

Cold Cathode Lamps: Summary of related norms.

The main Norms on cold cathode lamps are briefly listed below; keeping in mind such a list can be not be up dated ESF Technical Committee wishes to provide a guideline to all whom are involved in the sign industry.

The Norms are divided by branch, i.e. installation, lighting fixtures and components. While the first two branches do concern the installers the latter is primarily aimed at component manufacturers.

Installation of cold cathode lamps:

EN 50107-1:2002 and A1:2004 "Signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 kV but not exceeding 10 kV -- Part 1: General requirements"

IEC 60364-1:2005 "Low voltage installations. Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions "Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions.

Norms for Luminaires with cold cathode tubular discharge lamps:

EN 60598-1:2008 and A11:2009 "Luminaires -- Part 1: General requirements and tests"

EN 60598-2-14:2009 "Luminaires -- Part 2-14: Particular requirements - Luminaires for cold cathode tubular discharge lamps (neon tubes) and similar equipment"

EN 60529:1991/A1:2000 "Degrees of protection provided by enclosures (IP Code)"

Norms of components:

EN 61050:1992 and A1:1995 "Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 kV (generally called neon-transformers) - General and safety requirements"

EN 61347-2-10:2001 and A1:2009 "Lamp controlgear -- Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)"

EN 50107-2:2005 "Signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 kV but not exceeding 10 kV -- Part 2: Requirements for earth-leakage and open-circuit protective devices"

EN 50143:2009 "Cables for signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 000 V but not exceeding 10 000 V"