

**TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING**  
**IEC 62868, 1 Edition (2014)**  
**Organic light emitting diode (OLED) panels for general lighting – Safety requirements**

“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
5.2	Marking	Water, piece of cloth	
6.2	Mechanical strength	Vibration test equipment	<a href="#">LVD-100KG</a>
6.3	Internal short circuit	Stop watch, Digital caliper (or equivalent) Tissue paper	
6.5	Resistance to dust, solid objects and moisture Solid object proof luminaire testing Dust proof luminaire tests Water proof luminaires testing	Clause 9 – IEC 60598-1 also refers IP 3X (2,5 mm) / IP 4X (1 mm) probes Apparatus for proving protection against dust Apparatus for protection against water tests	<a href="#">SMT-CT3</a> <a href="#">SMT-DT1</a> <a href="#">SC-015</a> <a href="#">JL-X</a>
7	Mechanical hazards	Sharp edge tester according to IECTR 62854	
8	Fault conditions	Variable Supply, temperature measurement device, heating cabinet, high-frequency spark generator, tissue paper, timer voltmeter, mega ohmmeter, wattmeter	
9.1	Insulation resistance	Clause 10.2.1 of IEC 60598-1 also apply	<a href="#">WB2681A</a>
9.2	Electric strength	Clause 10.2.2 of IEC 60598-1 also apply	
10	Thermal stress	Heating cabinet, stop watch, high-frequency spark generator	<a href="#">JCY-1</a>
11	Creepage distances and clearances	Digital calliper (or equivalent), Clause 11 – IEC 60598-1 also refers	<a href="#">CK-1</a>

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
12.1	Resistance to heat	Heating cabinet / Ball pressure test apparatus (see also CTL D.S. N. 391.mod)	<a href="#">ZBP-T&amp;GW-500</a>
12.2	Resistance to fire	Needle flame test apparatus, glow wire test apparatus	<a href="#">ZY-3&amp;ZRS-3H</a>
14	Screw terminals Screwless terminals	Torque drivers, test cables, pull device, micrometer, timer, Clause 14 – IEC 60598-1 also refers Pull device, variable current source, voltmeter, heating cabinet, timer, test cables, Clause 15 – IEC 60598-1 also refers	
Annex C C1, C2	Internal short circuit	Heated tip at 430°C, round tip of steel, temperature indicating device, suitable tool for applying steady force of about 100 N	