

Amendment No. 4 approved on 2014-04-24  
To SLS 1231 Part 1: 2002

**SRI LANKA STANDARD SPECIFICATION FOR SELF BALLASTED LAMPS AND  
MODULAR TYPE COMPACT FLUORESCENT LAMPS FOR GENERAL LIGHTING  
SERVICES**

**Part 1: Performance requirements**

**Item 1 Clause 4.8.2**

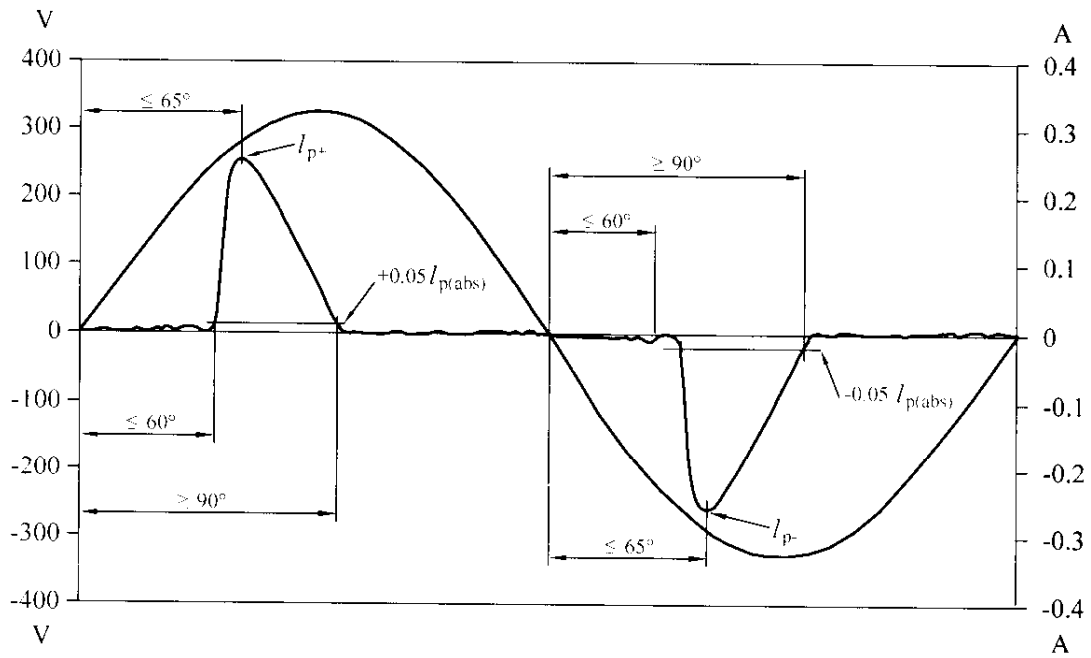
Delete the entire clause and substitute with the following:

**4.8.2** If the lamp active input power  $\leq 25$  W, the harmonic currents shall not exceed the relative limits given in Table 2 or the requirements given in (b).

**a) TABLE 2-Harmonic current limits for lamps (active power  $\leq 25$  W)**

<b>Harmonic order n</b>	<b>Maximum permissible harmonic current per Watt mA/W</b>
<b>(1)</b>	<b>(2)</b>
3	3.4
5	19
7	10
9	0.5
11	0.35
$13 \leq n \leq 39$ (odd harmonics only)	<del>3.85</del> $\frac{3.85}{n}$

- a) The third harmonic current, expressed as a percentage of the fundamental current, shall not exceed 86 % and the fifth harmonic current shall not exceed 61 %. Also the waveform of the input current shall be such that it reaches the 5 % current threshold before or at 60°, has its peak value before or at 65° and does not fall below the 5 % current threshold before 90°, referenced to any zero crossing of the fundamental supply voltage. The current threshold is 5 % of the highest absolute peak value that occurs in the measurement window, and the phase angle measurements are made on the cycle that includes this absolute peak value. See Figure 6.



NOTE  $I_{p(abs)}$  is the higher absolute value of  $I_{p+}$  and  $I_{p-}$ .

**FIGURE 6 - Illustration of the relative phase angle and current parameters described in 4.8.2(b)**