

## Precautions for Electro Static Damage ESD

LEDs and LED products are sensitive for static electricity. There are several precautions for proper ESD safe handling.

### Handling:

Make sure working persons are trained in ESD safe handling of LEDs and LED products and are always properly grounded when working with LEDs and LED products.

We suggest to always use the following equipment when working with LEDs and LED products:

- Grounded conductive floor mats
- Grounded conductive table mats (with the same potential as the floor)
- Conductive shoes or slippers to be worn by the persons handling the LEDs
- Grounded conductive wrist band to be worn by the persons handling the LEDs
- Anti-electrostatic gloves to handle the LEDs (these will also help to protect the LEDs from contamination with dirt and other substances)
- Grounded working equipment, e.g. soldering irons, calibration equipment and other tools
- Anti-electrostatic clothing to be worn by persons handling the LEDs
- Ionized air blower
- Humidifier (especially in a dry working environment)

### Delivery:

The LEDs and LED products have to be transported in a conductive container.

### Storage:

The LEDs and LED products have to be stored in a conductive container located on a grounded surface.

### Operation:

Prevent LEDs and LED products from electrostatic discharge.

Only use EMC approved power supplies.

Use additional EMC protective electronic components, if your application or environment requires it.