

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s):	Tracking No.	Year
IEC 60598-1 edition 7 and older	8.2.1	DSH 0896	2014
Category:			
LITE			
Subject:	Key words:	Developed by	
Luminaires with LEDs	<ul style="list-style-type: none"> - Sub clause 8.2.1 - Lamp compartment - Two lines of defence 	ETF5-OSM/LUM	
Question			
<p>More and more luminaires with LEDs will be used for normal lighting. Not all are supplied with SELV control gears. For the user often it cannot be seen in a case of failure (falling out of the light source) which light source is behind the cover. Sub clause 8.2.1 requires protection against electric shock even if the operation cannot be achieved by hand. We heard that other Test Houses allow the accessibility of live LEDs units after opening of the lamp compartment with normal tools, as screwdrivers, coins or other object that may be used to operate a screw or similar fixing means.</p>			
Decision			
<p>The requirements of sub clause 8.2.1 shall be applied also for luminaires with LEDs. The LEDs unit, independent whether connected to the internal supply with terminals or connectors, shall be seen as a replaceable light source according to the requirements of the standard. In other cases (if not replaceable and/or not fed by a SELV source) it shall not be possible to open the lamp compartment with normal tools or the live parts shall be insulated by an insulation corresponding to basic insulation for 230 V (two lines of defence).</p>			
Explanatory notes			
<p>With the 8 edition of IEC 60598-1 the standard is clear (see Cl. 4.29 and Cl. 4.30).</p>			