

TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING IEC 62560 Edition 1 2011 – A1:2015

Self-ballasted LED lamps for general lighting services by voltage > 50 V - Safety specifications

“R”	Required
“S”	May be subcontracted, see OD 2012
“SF”	Specialized Facility, see IECEE 02-2
“W”	Witness testing in the categories “MED” and “MEAS”
“3PPS”	Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
5.3	Marking	Hexane, water, piece of cloth	R
6.1	Cap interchangeability - Table 1	Gauges according to IEC 60061-1 and IEC 60061-3	R
6.2	Bending moment, axial pull and mass	Test finger with indicating device and with force meter, Weighting device	R
7	Protection against accidental contact with live parts	Standard Test finger (IEC 60529) , IEC 60061-3, sheet 7006-51A for E27 caps and sheet 7006-55 for E14 caps, Mega ohmmeter, High Voltage transformer	R
8.2 - 8.3	Insulation resistance and electric strength after humidity treatment	Humidity cabinet , Megaohmmeter , High Voltage transformer	R
9.2.1	Torsion resistance of unused lamps	Holder for torque test Figure 3 and figure 4	R
9.4	Axial strength of Edison Caps	Gauges according table 4; dynamometer	R

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
10	Cap temperature rise	See requirements of IEC 60360	R
11	Resistance to heat	Heating cabinet / Ball pressure test apparatus	R
12	Resistance to flame and ignition	Needle flame test apparatus and Glow-wire test apparatus	R
14	Creepage distances and clearances	Digital calliper (or equivalent)	R
15	Abnormal operation	Circuit shown in Figure 8 (for non-dimmable lamps on a dimmer or an electronic switch); test finger	R
17	Photobiological safety	UV radiation test instruments / retinal blue light hazard test instruments (Equipment List of IEC/TR 62778:2012, Edition 1.0) Goniophotometric measurement system	S
18	Ingress protection	IP X4 test equipment	R