



**PERMANENT DOCUMENT**

**ENEC 303  
Annex A**

**Annex A  
to Routine Test Requirements for manufacturers  
(as per Article 9 of the Agreement)  
Luminaires covered by the EN 60598 series**

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# **Annex A to PD ENEC 303**

## **for luminaires covered by the EN 60598 series**

### **1 ROUTINE TESTS (100%)**

#### **1.1 Inspection**

Visual inspection shall take place to ensure that:

- a) all specified labels are securely in place;
- b) manufacturers' instructions are placed with the luminaire, where necessary;
- c) visual inspection of luminaire for completeness and mechanical check against a checklist for the product.

#### **1.2 Operating check**

The luminaire shall be connected with proper lamps for the correct operating. Otherwise a circuit giving sufficient assurance of correct operating can be used, as alternative.

#### **1.3 Electric strength / Insulation resistance test**

Please refer to EN 60598-1 Annex Q (Table Q.1 Minimum values for electrical tests)

#### **1.4 Earth continuity (only for class I)**

Please refer to EN 60598-1 Annex Q. (Table Q.1 Minimum values for electrical tests)

### **2 PRODUCT VERIFICATION TESTS (PVT) (at least once a year)**

#### **2.1 Endurance test (Clause 12.3)).**

This test shall be carried out on the most critical type of each range of luminaires. Please note that this test is only applicable to luminaires with an IP Class of 20 or above.

#### **2.2 Protection of the enclosure(Clause 9).**

*Note: if the appliance is IK rated under ENEC certification, the IP test has to be performed after IK verification tests*

#### **2.3 Mechanical strength of screws and nuts (Clause 14).**

#### **2.4 Protection against electric shock (clause 8) and creepage distances and clearances (clause 11).**

#### **2.5 Stability of portable luminaires (EN 60598-2-4 Clause 4.6.3)**

#### **2.6 PHOTOBIOLOGICAL Hazard (EN 62471 , and IEC TR62778)**

##### **2.6.1 Blue light hazard**

Only required for luminaires containing LED, metal halide and some special tungsten halogen lamp type.

Note: Luminaires containing light sources not exceeding RG1 unlimited (IEC TR62778) do not need periodic assessment for blue light hazard.

Where assessment is needed, the following applies.

Threshold illuminance  $E_{thr}$  assessment according to IEC TR 62778

#### 2.6.2 UV hazard

Periodic reassessment for UV hazard is not considered necessary as this is controlled by the safety requirements for the light source or by the use of any glass filter fitted to the luminaire.

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