

Australian/New Zealand Standard™

Lighting for roads and public spaces

**Part 3.1: Pedestrian area (Category P)
lighting—Performance and design
requirements**



AS/NZS 1158.3.1:2020

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 11 February 2020 and by the New Zealand Standards Approval Board on 5 February 2020. This Standard was published on 21 February 2020.

The following are represented on Committee LG-002:

Astronomical Society of Australia
Australian Industry Group
Australian Local Government Association
Centre for Pavement Engineering Education
CIE Australia
Consumers Federation of Australia
Department of Planning, Transport and Infrastructure, SA
Department of Transport and Main Roads, Qld
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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 Standards Australia or the New Zealand Standards Executive at the address shown on the back cover.

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Part 3.1: Pedestrian area (Category P) lighting—Performance and design requirements

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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 1158.3.1:2005, *Lighting for roads and public spaces, Part 3.1: Pedestrian area (Category P) lighting—Performance and design requirements*.

This Standard forms Part 3.1 of the AS/NZS 1158 series, which covers lighting schemes for the generality of roads and outdoor public areas.

The AS/NZS 1158 series consists of the following:

AS/NZS

- 1158 Lighting for roads and public spaces
- 1158.0 Part 0: Introduction
- 1158.1.1 Part 1.1: Vehicular traffic (Category V) lighting—Performance and design requirements
- 1158.1.2 Part 1.2: 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 design requirements (this Standard)
- 1158.4 Part 4: Lighting of pedestrian crossings
- 1158.5 Part 5: Tunnels and underpasses
- 60598 Luminaires
- 60598.2.3 Part 2.3: Particular requirements—Luminaires for road and street lighting (IEC 60598-2-3, Ed.3.1 (2011) MOD)

SA/SNZ TS

- 1158 Lighting for roads and public spaces
- 1158.6 Part 6: Luminaires—Performance

The significant technical changes that have been made in this Standard in relation to the 2005 edition include the following:

- (a) Separation of previous Table 2.6 into the differing requirements for lighting of ‘local roads’ and ‘cyclist paths’.
- (b) Clarification of glare requirements for high intensity discharge luminaires and new requirements for SSL light sources.
- (b) Additional and revised layout rules for typical road layouts.
- (d) Additional information relating to SSL light sources.
- (e) Additional requirements for surround illuminance.
- (f) Updated data on the specification of minimum ingress protection requirements for various maintenance factors and requirements regarding assumed and actual maintenance regimes and maintenance intervals.
- (g) Additional lighting level for lighting of external car parking areas.
- (h) New requirements relating to energy measures if required.
- (i) Additional option for specifying minimum environmental spill levels for local roads.

This joint Standard is intended to be applied in its entirety in Australia and New Zealand; however, a number of differences exist with respect to the requirements that apply in each country. These are indicated by the qualification 'In Australia' or 'In New Zealand', or similar.

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.

Statements expressed in mandatory terms in footnotes to tables are deemed to be requirements of this Standard.

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