

Chapter 23

CABIN ROOF LAMP, G.E.C., TYPE F.M.1949

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LEADING PARTICULARS

<i>Roof lamp, G.E.C., Type FM1949</i>	<i>Ref. No. 5CX/4295</i>
<i>Lamp filament, S.B.C. cap, 28V, 18 watt</i>	<i>Ref. No. 5L/9953278</i>
<i>Diameter of flange</i>	$5\frac{3}{8}$ in
<i>Height</i>	2 in
<i>Weight</i>	8 oz

Introduction

1. The cabin roof lamp, G.E.C., FM1949 shown in fig. 1, is designed for flush mounting in the cabin roof to provide general illumina-

tion in the cabin. A number of lights are normally installed in the cabin roof and are controlled by switches conveniently placed at the cabin door.

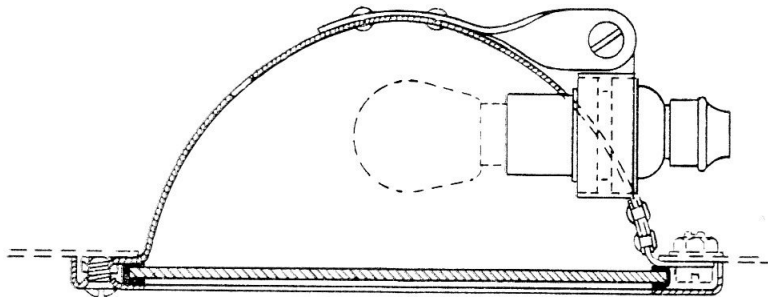


Fig. 1 Sectional view of roof lamp

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DESCRIPTION

2. The lamp consists of a polished aluminium reflector which incorporates the mounting flange and accommodates the lamp filament, lamp holder, front glass and retaining ring. The mounting flange has three 2 B.A. clearance holes, to take suitable 2 B.A. screws by which the lamp is secured to the airframe structure, and carries three 2 B.A. tapped bushes to accommodate the retaining ring securing screws. Riveted to the reflector is the lampholder bracket. Provision for cooling is made by $\frac{3}{16}$ in. vent holes in the reflector.

3. Secured to the end of the bracket is the lampholder clamp, the small bayonet cap lampholder is held by the clamp in the aperture in the reflector. The lampholder is

constructed of nickel-plated brass and has a cord grip cable entry. The reflector is closed by a sandblasted front glass which is fitted with a channel section rubber sealing ring and is retained by the retaining ring.

SERVICING

4. The lamp should be inspected for security of attachment and freedom from damage or corrosion. The lampholder contacts should be checked for freedom of movement and inspected for signs of burning or pitting, the lampholder should be renewed if the contacts are sluggish in movement or are pitted or badly burnt due to arcing. The cable at the lampholder connections should be inspected for signs of deterioration or overheating, and should be remade if required.

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