



IEC 60921:1988 + A1:1990 + A2:1994
TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
Ballasts for fluorescent lamps – Performance requirements

R=Required by Lab

S=May be subcontracted

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
5	Open circuit voltage	Supply, resistors, voltmeter, oscilloscope	R
6 (A.5)	Pre-heating conditions	Supply, resistors, amperometer	R
7 (A.6)	Power and current delivered to the lamp	Test circuit according to fig. 6 or 7: supply, reference ballast, reference lamp, voltmeter, amperometer, wattmeter , integrator, light meter	R
8	Circuit power factor	Test circuit according to fig. 2: supply, amperometer, voltmeter, wattmeter, reference lamps	R
9	Supply current	Supply, reference lamp, amperometer, voltmeter	R
10 (A.7)	Max. current to cathode terminals	Test circuit according to fig. 8: supply, equivalent resistors, reference lamp, voltmeter, amperometer	R
11 (A.8)	Current waveform	Test circuit according to fig. 9: supply, reference lamp, oscilloscope, selective voltmeter or wave analyzer	R
12	Magnetic screening	Supply, steel plate, amperometer, voltmeter	R
13 (A.9)	Audio frequency impedance	Test circuit according to fig. 10: supply, a.c. generator, resistance bridge, spectrum analyser	R

Note: The presence of equipment alone does not indicate a satisfactory situation. Assessors must evaluate the equipment design, calibration, uncertainty and documentation to ensure compliance with the directions of the standard. The requirements of ISO Guide 25 regarding validation are applicable, as the tests of this standard are not standardised tests.