

AS/NZS 1158.3.1:2020

(Incorporating Amendment No. 1)



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# 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 Amendment 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 05 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
- Energy Efficiency and Conservation Authority of New Zealand
- Energy Networks Australia
- IES: The Lighting Society
- Institute of Public Works Engineering Australasia
- Institute of Public Works Engineering New Zealand
- Lighting Council Australia
- Lighting Council New Zealand
- Main Roads Western Australia
- Municipal Association of Victoria
- New Zealand Transport Agency
- VicRoads
- Victorian Chamber of Commerce and Industry

This Standard was issued in draft form for comment as DR AS/NZS 1158.3.1:2018.

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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*.

**[A<sub>1</sub>]** This Standard incorporates Amendment No. 1 (October 2024). The start and end of changes introduced by the Amendment are indicated in the text by tags including the Amendment number 1. **[A<sub>1</sub>]**

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 1158.0, Lighting for roads and public spaces, Part 0: Introduction

AS/NZS 1158.1.1, Lighting for roads and public spaces, Part 1.1: Vehicular traffic (Category V) lighting—Performance and design requirements

AS/NZS 1158.1.2, Lighting for roads and public spaces, Part 1.2: Vehicular traffic (Category V) lighting—Guide to design, installation, operation and maintenance

AS/NZS 1158.2, Lighting for roads and public spaces, Part 2: Computer procedures for the calculation of light technical parameters for Category V and Category P lighting

AS/NZS 1158.3.1, Lighting for roads and public spaces, Part 3.1: Pedestrian area (Category P) lighting—Performance and design requirements (this Standard)

AS/NZS 1158.4, Lighting for roads and public spaces, Part 4: Lighting of pedestrian crossings

AS/NZS 1158.5, Lighting for roads and public spaces, Part 5: Tunnels and underpasses

AS/NZS 60598.2.3, Luminaires, Part 2.3: Particular requirements—Luminaires for road and street lighting (IEC 60598-2-3, Ed.3.1 (2011) MOD)

SA/SNZ TS 1158.6, Lighting for roads and public spaces, 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.
- (c) 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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