

TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

IEC 62560:2011+AMD1 Edition 1

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

“R”	Required
“S”	May be subcontracted, see OD 2012
“SP”	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	Equipment Classification
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	GNG-E27
6.2	Bending moment, axial pull and mass	Test finger with indicating device and with force meter, Weighting device	LS-WJ62
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	SMT-IP20T
8.2 - 8.3	Insulation resistance and electric strength after humidity treatment	Humidity cabinet ,Insulation resistance tester, Electric strength tester	WB2681A GDJS-015B WB2671B
9.2.1	Torsion resistance of unused lamps	Holder for torque test Figure 3 and figure 4	CH338
9.4	Axial strength of Edison Caps	Gauges according table 4; dynamometer	R
10	Cap temperature rise	See requirements of IEC 60360	TMP-L

Clause	Measurement/testing	Testing / measuring equipment / material needed	Equipment Classification
11	Resistance to heat	Heating cabinet / Ball pressure test apparatus	GW-225 ZBP-T
12	Resistance to flame and ignition	Glow-wire test apparatus	ZRS-3H
13	Fault condition	Power source(see also CTL DSH 2147), Insulation resistance tester 1000vdc	R
14	Creepage distances and clearances	Digital calliper (or equivalent)	CK-1
15	Abnormal operation	Circuit shown in Figure 8 (for non-dimmable lamps on a dimmer or an electronic switch); test finger	R
16	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	EN62471-C
17	Ingress protection	IP X4 test equipment	JL-34