

GENERAL DATA

Spectral Response	See Curve
Wavelength of Maximum Response	6100 $\pm$ 400 Angstroms
Sensitive Material	Cadmium-Sulfide
Sensitive Area	Viewed from End
Construction	Hermetically Sealed in Glass with Flexible Leads
Outline	See Drawing
Operating Position	Any

ELECTRICAL DATA

RATINGS (Absolute Maximum Values)

Breakdown Voltage ²	150 Volts
Dissipation	
T-amb = 25°C	50 mW
T-amb = 70°C	5 mW
Ambient Temperature Range	-40 to +70 °C
Illumination	Note 3

CHARACTERISTICS

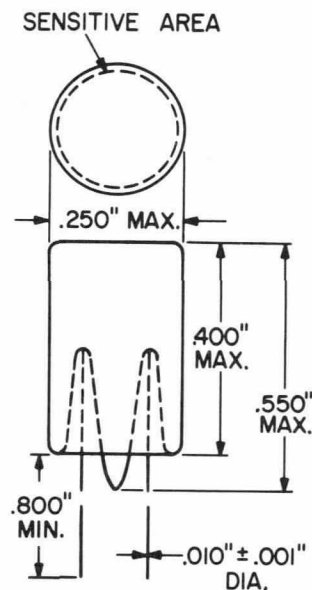
Cell Resistance ⁴	
Illumination 2 FC	
Color Temperature 2870°C	1500 Ohms
Dark Resistance ⁵	150,000 Ohms Min.

NOTES:

1. Minute increases in relative humidity will produce change in color.
2. Measured with cell in complete darkness at a pulse rate of 100 pps, 100 μ sec. duration. Voltage in excess of the rated value may damage the cell. Maximum DC or AC peak voltage is limited by maximum dissipation and minimum dark resistance rating.
3. Care should be exercised to prevent localized over-heating of the sensitive surface when the cell is used with a lens system.
4. Measured after 60 minutes minimum exposure to approximately 50 FC illumination (ambient room light).
5. Measured in complete darkness, 10 seconds after removal of 2 FC illumination.

QUICK REFERENCE DATA

The Sylvania Type 8474 is a miniature cadmium-sulfide photoconductive cell featuring high sensitivity and hermetically sealed - in - glass construction. The cell is gaseous back-filled for a high dissipation safety factor and includes a blue-dot compound which turns pink¹ if the cell envelope becomes damaged. The 8474 is designed for use in a wide variety of industrial applications.



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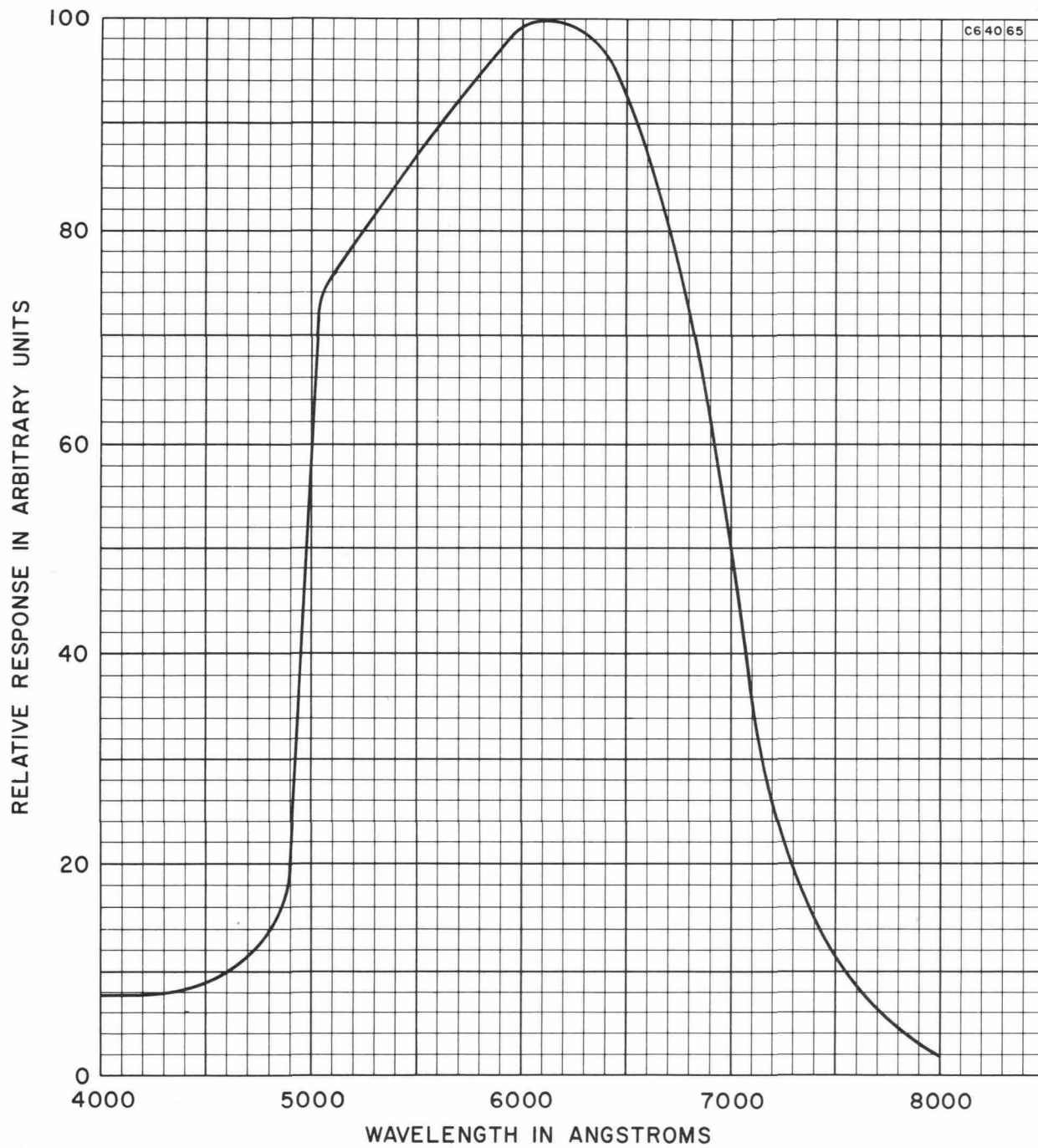
NOVEMBER, 1964

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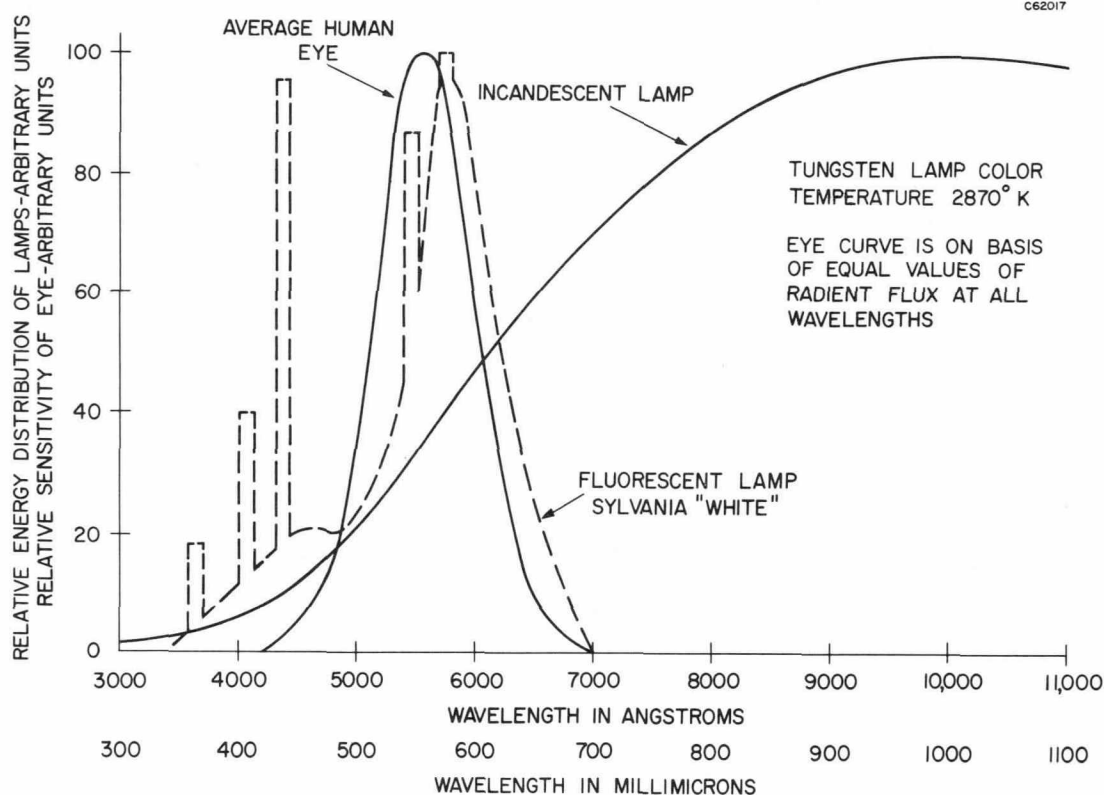
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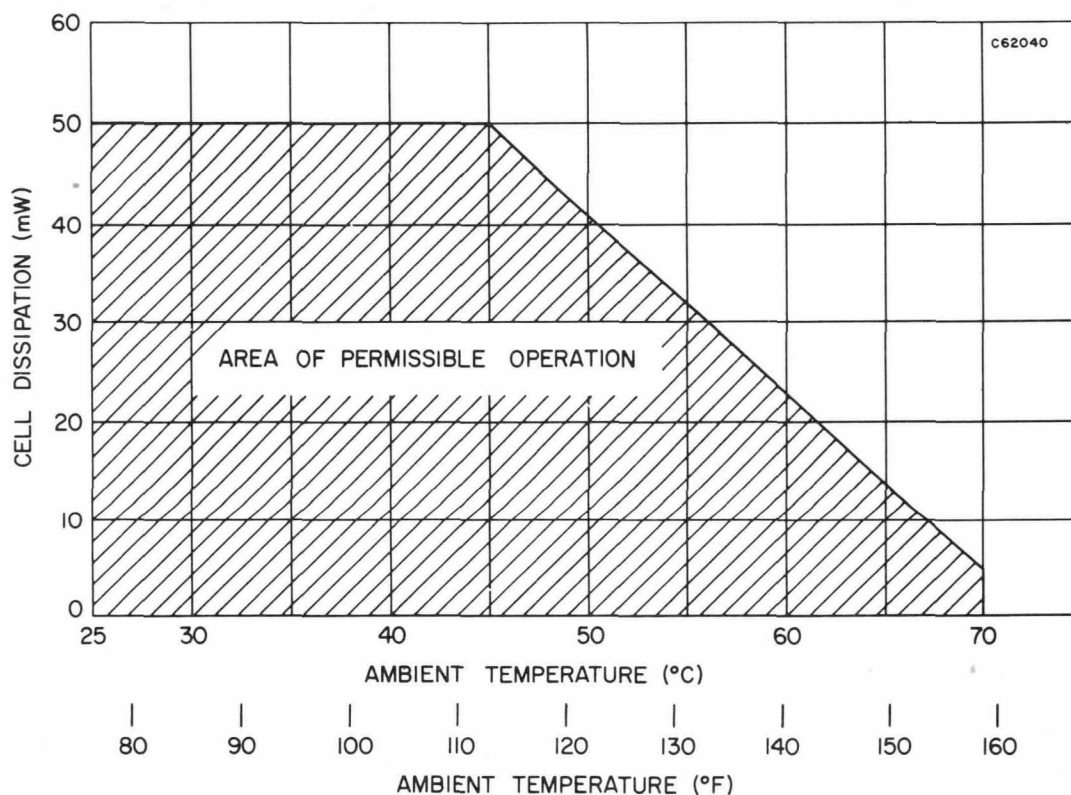
SPECTRAL RESPONSE



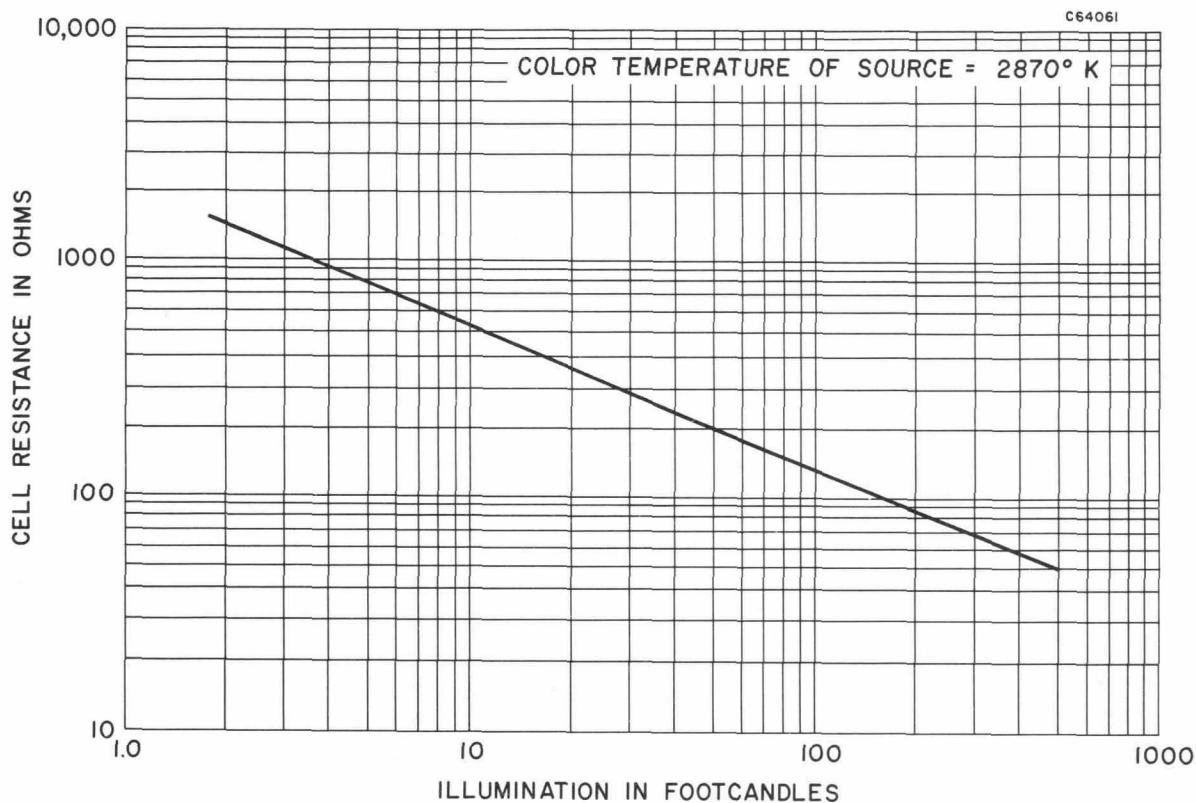
SPECTRAL CHARACTERISTIC OF HUMAN EYE, TUNGSTEN AND FLUORESCENT LAMPS



PERMISSIBLE DISSIPATION AS A FUNCTION OF AMBIENT TEMPERATURE



CELL RESISTANCE VS ILLUMINATION



CELL CURRENT AND DISSIPATION VS VOLTAGE

