



A. E. I. LAMP & LIGHTING CO. LTD

SfB (64)

UDC 621.32

# TUNGSTEN FILAMENT PROJECTOR LAMPS CLASS 'F'

## GENERAL DESCRIPTION

Class F Projector Lamps consist essentially of a coiled tungsten filament of concentrated form operating within a glass bulb in an atmosphere of inert gas.

The principal features of Class F lamps are:

Concentrated light source.

High light output.

Small physical dimensions.

The low voltage for which they are designed enables them to be operated from a battery, or alternatively from mains supply in conjunction with a suitable resistance on d.c., or a transformer on a.c.

The types detailed on this data sheet do not include those listed in BS 1522.

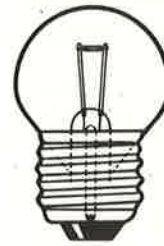
For details of lamps listed in BS 1522 see Data Sheet 84-100.

## APPLICATIONS

Microscope illumination and various optical purposes.

## Standard ratings and types

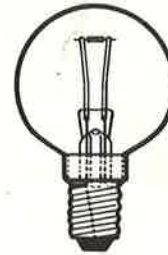
Lamp Ref No	Watts	Volts	Cap	AEI Product No
F/79	8	4	P15d	84-0108
F/29	18	6	SBC	84-0701
F/24	24	6	ES	84-0805
F/82	24	6	BC	84-0808
F/83	24	6	BC	84-0810
F/11	24	12	SES	84-0825
F/23	30	6	ES	84-1005
F/25	30	6	ES	84-1002
F/41	30	6	SBC	84-1011
F/56	30	6	ES	84-1009
F/80	30	6	BC	84-1013
F/84	36	6	P15s	84-1151
F/85	36	12	P15d	84-1175
F/52	48	6	SES	84-1252
F/58	48	6	SES	84-1256
F/81	48	6	P15s	84-1258
F/7	48	8	SES	84-1275
F/9	48	8	SES	84-1278
F/76	50	12	BA20s	84-1312
F/77	50	12	SES	84-1310
F/63	100	12	MPF	84-2022
F/78	100	24	ES	84-2115



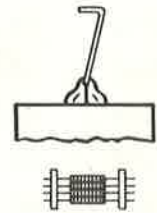
SC TRANSVERSE  
FILAMENT  
F/24 6V. 24W. ES.



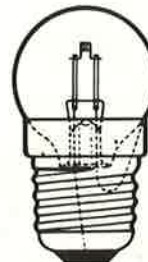
SC TRANSVERSE  
FILAMENT  
F/7 8V. 48W. SES.



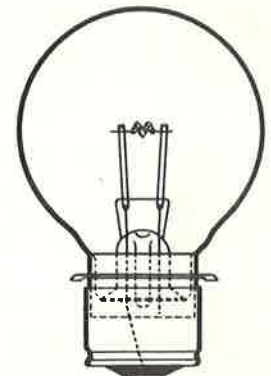
SOLID SOURCE



F/58 6V. 48W. SES.



SC TRANSVERSE  
FILAMENT  
F/25 6V. 30W. ES.



CC TRANSVERSE  
FILAMENT  
F/63 12V. 100W. MPF

**PHYSICAL AND ELECTRICAL CHARACTERISTICS**

Lamp Ref No	Watts	Volts	Cap	Dimensions (mm)			Nominal Lumens	Objective Life (Hours)	Filament Formation	Burning Position	AEI Product No
				Diameter	O/L	LCL					
F/79	8	4	Small PF P15d	15 <sup>+1.0</sup> <sub>-0.2</sub>	38±2	24 ±0.5	96	100	SC Transverse	2	84-0108
F/29	18	6	SBC B15d	25±1	46±2.5	28.5 ±1.5	270	100	SC Transverse	1	84-0701
F/24	24	6	ES E27	38±2	57±5	10 ±2†	408	100	SC Transverse	2	84-0805
F/82	24	6	BC B22d	38±2	60 max	40 ±3	380	100	SC 2mm Trans	2	84-0808
F/83	24	6	BC B22d	38±2	60 max	40 ±3	380	100	SC 6mm Trans	2	84-0810
F/11	24	12	SES E14	39±1	60±5	41 ±3	432	100	SC Transverse	2	84-0925
F/23	30	6	ES E27	35±2	63±5	10 ±2†	420	200	SC Transverse	2	84-1000
F/25	30	6	ES E27	35±1	63±5	10 ±2†	585	25	SC Transverse	2	84-1002
F/41	30	6	SBC B15d	35±1	58±5	40 ±2.5	630	25	SC Transverse	1	84-1011
F/56	30	6	ES E27	38±1	65±5	7 ±2†	420	200	Solid Source	2	84-1009
F/80	30	6	BC B22d	38±1	53±5	7 ±2†	420	200	Solid Source	2	84-1013
F/84	30	6	Small PF P15s	32±1	50±4	22.25±0.5	590	100	SC Transverse	3	84-1151
F/85	36	12	Small PF P15d	38±1	58±3	28.5 ±0.5	575	100	SC 'V'	3	84-1175
F/52	48	6	SES E14	35±1	62±3	49 ±2	792	100	SC Transverse	3	84-1252
F/58	48	6	SES E14	38±1	60±5	53 ±5	672	200	Solid Source	2	84-1256
F/81	48	6	Small PF P15s	38±1	58±5	41 ±0.5	700	200	Solid Source	2	84-1258
F/7	48	8	SES E14	39±1	60±5	41 ±3	960	100	SC Transverse	3	84-1275
F/9	48	8	SES E14	39±1	65±3	47 ±2	960	100	SC Transverse	3	84-1278
F/76	50	12	Bosch BA20s	39±1	69±3	33 ±0.25	950	50	SC Transverse	3	84-1312
F/77	50	12	SES E14	39±1	67±3	48 ±3	950	50	SC Transverse	3	84-1310
F/63	100	12	MPF P28s	60±1	90±5	35.5 ±0.5	2200	100	CC Transverse	3	84-2022
F/78	100	24	ES E27	60±1	85±5	55 ±5	2200	100	CC Transverse	3	84-2115

† LCL measured from crown of bulb.

**PREFERRED BURNING POSITION**

- 1 Any.
- 2 Horizontal.
- 3 Any except vertical cap up.

**OPERATING CONDITIONS**

Owing to the high filament temperature at which these lamps are designed to operate it is important that the supply voltage does not exceed the voltage marked on the lamp. Failure to observe this precaution will have an adverse effect on lamp life.

The company reserve the right to change without notice the design or the specification of equipment included in this Publication and supplied by them.