

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s):	Tracking No.	Year
EN 60598-1:2015/A1:2018	0.5	DSH 0822A	2019
Category:			
LITE			
Subject:	Key words:	Developed by	Approved at
Series – compensated luminaire (working voltage)	<ul style="list-style-type: none"> - Series capacitors - 450 V - Working voltage 	OSM/LUM-ETF5	2019 ETICS Plenary Meeting
Question			
<p>In a series-compensated luminaire the following sequence of components is required: Main supply L - capacitor - ballast - lamp - mains supply N. In a luminaire connected by a plug, this sequence cannot be guaranteed, which will imply that the voltage of about 450V between the capacitor/ballast and earth may occur in class I luminaires.(How about Class II luminaires?). This means that the capacitor/ballast in luminaires of the relevant kind must be provided with an insulation to the metal enclosures, complying with a working voltage of 500V.</p>			
Decision			
<p>In case of luminaires with series capacitors connected to the supply by means of a plug, the test with regard to the creepage and clearances distances, the dielectric strength test etc. will be tested for a working voltage of 500V.</p>			
Explanatory notes			
