G/TBT/N/THA/323

Explanatory Memorandum

Draft Ministerial Regulation
Definitions of high efficiency self-ballasted lamps

B.E. ...

Principle

Definition of the energy consumption efficiency value of high efficiency self-ballasted lamps for local manufacture rs and sellers.

Rationale

In accordance with Section 6 and Section 23, Clause 1(2) of the Energy Conservation Promotion Act, B.E. 2535, with amendments made to the Energy Conservation Promotion Act (Issue 2), B.E. 2550 on the conservation of energy in machinery or equipment, and on the promotion of the use of energy-efficient materials and equipment, the Minister of Energy – with the guidance of the National Energy Policy Committee – shall issue a ministerial regulation, in which it is deemed appropriate and necessary to define a self-ballasted lamp with an energy consumption efficiency value not lower than is specified in this ministerial regulation as a high efficiency self-ballasted lamp. The objectives of this regulation are to conserve energy and to 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 the manufacture and sale of such products and give consumers the option to use high efficiency self-ballasted lamps. This will promote the country’s energy consumption efficiency and reduce pollution.
In accordance with Section 6 and Section 23, Clause 1(2) 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 liberty 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:

“Self-ballasted lamp” means a lamp that includes a ballast inside as a complete product from the manufacturer. The equipment cannot be disassembled without permanently damaging the unit. The lamp holder is connected to a light emitting unit and other necessary parts to start the lamp and stabilise the light emission.

“Colour temperature” means the temperature of a black body giving the same colour temperature as the lamp. For example, a ‘daylight’ fluorescent lamp has a colour temperature of approximately 6 500 Kelvin, while a ‘warm-white’ type has a colour temperature approximately 2 700 Kelvin.

“Energy consumption efficiency value” means the energy consumption efficiency of a self-ballasted lamp.

“Manufacturer” means an enterprise that produces or assembles self-ballasted lamps, either locally or abroad.

“Seller” means an enterprise that sells self-ballasted lamps in the country, where the products are either produced locally or imported.
2. A high efficiency self-ballasted lamp must have an energy consumption efficiency value not lower than the values specified in the following table:

<table>
<thead>
<tr>
<th>Wattage range (watts)</th>
<th>T • 4400 K (lumens per watt)</th>
<th>T &gt; 4400 K (lumens per watt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 8</td>
<td>53 – 65</td>
<td>53 – 65</td>
</tr>
<tr>
<td>9 to 14</td>
<td>60 – 70</td>
<td>60 – 70</td>
</tr>
<tr>
<td>15 to 24</td>
<td>65 – 75</td>
<td>62 – 75</td>
</tr>
<tr>
<td>25 to 60</td>
<td>70 – 85</td>
<td>67 – 80</td>
</tr>
</tbody>
</table>

In order to promote energy conservation, the minister shall review these definitions of energy consumption efficiency at least once every five years, taking into consideration the economic situation, the government’s energy policy, the readiness of manufacture and sales, as well as support and assistance given to the manufacturers and sellers of self-ballasted lamps.

3. The formula for calculating the energy consumption efficiency value of a self-ballasted lamp is as follows:

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\text{Initial energy consumption efficiency value (lumens per watt)} = \frac{\text{Initial lumens}}{\text{Initial wattage}}
\]

4. The test for finding the energy consumption efficiency value of a self-ballasted lamp must be carried out by the organisations specified and announced by the minister.

5. The standard and methodology of the test for determining the energy consumption efficiency value of a self-ballasted lamp must comply with the specifications as published by the minister in the Official Gazette.

6. This ministerial regulation is effective from the date on which it is published in the Official Gazette.

Given on: B.E. ...

Minister of Energy