covered in this Standard is divided into three main elements, as follows:

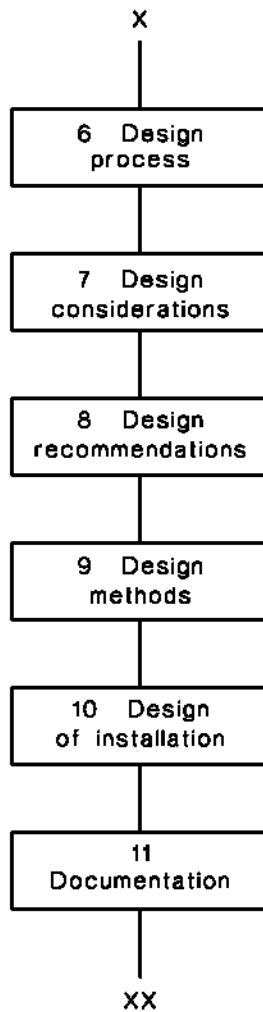
- (i) *Fundamentals* The information which must be known before engaging in a road lighting design.
- (ii) *Design* The considerations and processes involved in the development of a design for a road lighting scheme.
- (iii) *Application* Advice relating to the installation, operation and maintenance of a road lighting scheme.

These three broad subject areas are further divided into sections within this Standard as shown in the flow chart below.

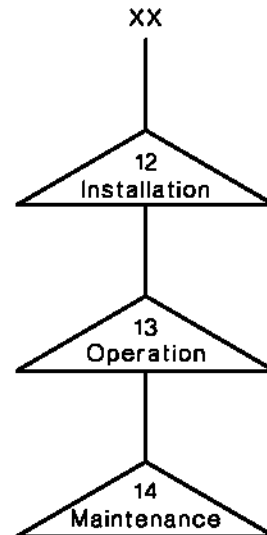
Fundamentals



Design



Application



Road lighting is acknowledged to be an effective accident counter-measure. The costs involved in providing road lighting can be demonstrated to provide significant financial and community benefits in terms of reductions in road accidents at night. Studies in Australia and New Zealand, and in other countries, have led to the conclusion that traffic route lighting is likely to reduce night time casualty accidents by about 30%, taken over the road network. See CIE Publication No. 93* and Reference 18 in Appendix A.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

* CIE Publication No. 93, Road lighting as an accident countermeasure (see extract in Appendix C).

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