

**TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 61547:2020, Edition 3.0
Equipment for general lighting purposes - EMC immunity requirements**

“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
5.2	Electrostatic discharges (IEC 61000-4-2: 2008)	ESD simulator, VCP, HCP, RGP, 470k resistors (2)	ESD61000-2
5.3	Continuous radiated radio frequency disturbance (IEC 61000-4-3: 2006/AMD1: 2007/AMD2:2010)	Signal generator, RF power amplifier, Function generator, Biconical antenna and logperiodic antenna or Bilog antenna, Millivoltmeter (or Power Meter with Power Sensor), Isotropic Field Probe, Directional coupler, Anechoic chamber or Semi-Anechoic chamber, RF Coaxial Cable, Controller (e.g. PC and Controller software)	GTEM-2
5.3	Continuous radiated radio frequency disturbance (IEC 61000-4-3: 2006/AMD1: 2007/AMD2:2010)	EMI Filter, Additional absorbers	
5.4	Power frequency magnetic fields (IEC 61000-4-8: 2009)	Test Generator, Standard Coil with current meter and/or Rectangular Coil and/or Helmholtz Coil with Magnetic Field Tester and Magnetic Field Probe	PFM61000-8A
5.5	Electrical fast transients (IEC 61000-4-4:2012)	Burst Generator, Coupling/Decoupling Network, Capacitive clamp, RGP	EFT61000-4
		33 nF capacitor for direct injection	EFT-CLAMP
5.6	Continuous radio frequency disturbance (IEC 61000-4-6:2013)	Signal generator, RF power amplifier, Coupler, Coupling/decoupling network, RF Coaxial Cable, Attenuator, Power meter with Power Sensor, EM clamp, Current clamp, 100Ω to 50Ω adaptor and direct injection device, RGP	RFCI61000-6



**IEC SYSTEM FOR CONFIRMITY TESTING AND CERTIFICATION
OF ELECTROTECHNICAL EQUIPMENT AND COMPONENTS**

Clause	Measurement/testing	Testing / measuring equipment / material needed	Equipment Classification
5.6	Continuous radio frequency disturbance (IEC 61000-4-6:2013)	Decoupling network, Decoupling device, Artificial hand, 50Ω Termination, EMI Filter	
5.7	Surges (IEC 61000-4-5:2014/AMD1:2017)	Surge generator, Coupling/decoupling network, RGP	SG61000-5
		CDN for interconnection line, Conical metal housing for single capped lamps	
5.8	Voltage dips and interruptions (IEC 61000-4-11: 2004/AMD1:2017)	Test generator, oscilloscope	CSS61000-11