

COLLECTION OF CTL DECISIONS

Standard: IEC/EN 60598-1 IEC/EN 60598-2-6 IEC/EN 61347-2-2 IEC/EN 61347-2-11 IEC/EN 60825-1	Sub clause: General Section 12	Sheet N°: 005/05 Page: 1(1)
Subject: Luminaires provided with LEDs	Key words: - Control gears - Section 12 - IEC/EN 60825-1	Meeting: CTL No. 42 WG1 No. 1 - 2 - 3 Item: 10.5.1

Question: Is it possible to issue approvals on luminaires provided with LEDs light source?

Decision: Yes, provided that:

(1) The LED circuit is verified according to IEC/EN 61347-2-2 (*) or IEC/EN 61347-2-11. If the laser emits radiation in the wavelength range from 180 nm to 1 mm, the LED shall also be tested according to IEC/EN 60825 –1 (Safety of laser products). Only LEDs classified as Class 1 lasers can be used without problems for lighting purposes without protection.

(2) The thermal tests required in Section 12 of IEC/EN 60598-1 are carried out as follows:

(a) Luminaires (Class I or II) with built-in control gear can be tested according to the requirements of IEC/EN 60598-2-6.

(b) For Class III luminaires, the luminaire manufacturer shall provide on the instructions all the necessary information to supply the LED circuit correctly or shall inform the Testing Station about the trade mark, the type and the technical characteristics of the appropriate control gear. There can be three different control gears: the type and the trade mark indicated by the luminaire manufacturer; an electronic control gear clearly specified on the luminaire instructions; a ferromagnetic control gear. The tests shall be carried out as required in Section 12 according to IEC/EN 60598-2-6 with the appropriate control gear.

(*) When IEC/EN 61347-2-13 will be published, it will take over IEC/EN 61347-2-2.

Explanatory notes: The matter is under discussion in Lumex/Comex; we wait for the

relevant outcome.