

## CTL Provisional Decision

<b>Standard:</b> IEC/EN 60598-1 IEC/EN 60598-2-6 IEC/EN 61347-2-11 IEC/EN 61347-2-13 <u>IEC 60825-1/1993 (§)</u> <u>EN 60825-1/1994 (#)</u>	<b>Sub clause:</b> General Section 12	<b>Sheet N°:</b> 005/07  <b>Page:</b> 1(1)
<b>Subject:</b> Luminaires provided with LEDs	<b>Key words:</b> - Control gears - Section 12 - IEC/EN 60825-1 (§) - (#)	<b>Meeting:</b> To be approved at CTL 45 <sup>th</sup> meeting
<p><b>Question:</b> Is it possible to approve luminaires provided with LEDs?</p> <p><b>Decision:</b> Yes, provided that:</p> <ul style="list-style-type: none"> <li>- the LED circuit shall be verified according to IEC/EN 61347-2-13 or IEC/EN 61347-2-11 <u>(*)</u> and the LED shall be tested according to IEC/EN 60825 –1 (Safety of laser products) <u>(§)-(#)</u>, if it has laser radiation in the wavelength ranging from 180 nm to 1 mm. Only LEDs classified as Class 1 lasers can be used without problems for lighting purposes without protection.</li> <li>- The thermal tests required in Section 12 of IEC/EN 60598-1 shall be carried out as follows:           <ol style="list-style-type: none"> <li>a) Luminaires (Class I or II) with built-in control gear shall be tested according to the requirements of IEC/EN 60598-2-6.</li> <li>b) For Class III luminaires the manufacturer shall provide the necessary information to power up the LED circuit correctly in the instruction sheet. Alternatively, the manufacturer shall inform Testing Station about the trade mark, the type and the technical characteristics of the appropriate control gear to be used. There are three different control gears namely, the type and the trade mark as indicated by the luminaire manufacturer; an electronic control gear clearly specified in the luminaire instruction sheet and 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.</li> </ol> </li> </ul> <p><b><u>(*) When IEC/EN 62031 (34A/1168/CDV) will be published, it will takes over IEC/EN 61347-2-11.</u></b></p> <p><b><u>(§) + A1/1997 + A2/2001</u></b></p> <p><b><u>(#) + A1/2002 + A2/2001</u></b></p> <p><b>Explanatory notes:</b> The matter is under discussion in Lumex/Comex; we will wait for the relevant outcome.</p>		