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VACUUM PHOTOTUBE

LOW-MICROPHONIC TYPE WITH S-I RESPONSE

DATA

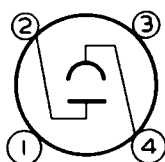
General:

Spectral Response	S-1
Wavelength of Maximum Response	8000 $\pm$ 1000 angstroms
Cathode:	
Shape	Semicylindrical
Minimum projected length*	1-1/4"
Minimum projected width*	5/8"
Direct Interelectrode Capacitance	3 μ 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

DIRECTION OF LIGHT

Maximum Ratings, Absolute Values:

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

Characteristics at 250 Volts on Anode:

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

* 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 $^{\circ}$ 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

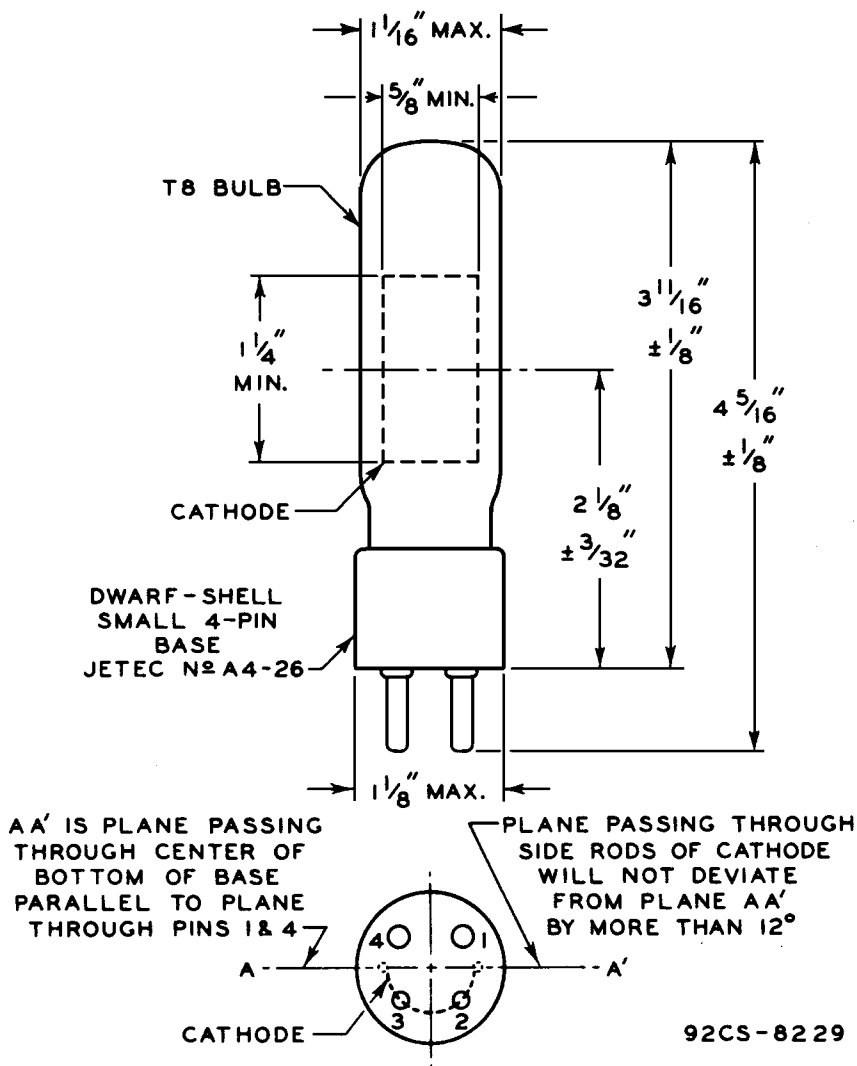
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VACUUM PHOTOTUBE

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

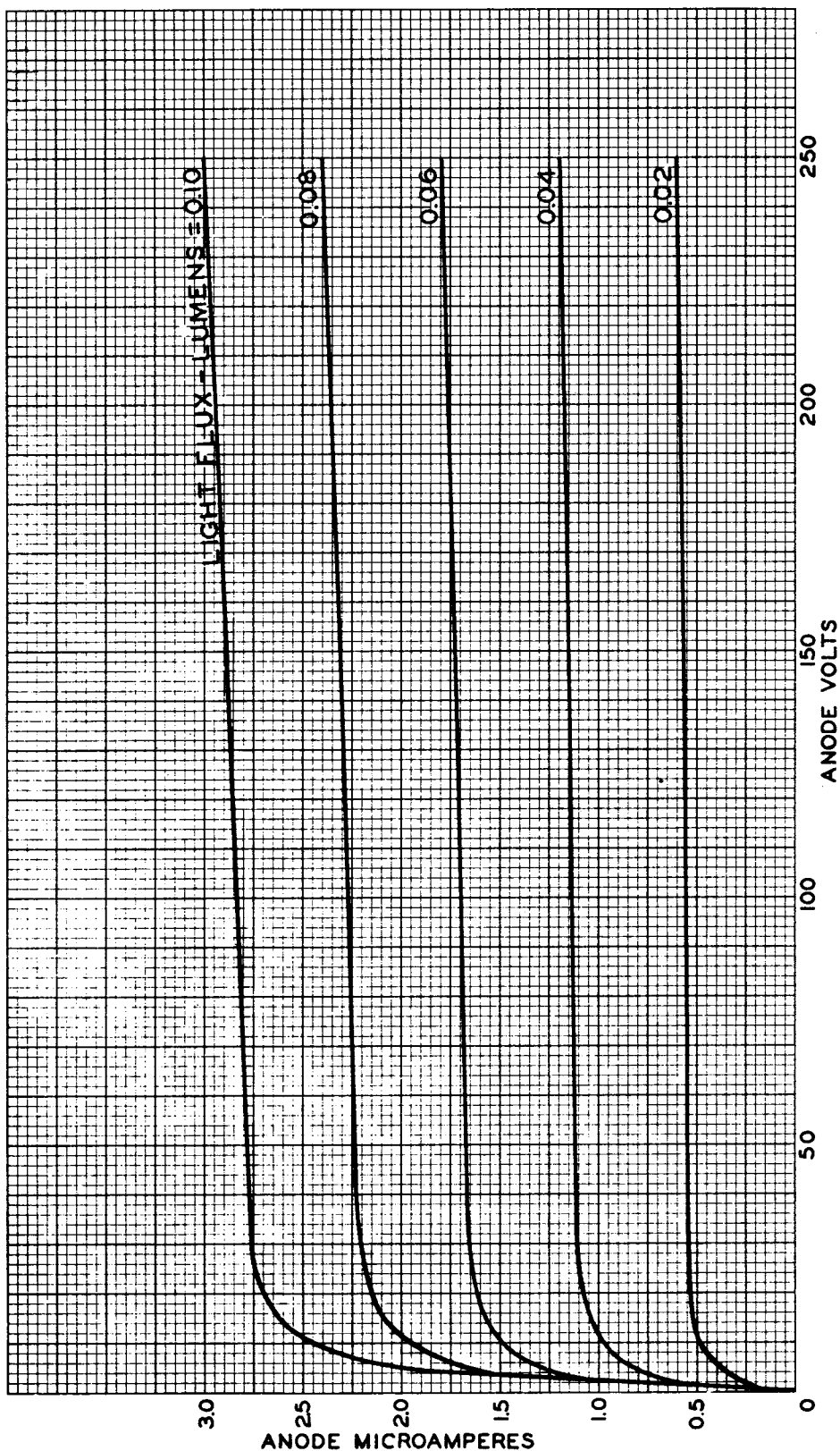




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AVERAGE ANODE CHARACTERISTICS



DEC. 3, 1954

TUBE DIVISION

92CM - 8491

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY