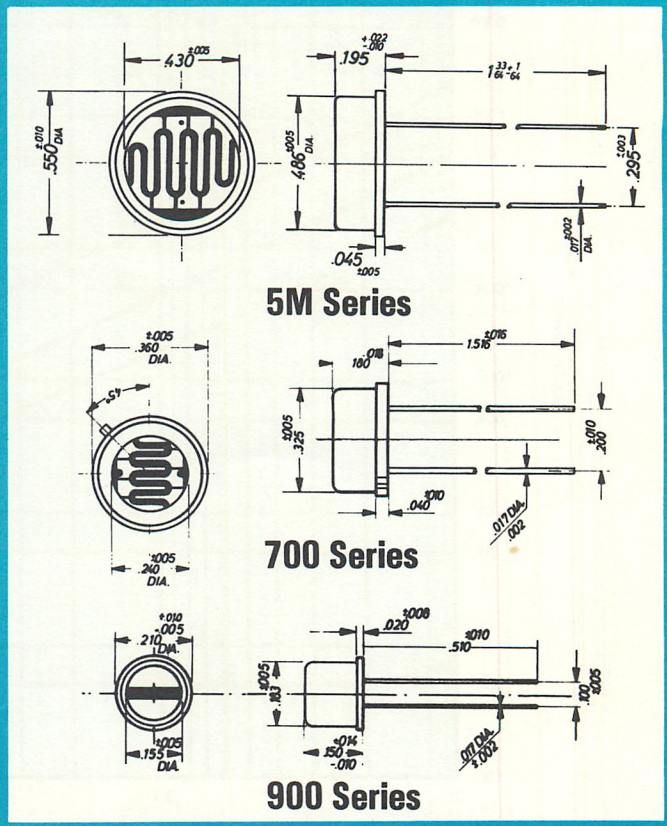
TYPE 9 MATERIAL

- LOW TEMPERATURE ERROR
- LOW LIGHT HISTORY EFFECT
- HIGH LINEARITY
- FAST RESPONSE TIME
- RESISTANCE TOLERANCE AT 2 Ft-C: ±33⅓
- TEMPERATURE RANGE -50°C to +75°C



TYPE	Sensitive Material	Peak Spectral Response (Angstroms)	Resistance @ 2 ft-c (Ohms)	Min. Dark Resistance 5 sec. After 2 ft-c	Maximum Voltage Rating (Peak A.C.)	Measurement Voltage	Maximum power @ 25°C
CL5M9M	Type	5500	11K	3.7 Meg	170V	10	0.5 watts
CL709L	9		28K	18.7 Meg	100V	10	.125 watts
CL909L	CdS		100K	67. Meg	100V	10	.050 watts

RESPONSE TIME VERSUS LIGHT

Foot Candles	.01	0.1	1.0	10	100
Rise (Seconds)*	0.5	.095	.022	.005	.002
Decay (Seconds)**	.125	.021	.005	.002	.001

*Time to (1-1/e) of final reading after 5 seconds Dark adaption.
**Time to 1/e of initial reading.

VARIATION OF CONDUCTANCE WITH TEMPERATURE

Foot Candles	.01	0.1	1.0	10	100
Temperature	% Conductance				
-50°C	107	106	106	104	108
-25°C	103	104	104	102	106
0°C	98	102	102	100	103
25°C	100	100	100	100	100
50°C	98	102	103	104	99
75°C	90	106	108	109	104

MEASUREMENT DATA • All measurements at 2854°K • Cells light adapted 16 hrs. at 30 ft-c prior to test • Measurement voltage is D.C. applied voltage for measuring resistance • All readings made at 25°C ambient.

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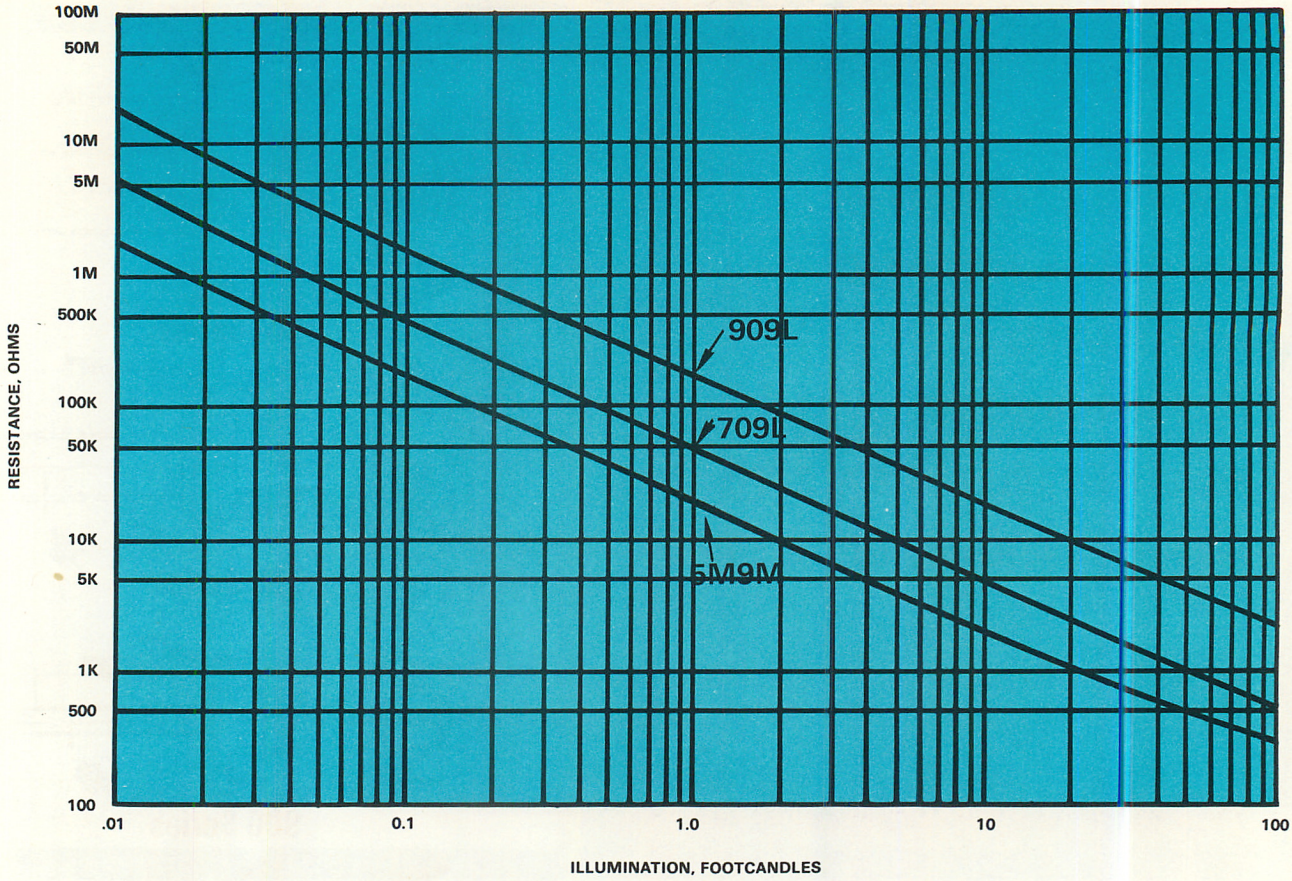
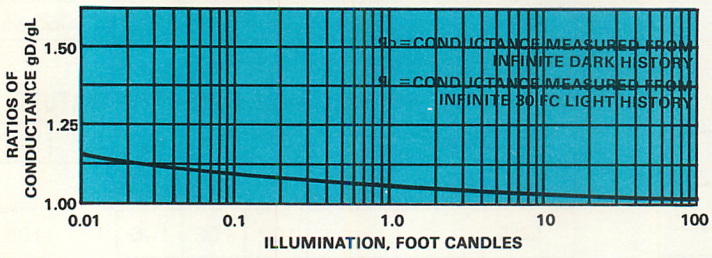
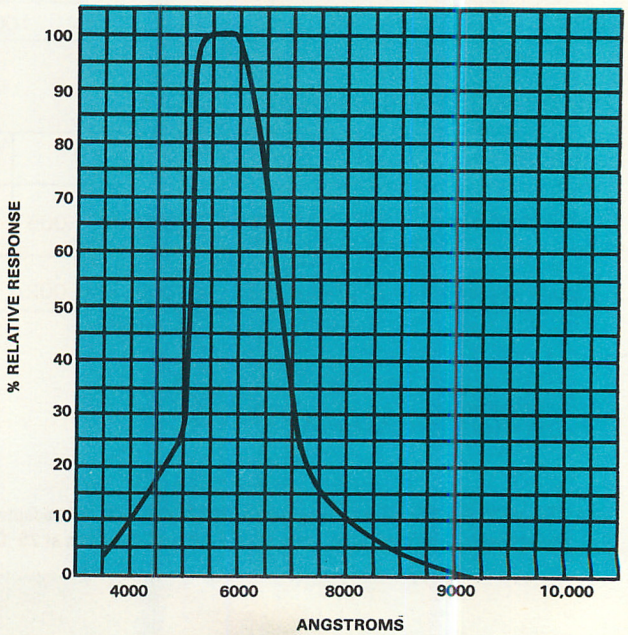
CELL RESISTANCE VS ILLUMINATION (2854°K)



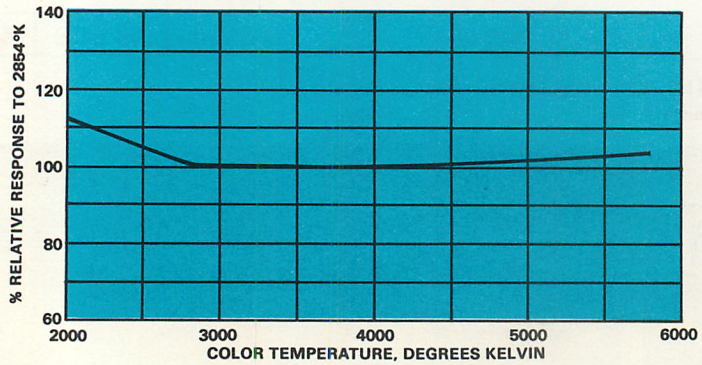
VARIATION OF CONDUCTANCE WITH LIGHT HISTORY



SPECTRAL RESPONSE



COLOR TEMPERATURE RESPONSE
Measurements at 2FC from light history



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