

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
EN 60929:2011/A1:2016	7	DSH 0995A	2019
Category			
LITE			
Subject	Keywords	Developed by	Approved at
Voltage across lamp during pre-heating time	<ul style="list-style-type: none"> - Residual d.c. voltage - Measurement - Pre-heating time 	OSM/LUM-ETF5	2019 ETICS Plenary Meeting

Question

The standard requires that during the pre-heating time, the open circuit voltage across the lamp substitution resistor, shall not exceed the maximum values specified on the lamp data sheets. On the ballast in question we found during the pre-heating time an open circuit voltage waveform which is the sum of a d.c. voltage and the high frequency voltage created by the oscillating circuit. If we measure the voltage in this condition, we find a value which is higher than the limit. The d.c. voltage is a residual voltage stored in a little capacitor of about 5-10 nF and has not enough energy to start or to damage the lamp. If we repeat the measurement with a high resistance (10 KΩ) between the two cathodes, we find the indicated voltage waveform. In this condition the test is OK.

Decision

Do not take into consideration the residual d.c. voltage when making the measurement.

Explanatory notes

Figure 1

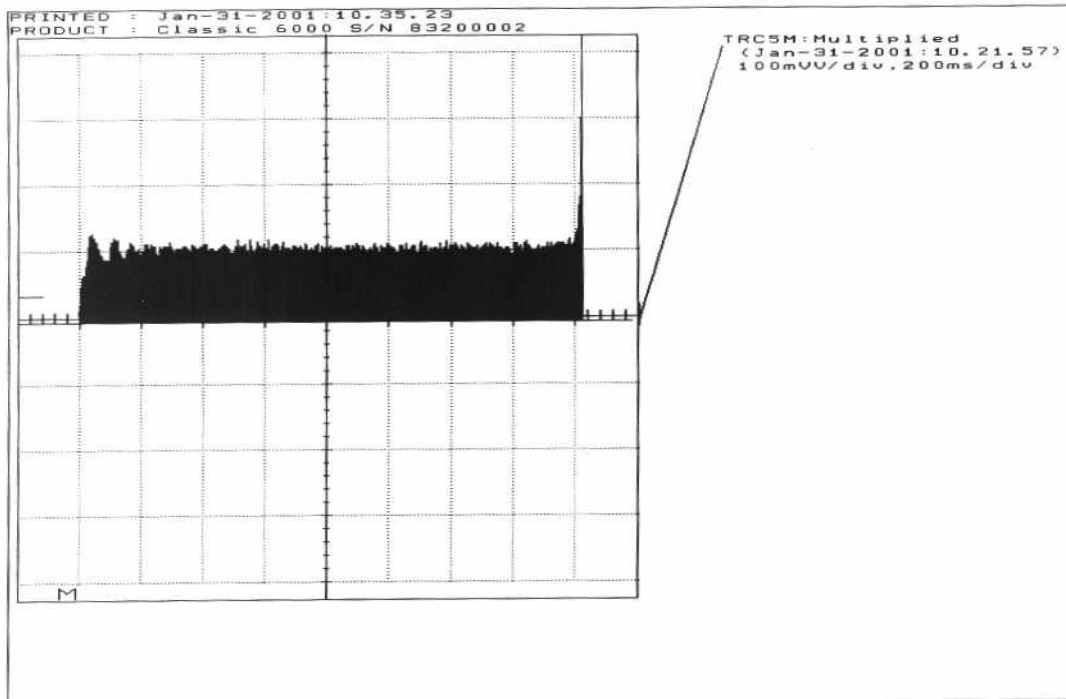


Figure 2

