

**PART R51**  
**SUPPLY OF LUMINAIRES**

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**1. GENERAL**

- .1 This Part specifies the requirements for the supply of luminaires.
- .2 The luminaire shall be type tested and demonstrated to comply with:
  - (a) AS 3137 Approval and Test Specification - Luminaires
  - (b) AS 3771 Road Lighting Luminaires with Integral Control Gear
  - (c) AS 4051 Limits and Methods of Measurement of Radio Disturbance Characteristics of Electrical Lighting and Similar Equipment

**2. LUMINAIRE REQUIREMENTS**

- .1 The luminaire shall be provided with a positive long life seal between reflector-refractor and socket-reflector junctures to prevent the entry of moisture and foreign matter giving at least IP54 degree of protection.
- .2 The housing and the refractor ring shall each be a one-piece aluminium casting. The refractor holder assembly shall hinge open at least 90° to give easy access to the optical system.
- .3 Access to the terminals shall be by a hinged one-piece cast aluminium door. Any hinged parts shall be secured such that they will withstand high velocity wind in the open position.
- .4 The luminaire shall consist of housing, slipfitter, reflector, refractor holder, lamp socket and mounting pipe stop.
- .5 All catches, cotter pins, clamps, adjustment screws and accessories shall be made of corrosion resistant metals equal to stainless steel grade M0316. All other external metal parts shall be protected with a baked enamel finish.
- .6 The slipfitter shall have provision to be adjusted between 5° up and 3° down from the horizontal plane.

**3. REFLECTOR**

- .1 The reflector shall be of aluminium sheet of such grade and quality as to meet the following requirements:
  - (a) The reflecting surface shall be specular and contour designed; and
  - (b) The reflection factor as determined by a suitable reflectometer shall not be less than 82%.

**4. HOLD POINTS**

- .1 There are no Hold Points referenced in this Part.