

PART R51
SUPPLY OF LUMINAIRES

CONTENTS

1. General
2. Luminaire Requirements
3. Reflector

1. GENERAL

This Part specifies the requirements for the supply of luminaires.

The luminaire must be type tested and demonstrated to comply with:

AS 3137	Approval and Test Specification - Luminaires
AS 3771	Road Lighting Luminaires with Integral Control Gear
AS 4051	Limits and Methods of Measurement of Radio Disturbance Characteristics of Electrical Lighting and Similar Equipment

2. LUMINAIRE REQUIREMENTS

The luminaire must 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.

The housing and the refractor ring must each be a one-piece aluminium casting. The refractor holder assembly must hinge open at least 90° to give easy access to the optical system.

Access to the terminals must be by a hinged one-piece cast aluminium door. Any hinged parts must be secured such that they will withstand high velocity wind in the open position.

The luminaire must consist of housing, slipfitter, reflector, refractor holder, lamp socket and mounting pipe stop.

All catches, cotter pins, clamps, adjustment screws and accessories must be made of corrosion resistant metals equal to stainless steel grade M0316. All other external metal parts must be protected with a baked enamel finish.

The slipfitter must have provision to be adjusted between 5° up and 3° down from the horizontal plane.

3. REFLECTOR

The reflector must be of aluminium sheet of such grade and quality as to meet the following requirements:

- (a) The reflecting surface must be specular and contour designed; and
 - (b) The reflection factor as determined by a suitable reflectometer must not be less than 82%.
-