

DECISION SHEET

Standard: IEC/EN 60598-1 IEC/EN 60825-1	Sub clause: General	Sheet N°: 297/05 Page: 1(1)
Subject: LEDs used as a light source in luminaires	Key words: - LEDs - Harmful radiation - Light intensity	Meeting: Decision confirmed at CTL 42nd meeting
<p>Question: How to handle LEDs used in luminaires due to possible harmful radiation.</p> <p>Decision: In principle apply the requirements given in IEC/EN 60825-1. However in order to avoid expensive measurements, the luminaires provided with LEDs should be treated in the following:</p> <ul style="list-style-type: none"> - If the light intensity is low, i.e. from a conventional LED for indication or signalling purposes, the LED is most likely comparable with a laser of Class 1 according to IEC/EN 60825-1 and consequently there is no need measurements. During the judgement the covers, optics and similar, which can be removed by hand, shall be removed. In the TRF it is indicated that the light intensity has been judged to comply with the limits given for Class 1 lasers in IEC/EN 60825-1 and no measurements are made. - In all other cases the luminaire manufacturer shall be asked to provide a declaration based on relevant tests (e.g. from the LEDs manufacturer) showing that the radiation from the LED module will not exceed the values given in IEC/EN 60825-1 for Class 1 or 1M lasers with or without optics. In the TRF it is noted that judgements have been based on a manufacturer declaration. - If such a declaration cannot be provided or if we are insecure on how to judge, the measurements given in IEC/EN 60825-1 shall be performed. In the TRF it is indicated that measurements have been performed. For luminaires containing light sources providing radiation according to Class 2 lasers, the luminaire shall be treated as a laser source according to IEC/EN 60825-1 and comply with the requirements given in that standard. <p>Information about the action taken in relation to the LED radiation should be given in the square “Summary of testing” on page 2 of the relevant TRF.</p> <p>Explanatory notes: This Decision Sheet apply until relevant requirements are introduced in IEC/EN 60598-1.</p>		