



Supplement to AS/NZS 1158 (0-6) Series
Lighting for roads and public space

OCTOBER 2015

vicroads.vic.gov.au

Table of Contents

1.	Introduction	3
1.1	General	3
1.2	How to Use this Supplement	3
2.	Classification of Supplement Information.....	4
3.	Details of Supplement Information	5
	AS/NZS 1158 (All parts)	5
	AS/NZS 1158 Part 0: Introduction.....	5
	AS/NZS 1158 Part 1.1: Vehicular traffic (Category V) lighting—Performance and design requirements.....	5
	AS/NZS 1158 Part 1.2: Vehicular traffic (Category V) lighting—Guide to design, installation, operation and maintenance	5
	AS/NZS 1158 Part 2: Computer procedures for the calculation of light technical parameters for Category V and Category P lighting	5
	AS/NZS 1158 Part 3.1: Pedestrian area (Category P) lighting—Performance and design requirements.....	5
	AS/NZS 1158 Part 4: Lighting of pedestrian crossings	6
	AS/NZS 1158 Part 5: Tunnels and underpasses	6
	AS/NZS 1158 Part 6: Luminaires.....	6

1. Introduction

1.1 General

All road agencies across Australia are working towards greater consistency between States/Territories in how road networks are managed. In order to achieve this, the Austroads Guide to Traffic Management and Australian Standards relating to traffic management have been adopted to assist in providing that level of consistency and harmonisation across all jurisdictions. This agreement means that these Austroads Guides and the Australian Standards are the primary technical references.

Australian Standard AS/NSZ 1158 (0-6)– *Lighting of roads and public spaces* is a nationally agreed standards document outlining the use of traffic control devices on the road network and has been adopted by all jurisdictions, including VicRoads. This supplement covers the series of following AS/NZS 1158 document below

- AS/NZS 1158 Part 0: Introduction
- AS/NZS 1158 Part 1.1: Vehicular traffic (Category V) lighting – Performance and design requirements
- AS/NZS 1158 Part 2: Computer procedures for the calculation of light technical parameters for Category V and Category P lighting
- AS/NZS 1158 Part 3.1: Pedestrian area (Category P) lighting – Performance and design requirements
- AS/NZS 1158 Part 4: Lighting of pedestrian crossings
- AS/NZS 1158 Part 5: Tunnels and underpasses
- AS/NZS 1158 Part 6: Luminaires

All jurisdictions will be developing their own supplement to clearly identify where its practices currently differ and to provide additional guidance to that contained within AS/NZS 1158 (0-6). This document is the VicRoads supplement and shall be read in conjunction with AS/NZS 1158 (0-6).

1.2 How to Use this Supplement

There are two key parts to this document:

- **Classification of Supplement Information:** this table classifies supplement information as a Departure, Additional Information or both. This information assists with identifying its hierarchy in relation to the Australian Standard.
- **Details of Supplement Information:** this section provides the details of the supplement information.
 - **Departures:** where VicRoads practices differ from the guidance in the Australian Standard. Where this occurs, these differences or 'Departures' will be highlighted in a box. The information inside the box **takes precedence** over the Australian Standard clause. The Australian Standard clause is not applicable in these instances.
 - **Additional Information:** all information not identified as a departure provides further guidance to the Australian Standard and is read and applied **in conjunction** with the Australian Standard clause.

Where a clause does not appear in the body of this supplement, the Australian Standard requirements are followed.

2. Classification of Supplement Information

The classification of each clause as a Departure, Additional Information or both is shown in the table below.

Clause	Classification
All	Additional Information
Part 1.1, clause 3.2.2.3	Additional Information
Part 1.2, clause 8.1.4	Additional Information
Part 1.2, clause B6.5	Departure

Australian Standard requirements are followed for clauses not shown in this table.

3. Details of Supplement Information

AS/NZS 1158 (All parts)

VicRoads policies and guidelines for road lighting are given in TCG006 – Guidelines for street lighting design.

AS/NZS 1158 Part 0: Introduction

No supplementary material.

AS/NZS 1158 Part 1.1: Vehicular traffic (Category V) lighting—Performance and design requirements

Clause 3.2.2.3 Change in carriageway width

(b) Diverging traffic lanes

The Standard requires that “a luminaire of the type used in the design shall be placed within 5 m of the point where the lanes start to diverge.”

VicRoads guidelines are:

- Diverging changes in carriageway width should be lit. However, where this results in a significantly reduced efficiency (i.e. span lengths are reduced below 75% of the maximum that could otherwise be achieved or additional poles are required), the requirements of AS/NZS 1158 shall not apply at the commencement of the divergence.

AS/NZS 1158 Part 1.2: Vehicular traffic (Category V) lighting—Guide to design, installation, operation and maintenance

Clause 8.1.4 Overhang

Where it is demonstrated that the number of poles can be reduced, negative overhang of up to 2 m may be used. This may occur in medians where either a single row of poles instead of a double row of poles is achievable or when lighting narrow carriageways.

Appendix B, clause B6.5

DEPARTURE

Item (d) recommends “that poles not be located in splitter islands or in central medians less than 2 m wide.”

VicRoads guidelines are as follows:

- Frangible lighting poles should not be located in medians less than 1.4 m in width (i.e. 0.7 m setback distance), unless the lighting is part of a concrete crash barrier system.
- In speed environments where speed is less than 80 km/h and lighting cannot be installed on the outside of the carriageway, frangible poles may be located in medians as narrow as 1.2 m in width.
- In speed environments where speed is greater than or equal to 80 km/h, frangible lighting poles should not be located in medians less than 2.0 m in width.

AS/NZS 1158 Part 2: Computer procedures for the calculation of light technical parameters for Category V and Category P lighting

No supplementary material.

AS/NZS 1158 Part 3.1: Pedestrian area (Category P) lighting—Performance and design requirements

No supplementary material.

AS/NZS 1158 Part 4: Lighting of pedestrian crossings

No supplementary material.

AS/NZS 1158 Part 5: Tunnels and underpasses

No supplementary material.

AS/NZS 1158 Part 6: Luminaires

No supplementary material.

Document Information

Title: VicRoads Supplement to AS/NZS 1158.0 - 6 – Edition 1

Department: Network Standards

Directorate: Policy and Programs

Approved by: Jeremy Burdan
Manager – Network Standards

Date of Approval: October 2015

Amendment Record

Edition / Revision	Pages(s)	Issue Date	Amendment Description
AS/NZS 1158.0 – 6 Edition 1	All	October 2015	First Edition

Previous versions of this document are available on request by contacting the VicRoads – Network Standards team.

For enquiries regarding this supplement, please contact the VicRoads – Network Standards team via tem@roads.vic.gov.au or 9854 2417.