

## Methods of Test

Les Andelys - Laboratory  
SMT (Supervised Manufacturer's Testing)

For testing related to SMT acceptance, laboratory has the possibility to apply the following electrical methods of tests

Device under Test	Physical Characteristics	Method of measure	Means of measurement	Reference / Standards	Comments
Luminaire	Electrical current, voltage and Power at steady state	Direct measurements of current, voltage and power (U, I, W). DUT is placed in conditions describe by standards	(Adjustable) Power supply, multimeter, ampermeter, wattmeter, DAQ system, chronometer	EN 60598-1 §12	Power 0-2500W Voltage 0-500V Current 0-20A
Luminaire	Thermal Test	DUT is placed in conditions describe by standards Relevant measurements points measurements are selected Thermal measurement is performed by use of thermocouple or by means of variation of resistance (winding)	(Adjustable) Power supply, multimeter, ampermeter, wattmeter, DAQ system, chronometer, thermocouple, micro-ohmmeter	EN 60598-1 §12	Power 0-2500W Voltage 0-500V Current 0-20A Temperature 0-350°C
Luminaire	Leakage current	DUT is placed in conditions describe by standards Leakage current is measured	Adjustable Power supply (current/voltage regulated), chronometer, measurement circuit according IEC 60990	EN 60990 EN 60598-1 §10	
Luminaire	Electric Strength Measurement	Voltage are set according the product and the conditions defined in standards	(Adjustable) Power supply, chronometer, dielectric voltage supply device	EN 60598-1 §10	