Chapter 33

CABIN ROOF LAMPS, THORN TYPE

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LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Cabin roof lamp, Thorn Part No. 80/10/1148*A* (*deep*)	*Ref. No.* 5*CX*/5511
Cabin roof lamp, Thorn Part No. 80/10/1148*B* (*shallow*)	*Ref. No.* 5*CX*/5575
Filament lamp 28 *volt* 7 *watt, dark blue S.C.C.* ..	*Ref. No.* 5*L*/9953243
Filament lamp 28 *volt* 18 *watt frosted S.C.C.* ..	*Ref. No.* 5*L*/9953273
Overall dimensions (*deep units*)	$13\frac{5}{8}$ *in.* × $6\frac{1}{8}$ *in.* × $3\frac{5}{8}$ *in.*
Overall dimensions (*shallow units*)	$13\frac{5}{8}$ *in.* × $6\frac{1}{8}$ *in.* × $2\frac{9}{16}$ *in.*
Weight	1·23 *lb.*

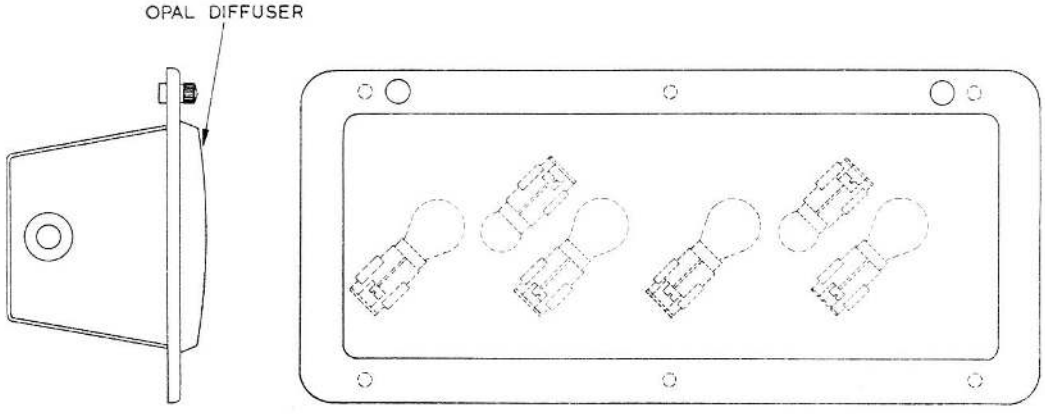

Fig. 1. Side and front views of cabin roof lamp

Introduction

1. The Thorn cabin roof lamps are flush mounting roof lamps which are usually used to provide general cabin illumination from four white filaments, and reduced illumination from two blue filaments. The total wattage of the filament lamps fitted in the unit must not exceed 100 watts, and within this limitation the lamp may be used with any suitable S.C.C. filament lamps or adapted into red/white cockpit illumination where necessary. The lamp illustrated and described in this chapter is the Thorn Type 80/10/1148A, the other lamps are identical other than in the depth of the fitting, details of which are given in the Leading Particulars.

DESCRIPTION

2. The lamp, shown in fig. 1, consists of a rectangular light alloy base with an opal diffuser screen mounted in an alloy frame which is hinged to the base and held closed by two knurled screws. Six S.C.C. lamp holders are riveted to the base, and in standard roof lamps are fitted with four 28 volt 18 watt frosted filaments and two 28 volt 7 watt blue filaments. The supply cables are routed through a grommet at one end of the base and connect to the base contact screw of the lamp holders, the base is used as the earth return. The interior of the light alloy base is finished in white enamel and serves as a reflector, provision for cooling is made by ventilation holes in the wall of the base.

SERVICING

3. The servicing of the cabin roof lamps is confined to the renewal of filament lamps, complete assemblies, and the diffuser screen. The diffuser screen may be removed by carefully bending up the two retaining tabs on the thumbscrew side of the frame, when a new diffuser screen has been fitted in position the tabs should then be bent back to their original position.

Insulation resistance test

4. The insulation resistance measured with a 250 volt insulation resistance tester between all the lamp holder contacts connected together and the metal fitting should be not less than 5 megohms.