

# Street Lighting

## Introduction

This policy will provide a consistent approach to the requirement of street lighting within the Shire of Toodyay and formalises the provision of street lighting within subdivisional areas where street lighting is required.

## Objective

The objective of this policy is to:

- provide general information regarding lighting design and performance standards; and
- provide a consistent approach to the assessment of street lighting requests.

## Scope

This policy applies to all roads, streets and public places lighting under the jurisdiction of the Shire of Toodyay.

## Definitions

Term	Definition
Australian/International Standards	AS/NZS 1158 Set: 2010 Lighting for Roads and Public Spaces
Access Roads	Roads where the main function is to provide access to abutting properties including those used for residential purposes and the vehicle movements per day is less than 3,000.
Pedestrian Access Ways (PAW)	Access ways provided exclusively for pedestrian activity.
Public Place	A place, or that part of a place, that: (a) is open to the public; or (b) is used by the public; or (c) the public is entitled to use; Whether or not on payment of money. (as per section 125(5) of the <i>Local Government Act 1995</i> )
Road	As per section 59 of the <i>Local Government Act 1995</i> : (a) an area of land that is dedicated to public use as a road; or (b) an area of land that:

Term	Definition
	(i) is developed for, or has as one of its main uses, the driving or riding of motor vehicles; and (ii) is open to, or used by, the public; or (c) a footpath or bicycle path; or (d) a bridge, culvert, ford, tunnel or viaduct.
Street	A public thoroughfare, usually paved, in a village, town or city, including the sidewalk or sidewalks.
Shire	Shire of Toodyay

## Policy Statement

### 1. General provisions

- (a) All new street lighting within the Shire is to be installed, in accordance with the current Australian and New Zealand Standards, as outlined in Attachment 1 to this policy.
- (b) All street lighting equipment shall be selected from the Western Power range and all poles shall be painted “Heritage Red.”
- (c) All luminaires shall be “Parkville” or “Bourke Hill” and shall be painted “Heritage Red.”

### 2. Street Lighting within Subdivisions

- (a) Where subdivisions require the installation of street lighting, lighting proposals shall be submitted to the Shire for review and be subject to Shire approval; and lighting shall be consistent throughout the subdivision.
- (b) All lighting equipment shall be consistent with the provisions of this policy.

### 3. Lighting within Public Open Spaces

- (a) The minimum pole height for lighting within Public Open Spaces shall be 4.5m except for the Bega 8200 luminaire, or equivalent luminaire that may be mounted at 3.5m.
- (b) Bollard lighting will not be allowed.
- (c) Any uplighting shall use stainless steel in ground uprights complying with IEC 60598-2 Category C and with 75°C maximum surface temperature (at 40°C ambient).

- (d) Electricity supply shall be controlled from an unmetered supply pit, or from any pump control panel and a seven-day programmable time switch shall control lighting. Off-grid lighting solutions (e.g. solar powered lighting) shall be exempt from this requirement.

## Reference Information

Australian Standard of Public Lighting AS1158

## Version control information

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<b>Document control information</b>	
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## Attachment No.1

Public lighting shall be installed in accordance with the current AS/NZS 1158 using the following table for guidance:

ROAD/AREA	AS/NZS1158 Category	Typical Equipment & Geometry (lamp $\phi$ /height/spacing/width)
Primary and District Distributor A Roads (>15 000vpd) •	V3	250 W HPS/10.5 m/55 m/2 lanes- $\subseteq$
		250 W HPS/9 m/40 m/2 lanes- $\epsilon$
District Distributor B Roads, (6 000-15 000vpd)	V5	150 W HPS/10.5 m/55 m/2 lanes- $\subseteq$
		150 W HPS/9 m/40 m/2 lanes- $\epsilon$
Local Distributor Roads (3 000 – 6 000 v.p.d.)	P3	70 W MH/6.5 m/60 m/20 m road reserve- $\subseteq$
		70 W MH/7.86 m/40m/20 m road reserve- $\epsilon$
Access Roads (<3 000 v.p.d)	P4	70 W MH /6.5 m/60 m/20 m road reserve- $\subseteq$
		70 W MH/7.86 m/80.5 m/20m road reserve- $\epsilon$
PAW's, Laneways (<300 v.p.d.) ÷	P4	70 W MH/5.2 m/40 m/3-5 m laneway
	P5	42 W CF/5.2 m/40 m/3-5 m laneway
Intersections: Distributor Road Access Road Isolated intersections & bends	V3/V5	250 W HPS/10.5 m- $\subseteq$
	P3	70 W MH/6.5 m- $\subseteq$
	P4	70 W MH/6.5 m- $\subseteq$
Local Area Traffic Management Devices	Clause 3.2.6 of AS1158.3.1	3.5 lux, or 25% spacing
Car Parks low use/risk	P11c	42 W CF, 70 W MH or 70 W HPS/6 m
Car Parks medium use/risk	P11b white light	70 W MH/6 m/15 m X 17 m
Car Parks high use/risk	P11a white light	150 W MH/6 m/15 m X 17 m
Car Parks (disabled bays)	P12 white light	150 W MH/6 m
Pathways in Passive Open Spaces	P4	70 W MH/6.5 m/60 m, 42 W CFL/4.5 m/30 m, or 70 W MH Bega 8200/3.5 m

### Notes:

- $\subseteq$  HPS = high pressure sodium, MH = metal halide, MV = mercury vapour, CF = compact fluorescent.
- $\epsilon$  Pedestrian/vehicle conflict and presence of heavy vehicles also influences selection of V3/V5.
- $\subset$  Busy PAW's P4, quiet PAW's P5.
- $\subseteq$  Underground power
- $\epsilon$  Overhead power



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