



IP29

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## GAS PHOTOTUBE

VIOLET — GREEN SENSITIVE

Phototube Spectral Response	S3
Cathode:	
Shape	Semi-cylindrical
Width	11/16"
Length	1-5/8"
Minimum Projected Area	0.9 sq.in.
Center Length (from bottom edge of base)	2-1/8" ± 3/32"
Direct Interelectrode Capacitance	3 μf
Maximum Overall Length	4-1/8"
Maximum Seated Height	3-1/2"
Maximum Diameter	1-3/16"
Bulb	T-8
Base	Tapered Small 4-Pin
Pin 1—No Connection	Pin 3—No Connection
Pin 2—Anode (+)	Pin 4—Cathode (-)
Mounting Position	Any



BOTTOM VIEW (2K)

*Maximum Ratings Are Absolute Values*

### MAXIMUM RATINGS and CHARACTERISTICS

Anode-Supply Voltage (D.C. or Peak A.C.)	100 max.	volts
Cathode Current Density	100 max.	μamp./sq.in.
Average Cathode Current	20 max.	μamp.
Dark Current	0.1 max.	μamp.
Ambient Temperature	100 max.	°C

**Characteristics:**

Wavelength of Max. Response	4200	angstroms
Sensitivity at Max. Response	0.010	μamp./μwatt
Luminous Sensitivity:*		
At 0 cycles	40	μamp./lumen
At 5000 cycles	35	μamp./lumen
At 10000 cycles	31	μamp./lumen

Gas Amplification Factor                      Not over 9

Minimum D-C Resistance of Load:

*With anode-supply voltage of 75 volts or less*

For d-c currents	above 3.5 μamp.	0.1	megohm
	below 3.5 μamp.	No Minimum	

*With anode-supply voltage of 100 volts*

For d-c currents	above 2 μamp.	2.5	megohms
	below 2 μamp.	0.1	megohm

\* Subject to variations as explained on sheet PHOTOTUBE SENSITIVITY MEASUREMENTS in front of this section.

### OUTLINE DIMENSIONS

for the IP29 are the same as those for the 868.

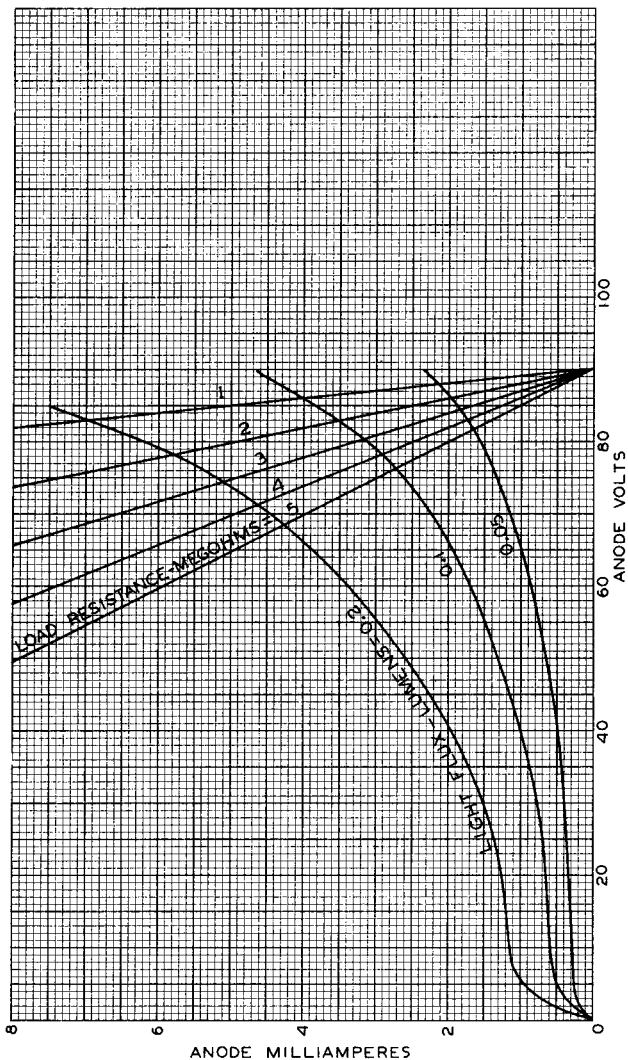
Spectral Sensitivity Characteristic of Phototube having  
S3 Response is shown at the beginning  
of this section.

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## AVERAGE ANODE CHARACTERISTICS



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RCA VICTOR DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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