

General Outdoor Lighting B160.01



DESIGN STATEMENT

General outdoor lighting is used to illuminate corridors through open space & parks, civic spaces, carparks and general public infrastructure as required. The LED light provides high efficiency & reliability.

APPLICABLE LOCATION

Corridors through open space and parks, bike paths, car parks, civic space, forecourts, etc. Refer to cable specification in different locations.

COUNCIL STANDARD DRAWING

B160.01 Park, Open Space & General Lighting

CROSS REFERENCE DOCUMENT

- AS 1158.6 Lighting for Roads and Public Spaces (Part 6: Luminaires), Category *P4 for pedestrian corridors or open space. Category P11 (A, B, or C) for car parks
 - *Higher light levels may be used in civic spaces on a case by case basis where approved by the public lighting officer

GENERAL NOTE

1. Cable:

- Parks and open spaces:** ELV (Extra low voltage) underground cable 6mm² using 24vDC – 48vDC (preferred). Longer cable runs 10mm² cable will be required (where lower voltage is used & distance from power supplies to fixture has increased resulting in excessive voltage drop or higher current)
 - Carparks, new buildings and fixed infrastructures:** Standard LV electrical design may be used where construction occurs in conjunction with a new building or fixed infrastructure with a new metered power supply. Refer to AS3000 for LV installation.
- Conduit:** All cable to be installed within 25-32mm HD conduit.
 - Recess depth (for ELV):** 250-300mm with onsite backfill. Topped with soil and seeds as specified by Council
 - DC power supplies:** Constant Voltage/ Constant current power supplies IP65 LED located within a locked MCC meter Box.
 - Timer/RCD reset device:** All installations to implement a programmable logic controller (auto daylight saving & timer settings) and 1 x Stop and go RCD resetting device.
 - Refer to lighting manufacturer's installation manual

STANDARD SPECIFICATION

Luminaire: RFL530-SE (LED) from WE-EF. 'Classic Silver' 2-pack paint finish or black when requested or where required.

Light distribution & colour temperatures: Lenses for light distribution will need to be specified for each project. Colour temperatures of 4000K will need to be specified for each project. 3000K may also be used where required and specifically approved by the public lighting officer.

Pole & Height: Tapered round and hot-dip galvanised finish or unless specified, 'Classic Silver' 2-pack paint finish. Satin black paint may also be applied if approved by Council. Minimum luminaire mounting height will be 6 metres.

Cable, conduit, recess depth, power supplier & timer: Refer to General Notes.

SUPPLIERS (Similar approved suppliers can also be used)

Luminaire: WE-EF www.we-ef.com.au

Distributor: Buckford Illumination www.buckford.com.au

Pole: Merri-bek City Council custom pole design from Saferoads or Vicpole

Cable: Middendorp, L&H or any electrical wholesaler

Timer/RCD device: NHP plc, Legrand stop & go reset, Schneider

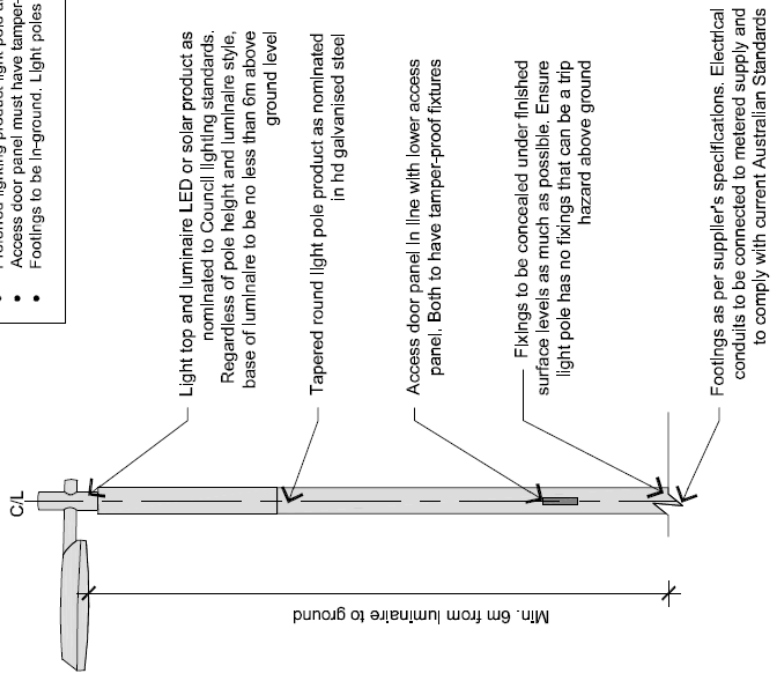
Power Supplies: Mean Well

MAINTENANCE

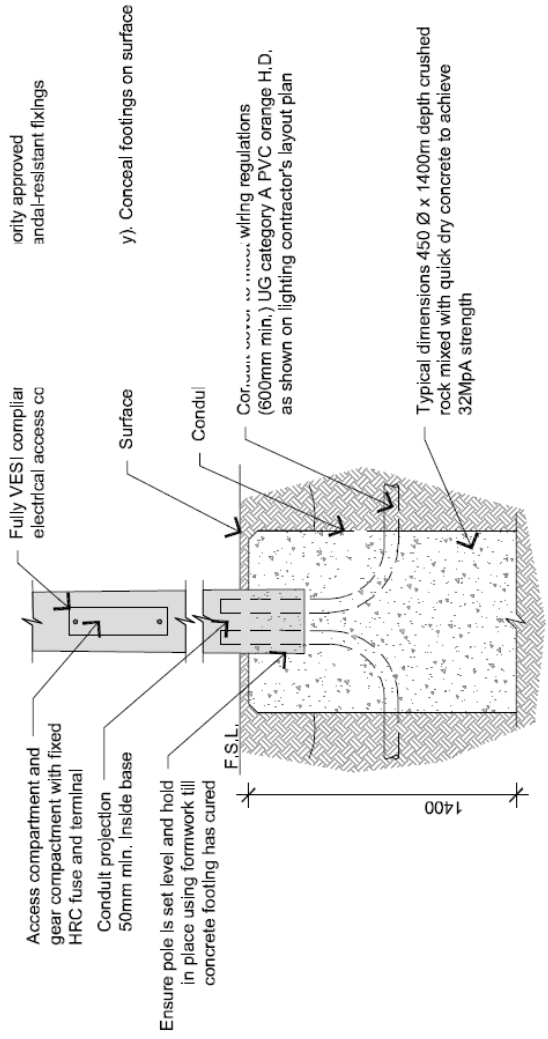
All park, open space & general lighting is metered lighting (other than solar lighting) and is maintained and repaired by Council's electrical contractor and managed and monitored by Council (Public Lighting Officer). Refer to MCC Public Lighting Map.

B160.01 General Outdoor Lighting

- Notes:**
- Outdoor lighting is only provided to illuminate footpaths and shared trails and car parks, not in general to be provided for reserve areas or playspaces. This detail does not cover sports lighting, being a more specialist field that has to be designed for a given site.
 - The nominated lighting product and height must be appropriate for the given area and for the light coverage required. The minimum mounting height is 6m from ground level to base of luminaire.
 - The location of the light pole must not impede any pedestrian access, pathways or other service assets including pits.
 - Pedestrian park lighting must be independently metered separately from street lighting.
 - Only a certified lighting Contractor is authorised to connect light poles to an existing switchboard and meter panel. Warranty and certifications must then be provided to Council.
 - Preferred lighting technology is LED or solar. Various luminaire lighting colours can be nominated.
 - Preferred lighting product light pole and luminaire can vary but must be approved by Council.
 - Access door panel must have tamper-proof fixings.
 - Footings to be in-ground. Light poles to be hot dipped galvanised steel. Where light top/luminaire metals differ from each other, provide a separator layer to avoid metal corrosivity.



01 TYPICAL OUTDOOR LIGHTING
Elevation
NTS



02 TYPICAL OUTDOOR LIGHTING FOOTING
Cross Section
NTS