

GENERAL DATA

Spectral Response	See Curve
Wavelength of Max. Response	6100 $\pm$ 400 Angstroms
Sensitive Material	Cadmium-Sulfide
Shape of Sensitive Area	Circular
Construction	Hermetically Sealed in Glass
8346	Flexible Leads
8346-1	Push-Pin Base
8346-7	Bayonet Base
Outline	See Drawings
Operating Position	Any

ELECTRICAL DATA

RATINGS (Absolute Maximum Values)

Breakdown Voltage ²	400 VAC
Dissipation	
T-amb = 25°C	300 mW
T-amb = 70°C	25 mW
Ambient Temperature Range	-40 to +70 °C
Illumination	Note 3

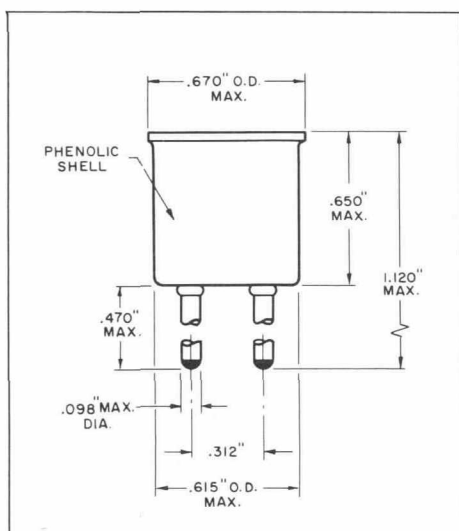
CHARACTERISTICS

Cell Resistance ⁴	
Illumination 2 FC	
Color Temperature 2870°K	3000 Ohms
Dark Resistance ⁵	300,000 Ohms Min.

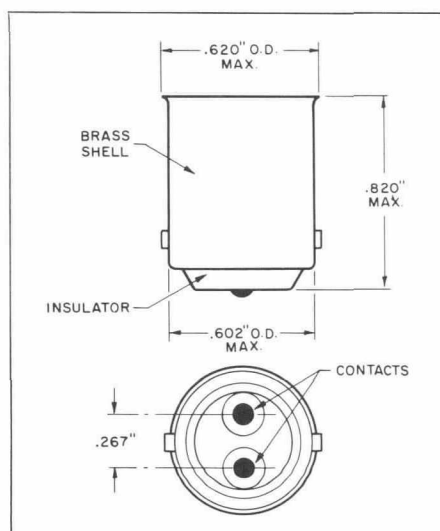
NOTES:

- Minute increases in relative humidity will produce change in color.
- 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 voltage is limited by maximum dissipation and minimum dark resistance rating.
- Care should be exercised to prevent localized overheating of the sensitive surface when the cell is used with a lens system.
- Measured after 60 minutes exposure to approximately 50 FC illumination (ambient room light).
- Measured in complete darkness, 10 seconds after removal of 2 FC illumination.

OUTLINE 8346-1



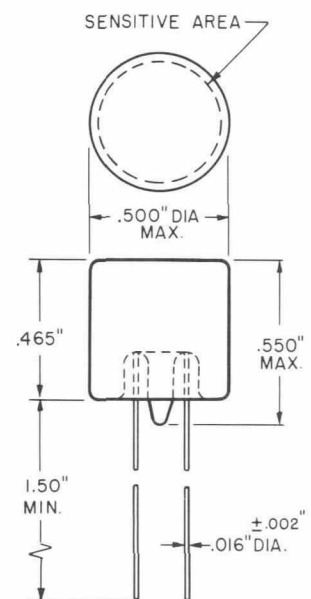
OUTLINE 8346-7



QUICK REFERENCE DATA

The Sylvania Types 8346, 8346-1 and 8346-7 are cadmium sulfide photoconductive cells featuring high sensitivity and hermetically sealed-in-glass construction. The cell is backfilled with gas for a high dissipation safety factor and high voltage capability and includes a blue-dot compound which turns pink¹ if the cell envelope becomes damaged. They have a resistance of 3000 ohms at 2 FC. They are designed for use in a wide variety of industrial applications, and are particularly suited to direct operation of relays.

OUTLINE 8346



SYLVANIA ELECTRIC PRODUCTS INC.

Electronic Components Group
ELECTRONIC TUBE DIVISION
EMPORIUM, PA.

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PAGE 1 OF 4

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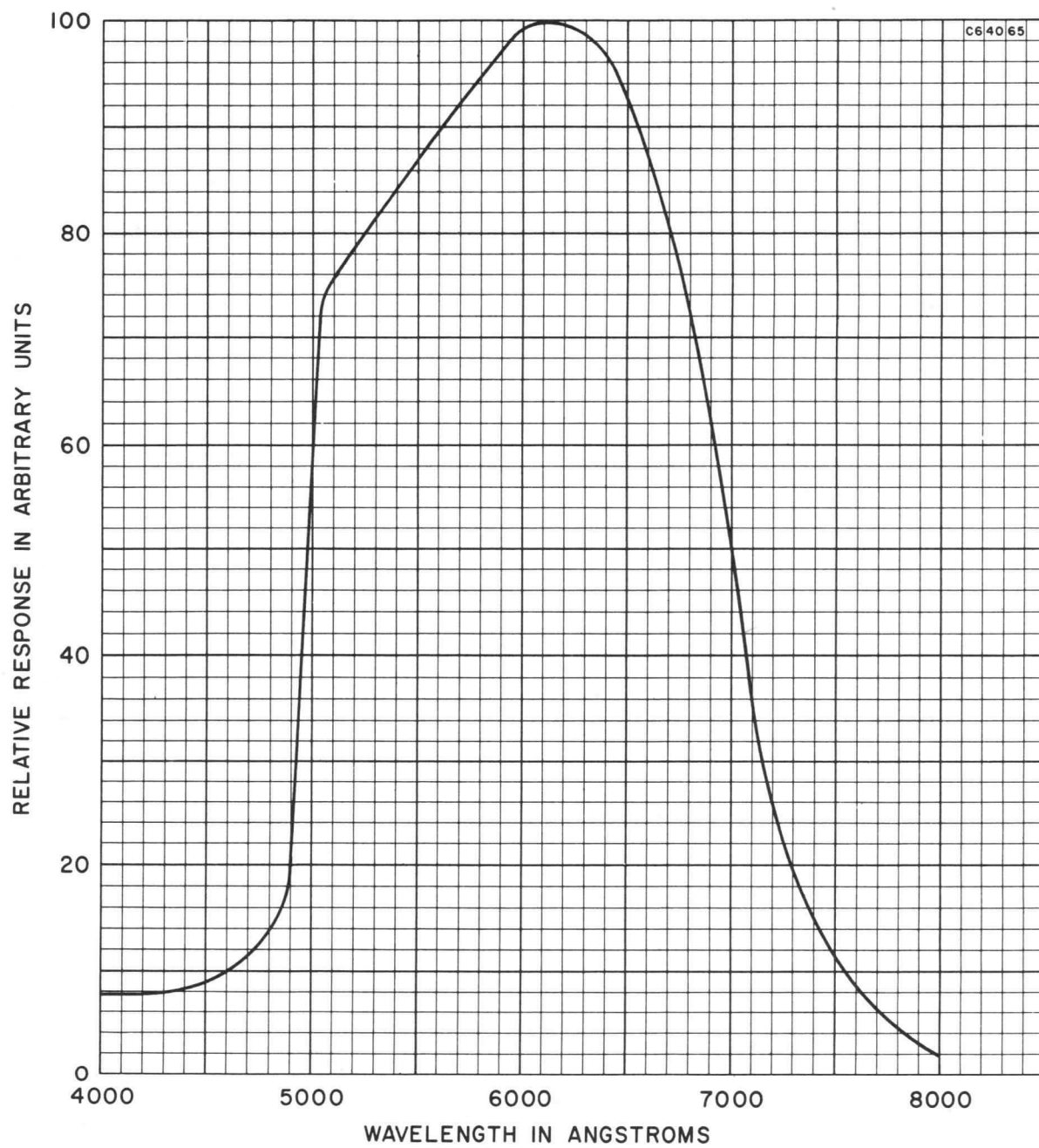
PHOTOCONDUCTORS

SYLVANIA

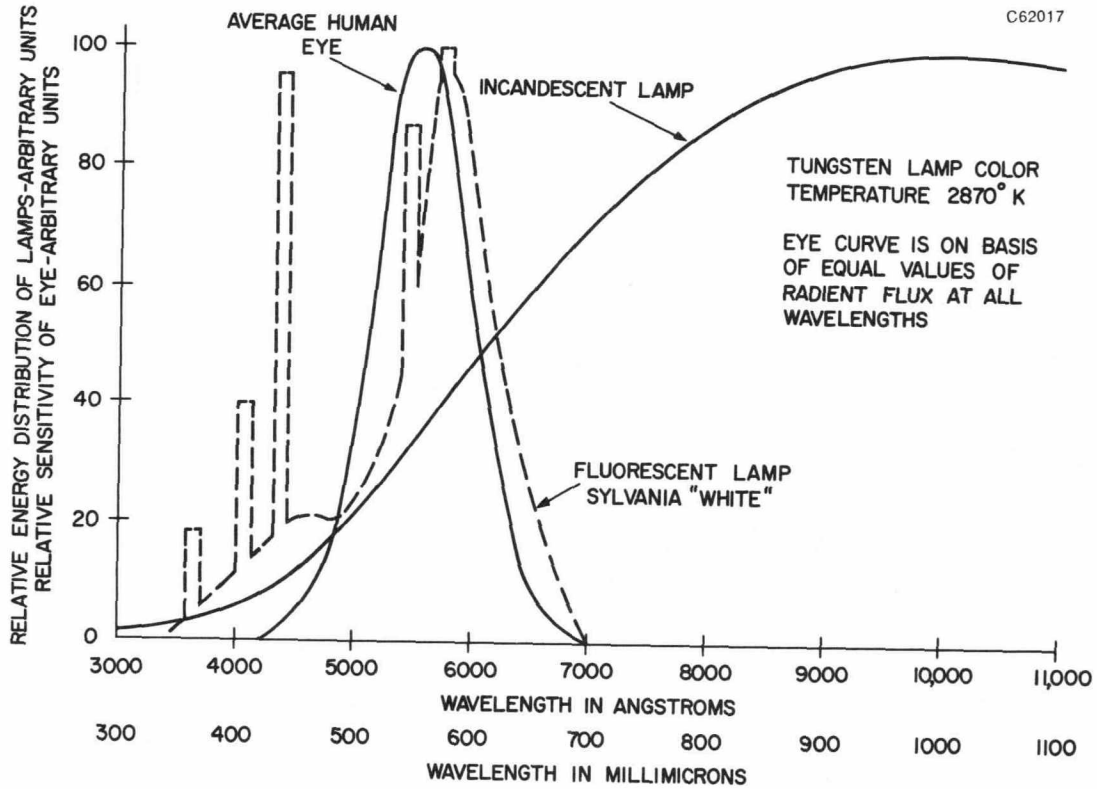
8346
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PAGE 2

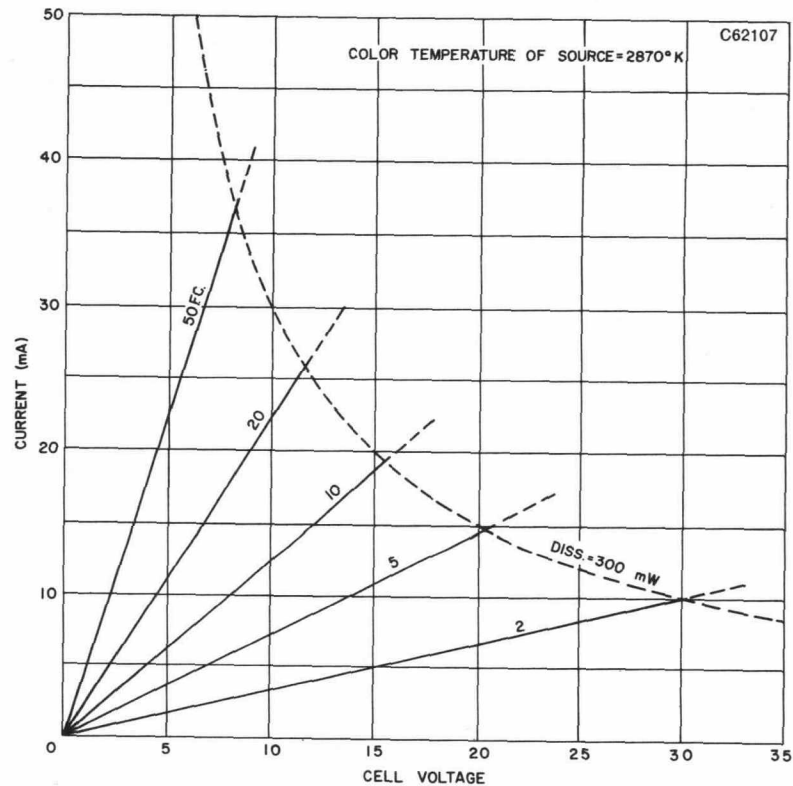
SPECTRAL RESPONSE



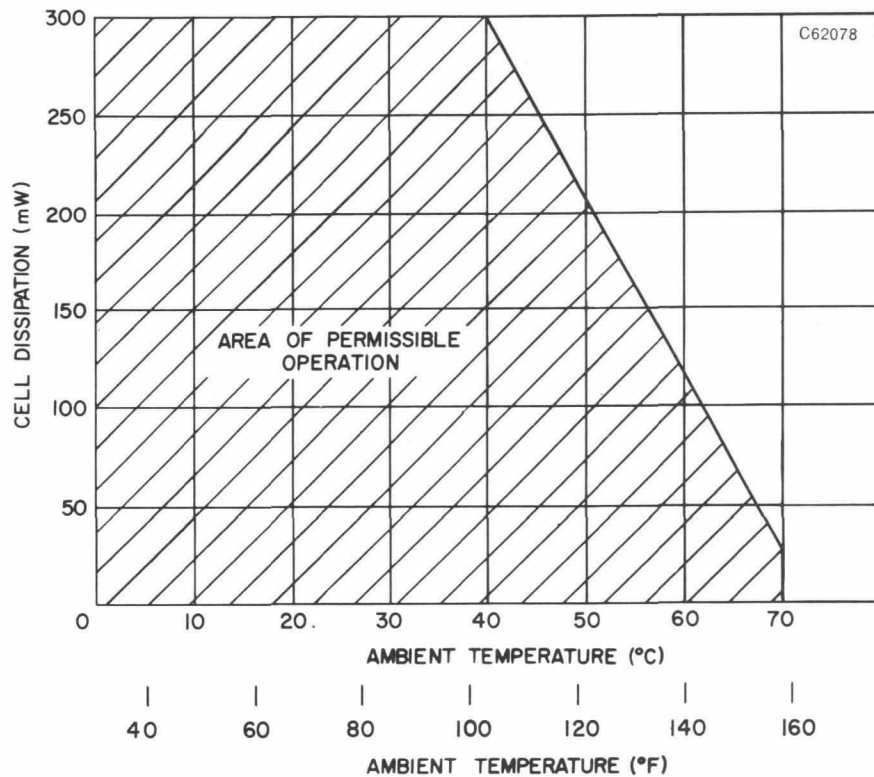
SPECTRAL CHARACTERISTIC OF HUMAN EYE, TUNGSTEN AND FLUORESCENT LAMPS



AVERAGE CHARACTERISTICS



PERMISSIBLE DISSIPATION AS A FUNCTION
OF AMBIENT TEMPERATURE



AVERAGE CHARACTERISTICS

