Explanatory Memorandum
Draft Ministerial Regulation
Definitions of energy-efficient light fittings for double-capped fluorescent lamps

B.E. ...

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Principle
Definitions of energy-efficient light fittings for double-capped fluorescent lamps

Rationale
It is hereby deemed appropriate and necessary to define a light fitting with an energy consumption value not lower than as specified in this ministerial regulation as an energy efficient light fitting for a double-capped fluorescent lamp. The objectives of this regulation are to conserve energy and promote the use of energy efficient materials. This will provide the manufacturers and sellers of such products with the right to support and assistance from the Energy Conservation Promotion Fund. It will encourage and promote their manufacture and sale. Consumers will be able to use energy economically and efficiently, and will have the option to use energy efficient light fittings for double-capped fluorescent lamps. This will promote the country’s energy consumption efficiency and reduce pollution.
DRAFT
Ministerial Regulation
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In accordance with Section 6, Clause 2 and Section 23, Clause 1(3) and Clause 3 of the Energy Conservation Promotion Act, B.E. 2535, with amendments made to the Energy Conservation Promotion Act (Issue 2), B.E. 2550 containing a number of provisions related to the limitation of private rights and liberties as permitted in Section 29, together with Section 33, Section 41 and Section 43 of the Constitution of the Kingdom of Thailand – with the guidance of the National Energy Policy Committee – the Minister of Energy issues a ministerial regulation as follows:

1. In this ministerial regulation:

“Light fitting” means a fitting for a double-capped fluorescent lamp to distribute, filter and emit the light sourced from a double-capped fluorescent lamp. The back of the fitting is fixed in a prepared slot on an installation surface according to the types specified in this regulation.

“Double-capped fluorescent lamp” means a hollow tube fluorescent lamp in a linear shape for general lighting purposes, and used with separate receptacles and single-phase alternating current at a maximum of 250 volts and a frequency of 50 Hertz. Excluding: colour double-capped fluorescent lamps or those generating invisible off-spectrum light; double-capped fluorescent lamps for colour matching where colour appears at one point of a black body locus; double-capped fluorescent lamps for use in industrial and agricultural processes; double-capped fluorescent lamps for medical purposes; and double-capped fluorescent lamps that are restricted by law and used only in specific conditions other than general lighting and can be distinguished from those for general lighting.

“Energy standard value” means the ratio of light intensity emitted from a light fitting, over the light intensity emitted from double-capped fluorescent lamp. The unit is a percentage.
2. An energy efficient light fitting must have an energy consumption efficiency value not lower than as specified in this ministerial regulation, considering the economic situation, the government’s energy policy, the readiness of the manufacturers and sellers of the light fittings, as well as support and assistance provided to these manufacturers and sellers.

The energy consumption efficiency value must be defined by light fitting types as follows:

<table>
<thead>
<tr>
<th>Light Fitting type</th>
<th>Energy standard value (per cent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Louver Fittings</td>
<td>88.0 – 100.0</td>
</tr>
<tr>
<td>2. Diffuser Fittings</td>
<td>76.0 – 87.0</td>
</tr>
<tr>
<td>3. Industrial Fittings</td>
<td>91.0 – 100.0</td>
</tr>
</tbody>
</table>

3. The formula for calculating energy standard value is as follows:

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\text{Energy standard value} = \frac{\text{Light intensity from the fitting (lumens)}}{\text{Light intensity from the fluorescent Lamp (lumens)}} \times 100
\]

4. The test for finding the energy standard value of a light fitting must be carried out by the organisations specified and announced by the minister.

5. The standards and methodology of the test for determining the energy standard value of a light fitting must comply with the specifications published by the minister.

Given on: B.E. ...

Minister of Energy