

Requirements on Minimum Energy Performance Standard, Energy Efficiency Indication, and Inspection for Double-Capped LED Lamps

Subject : Announcement for the Requirements on Minimum Energy Performance Standard, Energy Efficiency Indication, and Inspection of Double-Capped LED Lamps

Legal Basis : Paragraph 4, Article 14 of the Energy Administration Act

Announcements :

1. The double-capped LED lamps (LED lamps) herein this Announcement are those meeting the definition of LED lamps in National Standards of the Republic of China (CNS) 16027, and promulgated by the Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs (MOEA) as products requiring inspection. However, this Announcement and the Requirement do not apply to LED lamps that the rated value and the measured value of Color Rendering Index (CRI) are both above 95.
2. LED lamps shall comply with the following requirements:
 - (1). Initialization value of measured power consumption of LED lamps shall be examined in accordance with the relevant regulations set forth in CNS 16027, and it shall be rounded off to the first decimal place. The initialization value of measured power consumption shall be between 90% and 110% of the rated value. However, for LED lamps with the rated power below 5.0W, the initialization value of the measured power consumption shall be between 80% and 120% of the rated value.
 - (2). Initialization value of measured luminous flux of LED lamps shall be examined in accordance with the relevant regulations set forth in CNS 16027, and it shall be rounded off to the nearest integer. The Initialization value of the measured luminous flux shall be between 90% and 120% of the rated value.
 - (3). Measured Luminous Efficacy of LED lamps shall be examined in accordance with the relevant regulations set forth in CNS 16027, and the measured value of Luminous Efficacy shall be rounded off to the first decimal place. The measured value shall not be lower than 95% of the rated value and the value mentioned in the minimum energy performance standard (MEPS) of LED lamps (Table 1).
3. The rated power consumption, rated luminous flux and rated luminous efficacy shall be marked on LED lamps or the smallest package of LED lamps.
4. The Central Competent Authority may conduct annual product sampling in accordance with Guidelines for Energy Efficiency Labeling Inspection and Energy Efficiency Sampling of Designated Energy Using Equipment and Devices while conducting energy efficiency inspection. The model number and quantity of testing sample shall be designated by the Central Authority, and manufacturers shall send product samples to designated testing laboratories within allowed time limit.

For products fail to meet the requirements in section 2, the Central Competent Authority will request related manufacturers to re-submit samples for re-testing. The re-tested samples shall be of the same model and twice as many as the first-tested samples. All the incurred cost associated with the re-testing shall be borne by manufacturers.

If manufactures do not conduct re-testing, or not all re-tested samples meet the energy efficiency requirements, actions will be taken according to Article 21 and Article 24 of the Energy Administration Act.

Table 1 MEPS for LED lamps

Classification	non-dimmable AND non-color point adjustable products		Dimmable OR color-point adjustable products
	Rated light output \geq 600 lumens	Rated light output <600 lumens	
Luminous Efficacy (initial lm/W)	105.0	95.0	95.0

Note: The measured luminous efficacy is the initial value of the measured lumen divided by the initial value of the measured wattage of the same LED lamp.