

Vacuum Phototube

SIDE-ON TYPE HAVING S-4 RESPONSE

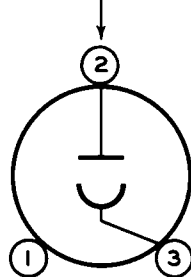
DATA

General:

Spectral Response	S-4
Wavelength of Maximum Response.	4000 $\pm$ 500 angstroms
Cathode:	
Shape	Semicylindrical
Minimum projected length ^a	11/16"
Minimum projected width ^a	7/16"
Direct Interelectrode Capacitance (Approx.)	1.5 μ f
Maximum Overall Length.	2-13/32"
Maximum Seated Length	1-15/16"
Seated Length to Center of Cathode.	1-1/4" $\pm$ 3/32"
Maximum Diameter.	0.669"
Operating Position.	Any
Weight (Approx.)	0.4 oz ←
Bulb.	T5-1/4
Socket.	Amphenol No.78S3S-T, or equivalent ←
Base.	Small-Shell Peewee 3-Pin (JEDEC No.A3-1)
Basing Designation for BOTTOM VIEW.	2F

DIRECTION OF LIGHT

Pin 1—No Internal
Connection



Pin 2—Anode
Pin 3—Photocathode

Maximum Ratings, Absolute-Maximum Values:

ANODE-SUPPLY VOLTAGE			
(DC or Peak AC)	250 max.	volts	
AVERAGE CATHODE-CURRENT DENSITY ^b	30 max.	μ a/sq. in.	
AVERAGE CATHODE CURRENT ^b	4 max.	μ a	
AMBIENT TEMPERATURE	75 max.	$^{\circ}$ C	

Characteristics:

With an anode-supply voltage of 250 volts

Min. Median Max.

Sensitivity:

Radiant, at 4000 angstroms.	—	0.029	—	amp/watt
Luminous ^c	19	30	75	μ a/lumen
Anode Dark Current at 25 $^{\circ}$ C	—	—	0.005	μ a

← Indicates a change.



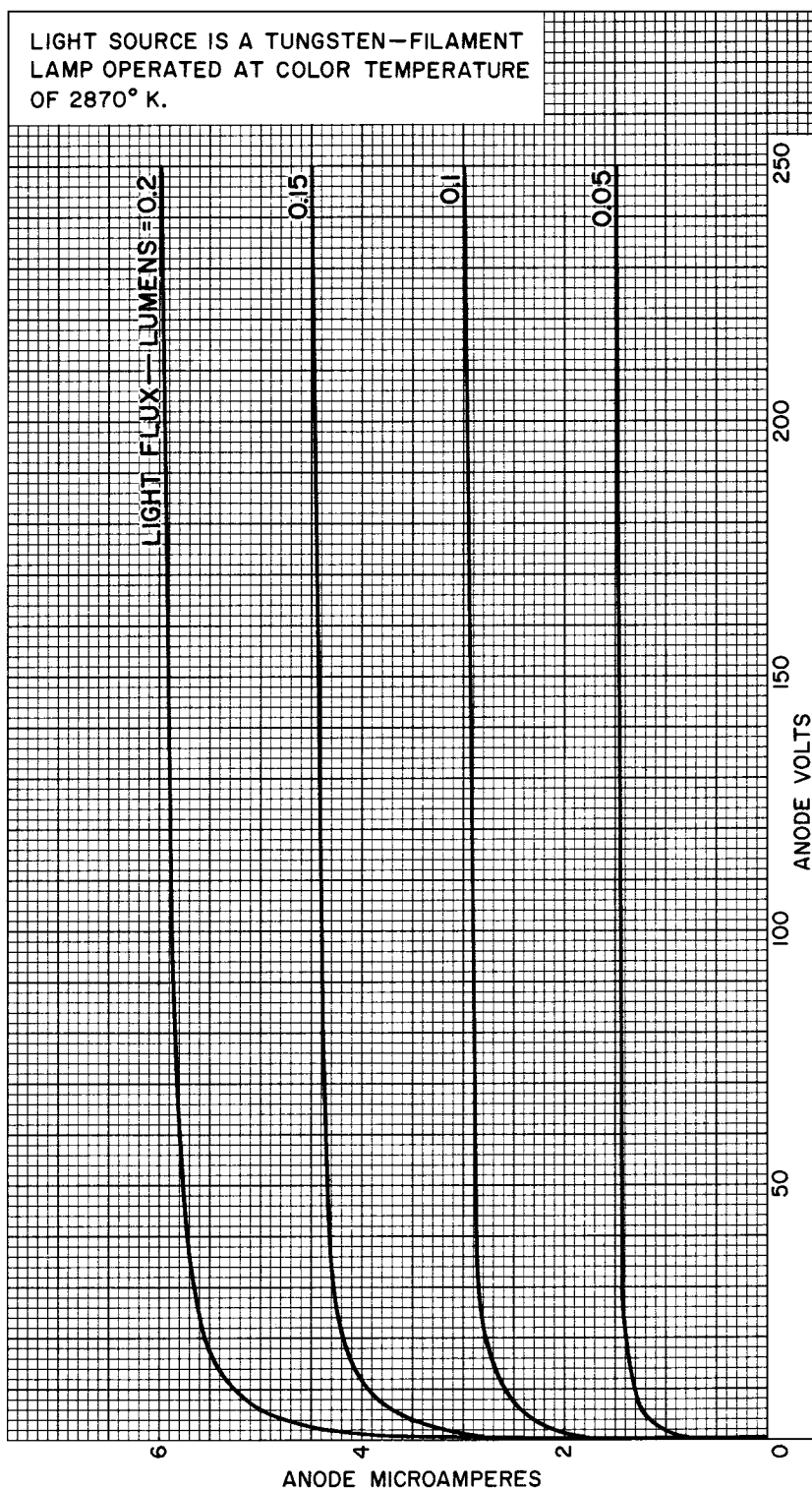
- a** On plane perpendicular to indicated direction of incident light.
- b** Averaged over any interval of 30 seconds maximum.
- c** For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870° K. A 1-megohm load resistor and a light input of 0.1 lumen are used.

**SPECTRAL-SENSITIVITY CHARACTERISTIC
OF PHOTOSENSITIVE DEVICE HAVING S-4 RESPONSE**
is shown at the front of this section

DIMENSIONAL OUTLINE
shown under Type 927 also applies to the 934

AVERAGE ANODE CHARACTERISTICS

LIGHT SOURCE IS A TUNGSTEN-FILAMENT
LAMP OPERATED AT COLOR TEMPERATURE
OF 2870° K.



92CM-6479RI

