

“Lamps, luminaires & other electric equipment.

Definitions relevant to WEEE”

April 2018

Rev.1



Intention, benefits & affected areas

- **Intention**

- Simple definition to achieve clarity and legal safety for lighting products from registration till treatment
- To support stakeholders with compliance schemes handling

- **Benefit**

- Reduced irritation and consultation between the actors

- **Affected areas**

- Registration, Reporting, Collection, Financing mechanisms

- **Status**

- EucoLight agreed to the following text jointly with LightingEurope

Available categories according to WEEE Directive

- **Till 2018**

- Lamps
- Luminaires

- **From 2018**

- Lamps
- Small electronic appliances
- Large electronic appliances

Lamp – A definition

A lamp is a replaceable electrical device that produces light from electricity, amongst other functions. They are intended to be used in luminaires amongst other devices. These lamps usually have a base made of ceramic, metal, glass or plastic, which secures the lamp in a **standardized** socket, which may be made with a screw-thread base, two metal pins, two metal caps or a bayonet cap (See list attached) to allow the replacement of the lamp without tools.

Lamp – A definition (cont.)

Main categories of lamps are:

- **Incandescent lamps:** which produce light by a filament heated by electric current.
- **Gas-discharge lamps:** which produce light by means of an electric arc through a gas.
- **Retrofit LED lamps:** which produce light by a flow of electrons across a band gap in a semiconductor. The light-emitting diodes (LED) are assembled into Retrofit LED lamps with standardized sockets and are used to replace incandescent lamps or discharge lamps.

Luminaires – A definition

A **luminaire** is an electrical device used to create artificial light by use of an electric lamp or integrated LED module, which primary function is to deliver light. All light fixtures have a fixture body and a connection to the energy supply.



The energy supply could be via cable or batteries (e.g. lamp torch)

The light source can be attached to the fixture via a socket, via a non-standardized mechanical and electrical connection or could be an integrated part of the luminaire.

Luminaires will be categorized as Small & Large Appliances from 2018 onwards

LED Module – A definition

LED module or LED light engine is an LED component which is standard or custom-built with several light emitting diodes on a printed board with electrical connection and cooling component.

Module, Component and LED chips do not belong to a category of the WEEE directive and are out of scope as they :

- are components of EEE
- will be assembled into a product which is then within the scope.



LED modules are not to be considered as lamps

Some concrete examples: modules and other components

Modules and other components don't have to be declared as EEE

- **Modules replaceable without tools** are not lamps because their shape would not be recognized as lamp
- **Strips:**
 - Strips with power supply are to be considered as a Luminaire (small/large appliance from August 2018)
 - Strips without power supply are components and are not to be considered as a luminaire or a lamp.
- **Starters and ballast/drivers** are components



Lighting controls

- **External Lighting Controls with independent function** are products which allow, for example, the control of different lighting levels and color mixes and provide several benefits such as, saving energy, reducing operational costs of lighting, adding sensor functionalities e.g. motion detection and daylight adjustment, increasing the flexibility and giving lighting a dynamic dimension. **They have to be declared as EEE under category 5 (small equipment), as appropriate**
- **Internal Lighting Controls** are to be considered components