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VACUUM PHOTOTUBE

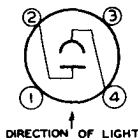
LOW-MICROPHONIC TYPE WITH S-I RESPONSE

DATA**General:**

Spectral Response S-1
Wavelength of Maximum Response. 8000 ± 1000 angstroms
Cathode:
 Shape Semicylindrical
 Minimum projected length* $1-1/4"$
 Minimum projected width* $5/8"$
Direct Interelectrode Capacitance $3 \mu\text{mf}$
Overall Length. $4-5/16" \pm 1/8"$
Seated Length $3-11/16" \pm 1/8"$
Seated Length to Center of Cathode $2-1/8" \pm 3/32"$
Maximum Diameter. $1-1/8"$
Mounting Position Any
Weight (Approx.). 1.3 oz
Bulb. T-8
Base. Dwarf-Shell Small 4-Pin (JETEC No. A4-26),
Non-hygroscopic

BOTTOM VIEW

Pin 1 - No
 Connection
Pin 2 - Anode



Pin 3 - No
 Connection
Pin 4 - Cathode

Maximum Ratings, Absolute Values:

ANODE-SUPPLY VOLTAGE
 (DC or Peak AC) 500 max. volts
AVERAGE CATHODE-CURRENT DENSITY^o. 25 max. $\mu\text{amp/sq. in.}$
AVERAGE CATHODE CURRENT^o. 5 max. μamp
AMBIENT TEMPERATURE 100 max. $^{\circ}\text{C}$

Characteristics at 250 Volts on Anode:

	Min.	Av.	Max.	
Sensitivity:				
Radiant at 8000 angstroms	-	0.0027	-	$\mu\text{amp}/\mu\text{watt}$
Luminous*	20	30	40	$\mu\text{amp}/\text{lumen}$
Sensitivity Difference Between				
Highest Value and Lowest				
Value Along Cathode Length [▲]	-	-	4.5	$\mu\text{amp}/\text{lumen}$
Anode Dark Current at 25 $^{\circ}\text{C}$	-	-	0.013	μamp

* On plane perpendicular to indicated direction of incident light.

o Averaged over any interval of 30 seconds maximum.

For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870 $^{\circ}\text{K}$. A dc anode supply of 250 volts, a 1-megohm load resistor, and a light input of 0.1 lumen are used.

▲ Measured under the same conditions as indicated under (#) with light input of 0.1 lumen and a light spot 1/2 inch in diameter.

MAR. 1, 1955

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

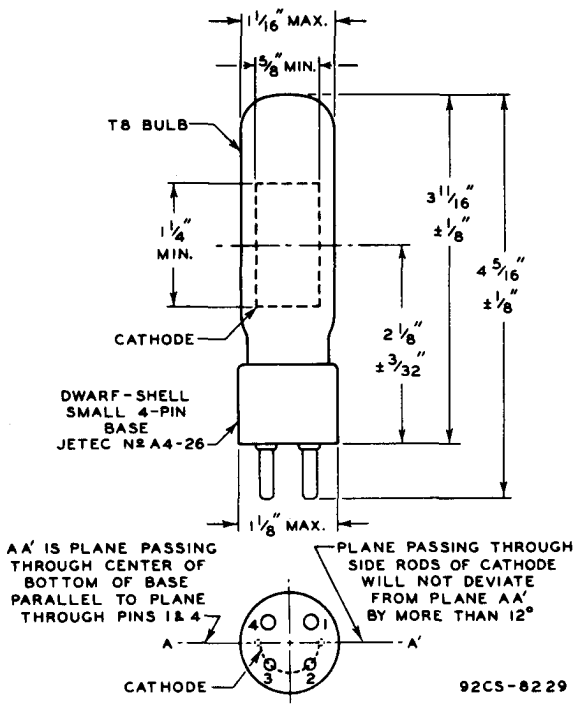
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SPECTRAL-SENSITIVITY CHARACTERISTIC
of Phototube having S-1 Response
is shown at the front of this Section

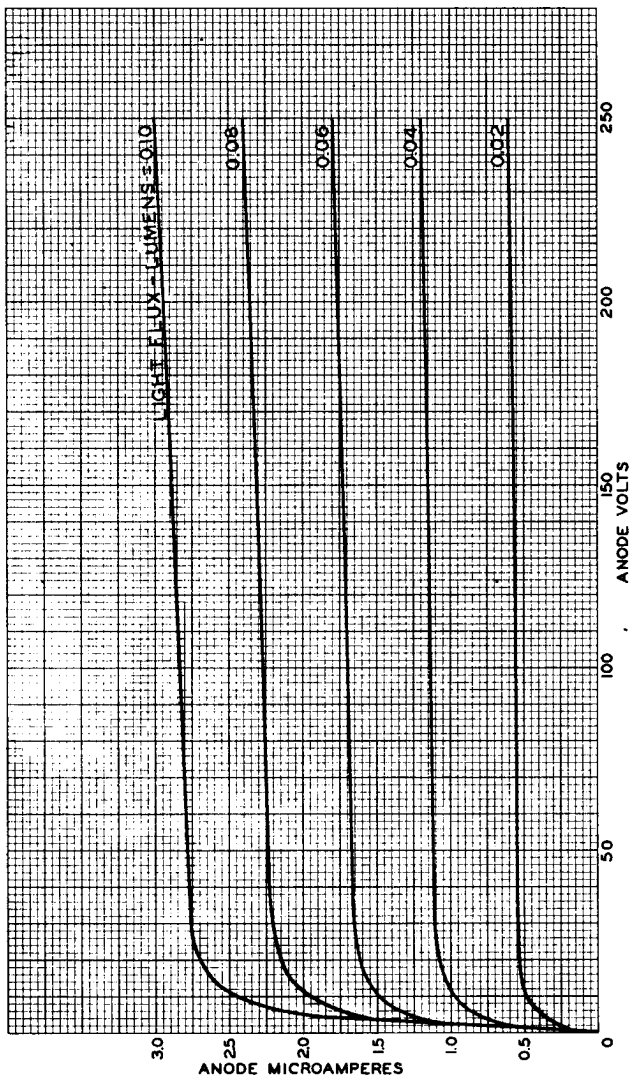




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AVERAGE ANODE CHARACTERISTICS



DEC. 3, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM - 8491