

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s):	Tracking No.	Year
EN 60598-1:2015/A1:2018 EN 62031/2008/A1:2013	Section 12	DSH 0919B	2019
Category:			
LITE			
Subject:	Key words:	Developed by	Approved at
Luminaires provided with LEDs	- LEDs / LED modules - Thermal tests - Luminaires Class I / II / III	OSM/LUM-ETF5	2019 ETICS Plenary Meeting
Question			
How to handle thermal tests for luminaires using LEDs or LED modules?			
Decision			
<p>The thermal tests required in Section 12 of IEC/EN 60598-1 shall be carried out as follows:</p> <ul style="list-style-type: none"> A) Luminaires (Class I or II) with built-in control gear shall be tested according to the requirements of EN 60598-1:2015. B) For Class III luminaires the manufacturer shall provide the necessary information about the rated input voltage and rated input current to the luminaire and this information shall be marked on the luminaire. C) For Class III luminaires the endurance test has to be carried out at 1.1x rated input voltage of the luminaire in the case of a constant voltage input, or 1.1x rated current in the case of a constant current input. The total duration shall be 240 hours (10 x 24 cycles at normal operation). D) For Class III luminaires the thermal tests according to 12.4 and 12.5 (if applicable) shall be carried out at 1.1x rated input voltage of the luminaire in case of a constant voltage input, or 1.1x rated current in the case of a constant current input. 			
Explanatory notes			
