

AS 3771—1998

Australian Standard[®]

**Road lighting luminaires with
integral control gear**

This Australian Standard was prepared by Committee LG/2, Road Lighting. It was approved on behalf of the Council of Standards Australia on 8 September 1997 and published on 5 January 1998.

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

Main Roads Department, Queensland

Metal Trades Industry Association of Australia

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integral control gear**

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee LG/2, Road Lighting, to supersede AS 3771—1990.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard. It has been issued in this form to incorporate a number of necessary changes, pending revision at a later date, for adoption as a joint Australian/New Zealand Standard.

The objective of this Standard is to set out requirements for the design, construction, performance and testing of road lighting luminaires with integral control gear, to ensure their suitability for the operating and environmental conditions to which they will be subjected in service.

Road lighting luminaires must withstand, and be capable of operating under, adverse conditions including the effects of salt spray, industrially contaminated atmospheres, fog, smoke, dust storms, snow, ultraviolet radiation, driving rain, wind and traffic-induced vibration.

The requirements of this Standard have the objective that luminaires will have a service life of at least 15 years. These requirements are based on the use of materials recognized as effective for the application as at the date of publication of this Standard. Whilst the introduction of new technology is not discouraged, the acceptance of new materials and methods of construction will be considered for inclusion in future editions of this Standard, only after evidence of satisfactory long-term performance. Similarly, consideration will be given to the inclusion of lamp types and ratings other than those provided for in the Standard when their suitability for the application has been satisfactorily demonstrated.

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 that is applicable to roads on which the visual requirements of motorists are dominant, e.g. traffic routes.
- (b) *Category B lighting*† Lighting that is applicable to roads on which the visual requirements of pedestrians are dominant, e.g. local roads.
- (c) *Category C lighting*† Lighting that 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 luminaires with integral control gear, which are designed to provide road lighting of Category V in accordance with AS/NZS 1158.1.1* or Category B in accordance with AS 1158.1†. It should be noted that, under the AS/NZS 1158 series, Category B lighting and Category C lighting are in the process of being combined and redesignated as Category P lighting.

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.

* AS/NZS 1158 Road lighting
AS/NZS 1158.0 Part 0: Introduction
AS/NZS 1158.1.1 Part 1.1: Vehicular traffic (Category V) lighting—Performance and installation design requirements

† AS 1158 The lighting of urban roads and other public thoroughfares
AS 1158.1—1986 Part 1: Performance and installation design requirements

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