IEC 61347-2-7, 3rd Edition (2011)

TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

Lamp controlgear – Part 2-7: Particular requirements for d.c. supplied electronic ballasts for emergency lighting

R = Required by Lab
S = May be subcontracted
W = Witness testing
3PPS = Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
15	Starting conditions	Cycling equipment, stopwatch, reference ballast	**R**
16	Lamp current	Reference ballasts, reference lamps, oscilloscope	**R**
17	Supply current	Reference lamps, DC power supply, V-meter, ammeter	**R**
18	Maximum current in any lead (with cathode preheating)	Reference lamps, Requirements according to IEC60929 clause 11	**R**
19	Lamp operating current waveforms	Reference lamps, Oscilloscope	**R**
20	Functional safety (EBLF)	Reference ballasts, reference lamps, Test circuit corresponding to that of Figure 1, stopwatch	**R**
21	Change-over operation	Cycling equipment, AC V-meter	**R**
22	Recharging device	Requirements according to IEC 61558-2-1:2009, IEC 61558-2-6:2009 or IEC 61558-2-16:2009, as specified in 4.2 and 5.13 of IEC 61558-1:2005 + Amendment 1:2009 R.m.s. V-meter, DC V-meter, Cooling/Heating chamber, Temperature measuring device, Electric strength tester, Stop watch	**S** **R**
23	Protection against excessive discharge	DC V-meter, DC A-meter, Stop watch	**R**
25.6	Temperature cycling test and endurance test	DC A-meter, Stop watch	**R**
26	Temperature cycling test and endurance test	Cooling/heating chamber, DC power supply, DC V-meter, Stop watch	**R**

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
27	Polarity reversal	Stop watch, Voltmeter	**R**
29.1.2	Construction	Requirements according to IEC60598-2-22 Annex A	**R**
34	Abnormal lamp conditions	Rectifier diodes, variable resistor, megaohmmeter, Oscilloscope, voltmeter, Dummy cathode resistors	**R**