

Important technical data

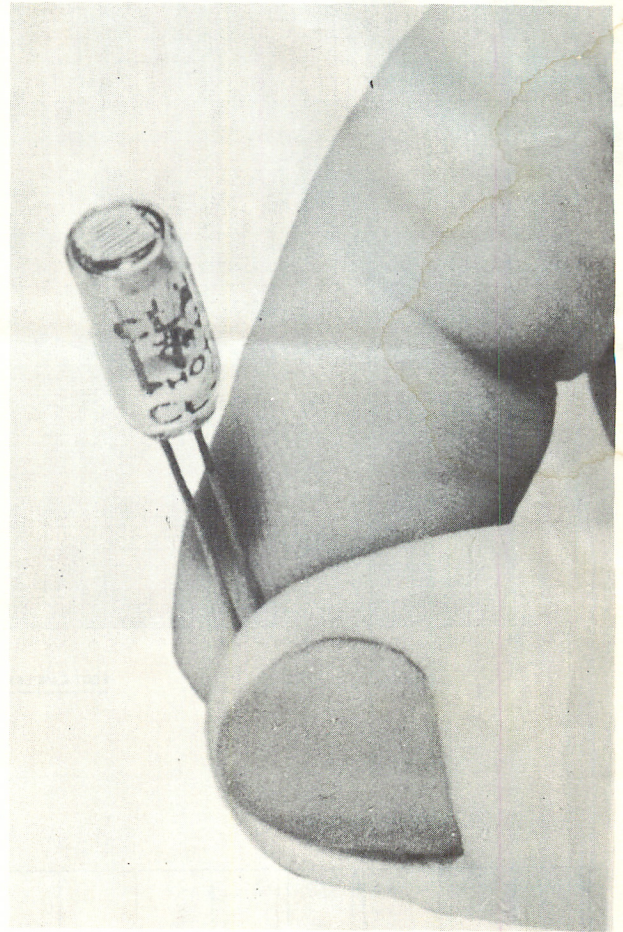
5-I CELL

The latest addition to the Clairex line of photoconductive cells utilizes a cadmium sulphide formulation whose sensitivity variation with the color temperature of light sources more closely approximates that of the human eye than does any other uncorrected sensor.

Thus, cell conductance will measure light (as sensed by the human eye) accurately whether it be "tungsten" or "daylight" — whether the color temperature be 2700°K or 6500°K or any intermediate value. A foot-candle meter which incorporated this cell would require no correction filter.

Light and lighting control systems which involve human vision can be improved by use of this cell. Such applications range from street lighting control to the automatic adjustment of television receiver picture-tube brightness and contrast to compensate for ambient room illumination.

Although the monochromatic spectral response is not identical with that of the eye, the curves share a common peak and axis of symmetry. These factors, and the fact that cell response to broad spectral radiation does not appear to be the linear integral of monochromatic response, contribute to the close correspondence in overall response.



The 5-I material will be available in the cell configurations tabulated below. Among these are the low impedance "L" types which are highly suitable for portable, battery operated light meters.

CL CELL #	Sens. Mat.	Enclosure	Pk. Spect. Resp.	R-2 ft.C.	Max. Volt.	Max.Diss.
605-I	Cds.	.25 x .500	5500	166K	300V.	75 mW.
605-IL	Cds.	.25 x .500	5500	7.5K	60	75 mW.
505-I	Cds.	.5 x .5	5500	9K	250	500-250
505-IL	Cds.	.5 x .5	5500	1.5K	60	500-250
405-IS	Cds.	.265 x 1	5500	166K	300	75
405-ISL	Cds.	.265 x 1	5500	7.5K	60	75

NEW ENGLAND
Bordewieck Engineering
Sales Company
221 Grove Street
South Braintree, Mass.
Phone: VICTOR 3-0845

PENNSYLVANIA
AND EAST COAST
Samuel A. Dixon
208 Russell Avenue
Barrington, N.J.
Phone: LINCOLN 7-7383

MID-WEST
The Heimann Company
1711 Hawthorne Avenue
Minneapolis 3, Minn.
Phone: FEDERAL 2-5457

CENTRAL
T. B. Hunter Associates
4441 W. Irving Road
Chicago 41, Illinois
Phone: SPRING 7-2500

CALIFORNIA
AND SOUTH WEST
Moxon Electronics Corp.
489 So. Robertson Blvd.
Beverly Hills, Calif.
Phone: BRADSHAW 2-9311

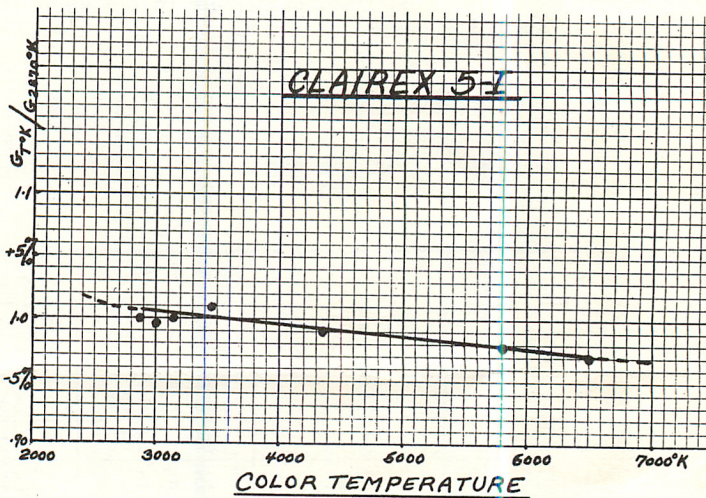
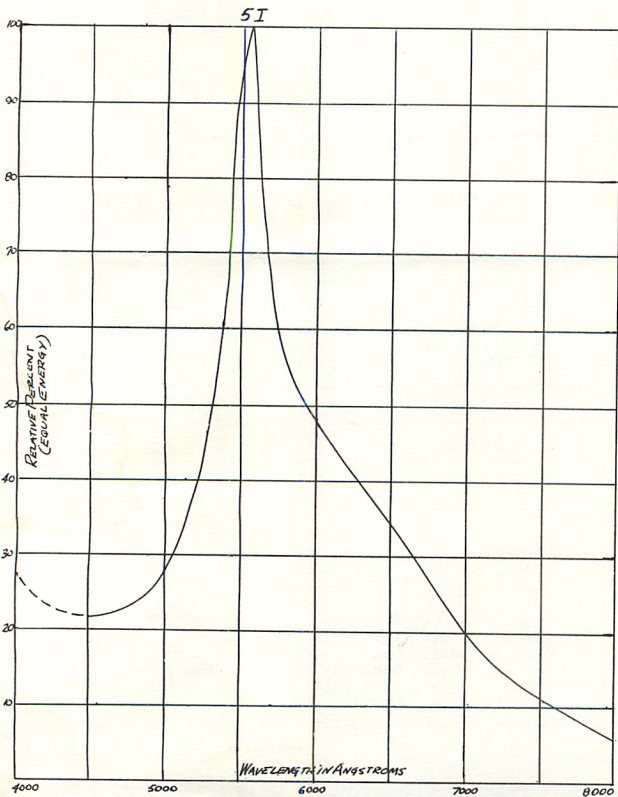
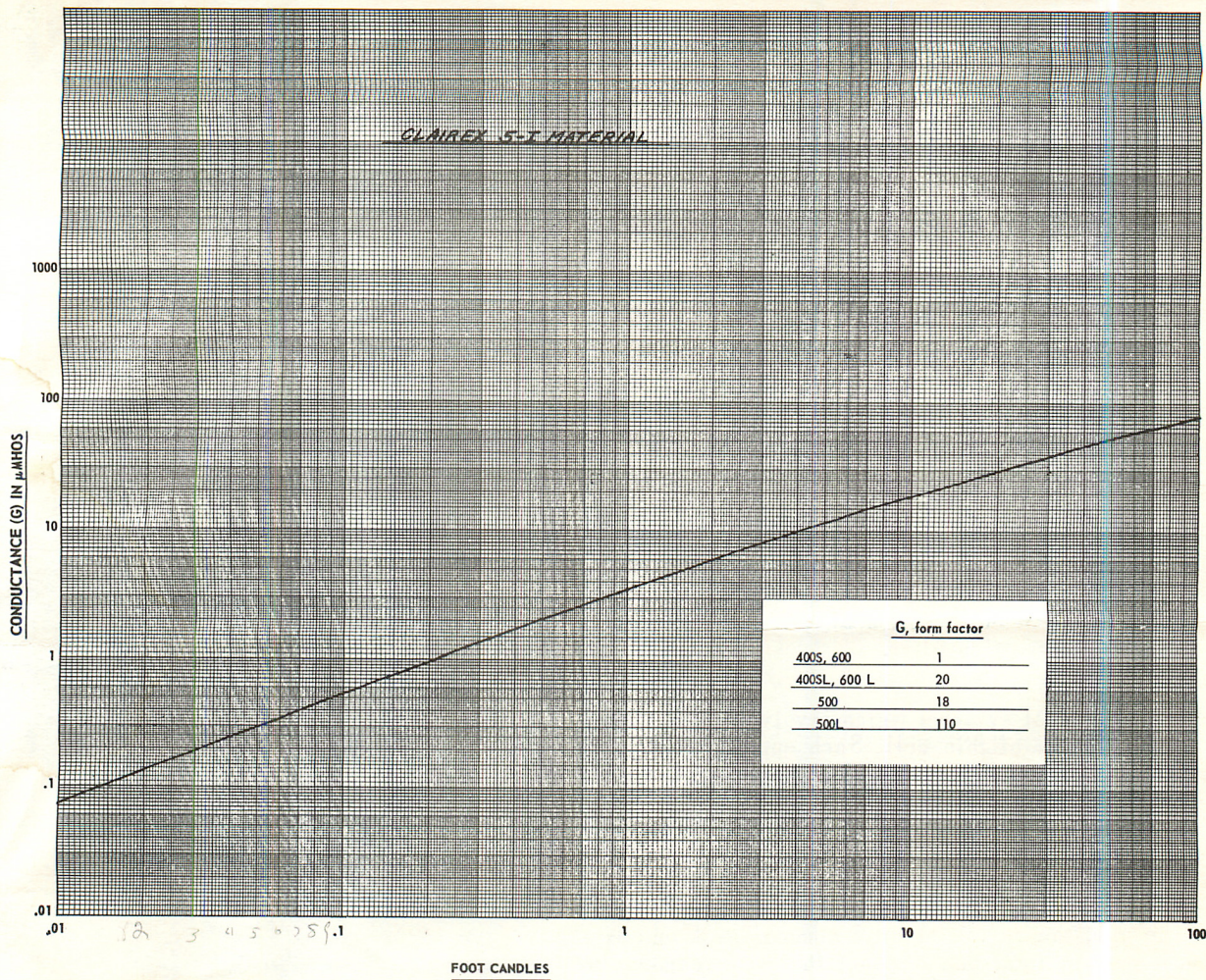
AUTOMOTIVE FIELD
Daniel J. Clifford
623 Fisher Bldg.
Detroit 2, Mich.
Phone: TRINITY 5-3544

OHIO STATE: Edmund Frost, 14545 Chelmsford Rd., Mayfield Heights, Cleveland 24, Ohio. Phone: HILLCREST 2-9040

THE light TOUCH IN AUTOMATION AND CONTROL

FOR ADDITIONAL INFORMATION, CONTACT THE CLAIREX REPRESENTATIVE NEAREST YOU OR;

CLAIREX CORPORATION, 8 WEST 30 STREET, NEW YORK 1, N. Y., MU 4-0940



MATERIAL: 5-I	
LIGHT LEVEL IN FOOT CANDLES	.01 .1 1 10 100
TIME CONSTANT (TO 1-1/2 OF FINAL READING)	
RISE: (SECONDS)	2.8 .30 .074 .021 .007
DECAY: (SECONDS)	1.3 .22 .058 .021 .014
TEMPERATURE CHARACTERISTIC: 100 x G _T / G _{25°C}	
- 25°C.	77 80 95 95 100
0°C.	78 82 96 99 100
25°C.	100 100 100 100 100
50°C.	160 120 110 110 100
75°C.	230 120 120 110 100