

COLLECTION OF CTL DECISIONS

Standard: IEC 60598-1/1999	Sub clause: 0.5	Sheet N°: 015/03
		Page: 1 (1)
Subject: Series - compensated luminaire (working voltage)	Key words: - Series capacitors - 450 V - Working voltage	Meeting: OSM/LUM No. 9 WG1 No. 1 - 2 Item: 01

Question: 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 500 V.

Decision: 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.

Explanatory notes: --

