## ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV242/Issue 6.	2 (2000-00-00-00-00-00-00-00-00-00-00-00-00					
Dated 18.10.48.	Specn.	Valve.				
To be read in conjunction with K1004.	Restricted	Unclassified				

-Indicates a change.

	The second secon				-			
	TYPE OF VALVE:-	LVE:- Ges-filled Photo- Electric Cell. Caesium on Silver,			MARKING See K1001/4. (Also Not 'B').			lote
	WAS ILLIVIANS & CO.	or approved alternative.			BASE B4			
	ENVELOPE: -	NVELOPE:- Glass.			See K1001/AIV/D5.1.			
	PROTOTYPE:- CMG25; GS18.  RATING Note			DIMENSIONS See Drawing Page 3.			Participal (My International Photos	
				Note	CONNECTIONS (Also Page 3.)			
	Working Voltage	(v)	80-110	A	Pin	Mlect	rode	
<b>→</b>	Maximum Voltage		Wkg. Volts		1 2 3 4	Anode Cathode No conn No conn		
,	Win. Sensitivity (puA/lumen) 75		75		See K	PACKAG	NG	

## NOTES

- A. The working voltage is to be selected by the manufacturer, within the limits stated, and shall be such that the conditions of the tests on Page 2 are fulfilled. It shall be a multiple of 5 and is to be clearly and permanently marked on each cell.
- B. The maximum voltage is considered to be the voltage which will never be exceeded at any time when the cell is illuminated; it is NOT to be marked on the cell.

TESTS

To be performed in addition to those applicable in K1004.

ſ		Test Conditions		5540 CARD	Limits		<b>3</b> 7 -	
		Va (Volts)	Idight Flux (Lumens)	TEST (See Note 4)	Min.	Max.	No. Tested	Note
->	a	x	0.02	Sensitivity (nA/lumen)	75	•	100%	1,2, 3.
ہـ	Ъ	x	Nil	Dark Current (uA)	1	0.1	1.00%	1,3.
<b>→</b>	C	x + 10:	0.02	There must be no uncontrolled discharge.	-	•	100%	1,2, 3.
->	đ	x + 10	N11	Dark Current (uA)	40	0.2	100%	1,3.
	6	x + 20	Nil	Dark Current (µA)		0.2	100%	1,3.

## NOTES

- 1. x = working voltage as defined in Note 'A', Page 1.
- 2. Light Flux is to illuminate the whole of the useful cathode area. (See drawing on Page 3.)
  - 3. Test to be carried out with resistance of 100,000 ohms ± 5% connected in series with the anode circuit. All voltages in the above tests are measured across the cell and resistance in series.
- 4. Tests are to be carried out in the order given above, and test 'd' is to follow immediately after observing test 'c'.

CV242/6/III