

SRI LANKA STANDARD 1225 : 2016

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**SRI LANKA STANDARD SPECIFICATION FOR
ENERGY EFFICIENCY RATING FOR SELF-
BALLASTED INTEGRAL TYPE COMPACT
FLUORESCENT LAMPS FOR GENERAL
LIGHTING SERVICES
(First Revision)**

SRI LANKA STANDARDS INSTITUTION

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INTEGRAL TYPE COMPACT FLUORESCENT LAMPS
FOR GENERAL LIGHTING SERVICES
(First Revision)**

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Gr. 8

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FOREWORD

This Sri Lanka standard for Energy Efficiency Rating for Integral type compact fluorescent lamps was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2016 -07 -22 after the draft finalized by the Technical Committee and the Advisory Committee for Appliance Energy Labelling of the Sri Lanka Sustainable Energy Authority and had been approved by the Sectoral Committee on Electrical Appliances and Accessories.

This is the first revision of **SLS 1225**. This revision introduces new requirements for luminous flux, wattage and colour correction coefficient. In calculation of efficacy for CFLs having rated wattage greater than 23 W, only rated wattage is considered excluding the 0.4 W under this revision. Further CFLs with rated wattage greater than 60 W will be assigned star rating in accordance with the Table 3 specified in 7.3.2.

This Sri Lanka Standard Specification for Energy efficiency rating for Compact Fluorescent Lamps has been published for the promotion of the use of efficient lamps for saving electrical energy. Five categories of energy efficiency ratings have been identified based on the efficacy and power factor of the lamp. The best energy efficiency rating is assigned with “five stars”. The number of stars assigned reflects the efficiency of the model of the lamp. More stars means more energy efficient.

This standard specifies method of determination of the efficiency ratings by a number of stars assigned for a specific rating. It also specifies methods of measurement of luminous flux, power consumption and the requirements for the energy label, which should be displayed on the container of the lamp. The label carries the approved number of stars for a particular model of the lamp.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or measurement, shall be rounded off in accordance with **SLS 102**. The number of significant figures to be retained in the rounded off value shall be the same as that of the specified value in this standard.

All the values given in this specification are in SI units.

In the preparation of this standard, the Sri Lanka Standards Institution and the Sri Lanka Sustainable Energy Authority gratefully acknowledge the use of following publications.

- a) **IEC 60969: 2001** Self ballasted lamps: Performance requirements, of the International Electrotechnical Commission,
- b) **JIS C 7607 : 1991** Total luminous flux measurements on discharge lamps used for photometric standards of the Japanese Standards Association and
- c) **CIE 84 : 1989** Report on Measurement of Luminous flux of the International Technical Commission on Illumination.

* CIE – International Technical Commission on Illumination