

While the price of the OSIRA Mains Voltage Fluorescent Tubular Lamp is as shown, all other prices in this publication are subject to an increase of 10% at the date of going to press. All prices are subject to further increases without notice.



# OSIRA

**MAINS VOLTAGE  
FLUORESCENT  
TUBULAR LAMP**

# OSIRA

Regd. Trade Mark.

## MAINS VOLTAGE FLUORESCENT TUBULAR LAMP

The new 5 ft. OSIRA Mains Voltage Fluorescent Tubular Lamp is an addition to the already well-known range of OSIRA Lamps used for streetlighting and for many industrial and commercial applications. It has been introduced, after many years of intensive research, to fulfil the ever-recurring desire of architects and engineers, for a linear light source that has

**NATURAL WHITE COLOUR—HIGH EFFICIENCY—LOW SURFACE  
BRIGHTNESS—LONG LIFE—and, moreover, is COOL BURNING.**

The new OSIRA Fluorescent Tubular Lamp combines all these requirements. Its applications in the sphere of modern lighting, either as an illuminant or a decorative unit, are many. Though it is installed, operated and maintained at very reasonable cost, it provides pleasant and effective light throughout its long life. Here is a lamp in fact, that architect or engineer, factory owner or store manager, hotel or theatre proprietor, in fact any executive responsible for lighting installations, can utilise. All can specify and use this lamp with full confidence—confidence inspired by the reputation for reliability belonging to all products of the G.E.C.

### **Colour.**

OSIRA Fluorescent Tubular Lamps are coated with a lining of fluorescent phosphors that provide a light nearer to natural daylight than any other high-efficiency light source. This light facilitates colour discrimination and close inspection work in industrial processes. It is, moreover, of particular value in revealing goods, in their most natural and effective form, displayed for sale to the public.

### **Efficiency.**

Like all discharge lamps, OSIRA Fluorescent Tubular Lamps give very efficient lighting. The combination of fluorescent powder and mercury vapour gas ensures that an 80-watt lamp of this type will provide as much light as a 200-watt tungsten lamp. This means more light without increased current costs, or the same quantity of light at a third of the operating cost.

### **Coolness.**

For a given light output the heat radiated by OSIRA Fluorescent Tubular Lamps amounts to only 50% of that given by a filament lamp. Not only are working conditions therefore made more comfortable, but also the load on cooling plant is relieved. In the illumination of delicate materials or perishable goods, this point is especially important.

### **Surface Brightness.**

Because the light is spread over a large area and the surface brightness is very low, the resultant light is well diffused and shadowless. The lamp can be used for direct lighting without causing glare in industrial situations, as the surface brightness is within the limits prescribed by the new Factory Act. In such places as stores, places of entertainment or large public buildings, this advantage also permits them to be used decoratively without impairing efficiency.

### **Long Life.**

The approximate life of OSIRA Fluorescent Tubular Lamps is 2,000 hours. This is about twice as long as that of a filament lamp.

### **Linear Source.**

The light given is evenly diffused along the length of the lamp. This distribution is ideal when the lamp is installed over benches or machines in workshops, or when fitted above counters.

### **Mains Operation.**

OSIRA Fluorescent Tubular Lamps are designed for operation on A.C. Mains of 200/250 volts. They are safe to install, the only auxiliaries necessary being a simple choke and starting unit. Should the power factor need correction a small condenser may be required.

***It will be seen that OSIRA Mains Voltage Fluorescent Tubular Lamps have applications in every sphere of industry and commerce. As yet these lamps are newcomers to the field of lighting. Experience will reveal the full possibilities of this new form of illumination. The G.E.C. Illuminating Engineers will gladly assist, without obligation, anyone interested in planning an installation employing these new lamps.***

# OSIRA

## MAINS VOLTAGE FLUORESCENT TUBULAR LAMP

A **S.E.C.** PRODUCT



### TECHNICAL DATA

Nominal Lamp Watts	...	...	...	...	80 watts
Nominal Lamp Amperes	...	...	...	...	0.75 amperes
Colour	...	...	...	...	White (A)
Initial Lumens per watt	...	...	...	...	35 L.P.W.
Nominal Lumens	...	...	...	...	2,800 lumens
Power Factor running with Condenser (230 volts)					.83
Power Factor running without Condenser (230 volts)					.5
Overall Length	...	...	5 ft.—1,524 mm	(±25 mm)	
Diameter	...	...	1½ in., 38 mm	(±1.5 mm)	
Type of Cap	...	...			2-pin 2-contact B.C.
Life in hours	...	...			2,000 hours approx.
Supply Voltage	...	...			200/250 volts

Price **36/6**

200/210, 220, 230, 240/250 volts, A.C. only.

### AUXILIARY GEAR

The gear required for use with OSIRA Fluorescent Tubular Lamps comprises a standard 80-watt choke, a starting switch and a radio interference suppressor condenser of which the details are given below.

<b>F.16812.</b>	G.E.C. Open protected type choke	each	<b>£1 15 8</b>
<b>F.16912.</b>	G.E.C. Starting switch	...	<b>7 0</b>
<b>F.16913.</b>	G.E.C. .05 m.f. condenser	...	<b>1 4</b>

The above starting switch and .05 m.f. condenser can be supplied mounted in a box container and wired to a small terminal block, under Cat. No. F.16911.

<b>F.16911.</b>	G.E.C. Starter unit	...	each <b>11 4</b>
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Where individual power factor correction to .8 is required, a condenser of 7½ m.f. capacity (Cat. No. F.16841, Price **8s. 4d.**) is recommended.

It should be noted that all the above gear is mounted in the lighting fitting shown overleaf.

**NOTE.** **F.16801** wax-filled choke, Price **£1 18 0**, can be used as alternative to **F.16812** above.

# G.E.C.

## Fitting for

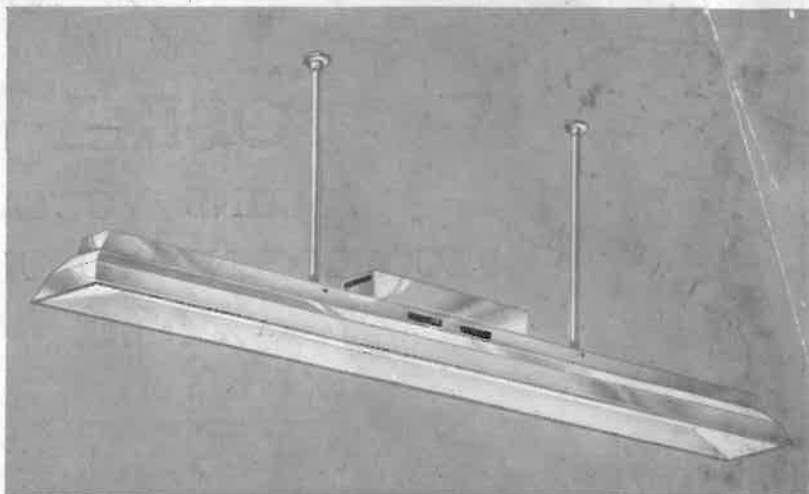
# OSIRA

## MAINS VOLTAGE

# FLUORESCENT

# TUBULAR LAMP

For use in conjunction with the 80-watt fluorescent tubular lamp, the G.E.C. has designed a special trough reflector. This fitting, which is the outcome of consultation between the Research Laboratories and Illuminating Engineering Designers of the Company has special features which ensure the best possible results under service conditions.



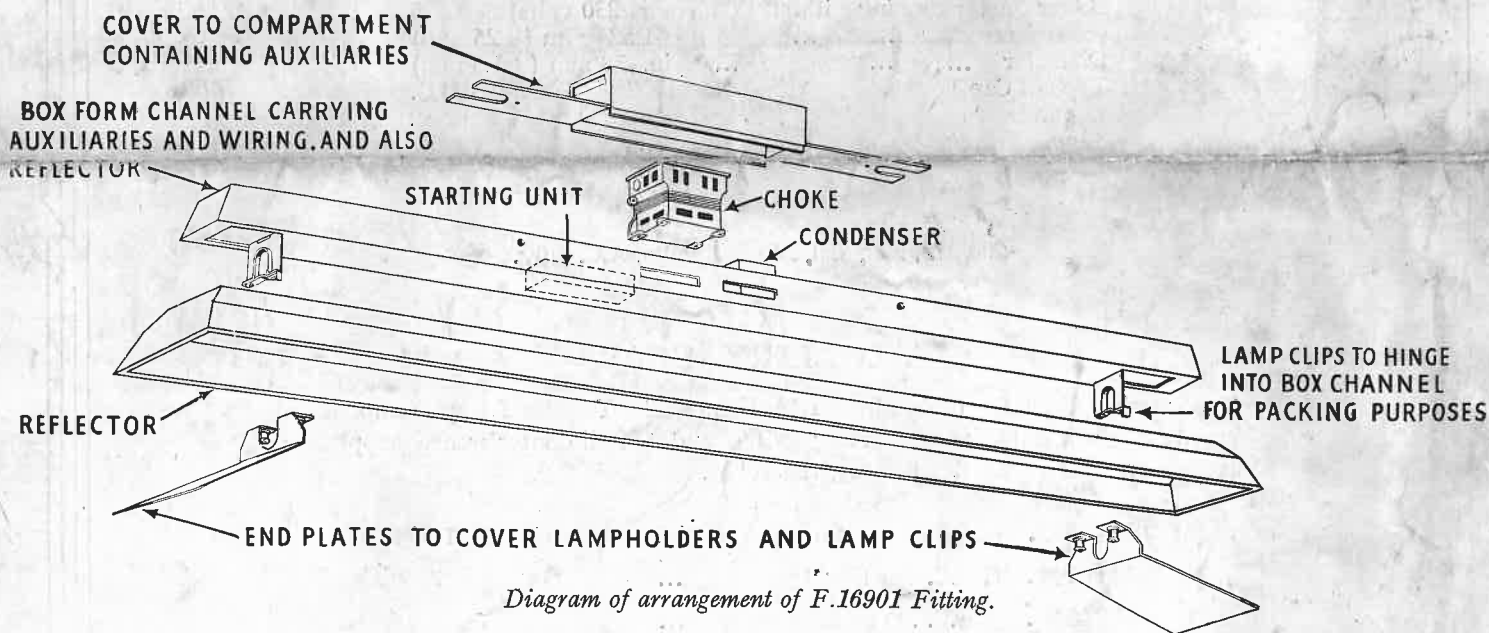
**F.16901.** Trough reflector constructed in heavy gauge lead coated sheet steel, finished stoved white synthetic heat resisting enamel inside, and silver enamel outside with provision for two-way tube suspension, or four-way chain suspension, but excluding suspension.

Price includes wiring and assembly of all Auxiliary Gear, except Choke.

Fitting only, without Auxiliary Gear ... .. Price **£5 17 6**

Set of Auxiliary Gear as page 3, comprising F. 16812 Choke, F.16911 Starter Unit, F.16841 Condenser.

Price **£2 15 4**



### The Features include :

- Contour to ensure good distribution of light either for local lighting over benches, or for general illumination of large areas.
- Specially tested enamel to ensure high reflection factor without discoloration in service.
- Simplicity of assembly and accessibility of all parts.
- All Auxiliary Gear, except choke, assembled and wired in reflector canopy before delivery.
- Pleasing appearance of silver exterior finish.

*Manufacturers, Wholesale Only*

## THE GENERAL ELECTRIC CO., LTD.,

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Cablegrams: "Polyphase, London."

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