

Requirements on Minimum Energy Performance Standard, Energy Efficiency Indication, and Inspection for Fluorescent Lamps (Amendment Draft)

Subject: Amendment to the Requirements on Minimum Energy Performance Standard, Energy Efficiency Indication, and Inspection of Fluorescent Lamps (for General Lighting Service)

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

Announcement: :

1. The Fluorescent Lamps (for General Lighting Service) stated in this Announcement refer to those meeting the definition of fluorescent lamps (for general lighting service) in CNS 691 and promulgated by the Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs (MOEA) as products requiring inspections. However, this Announcement and the Requirements do not apply to colored fluorescent lamps of which the rated value and the measured value of Color Rendering Index (CRI) are both above 95 and used for plant growing, insect trapping, and sanitizer or in semiconductor field.
2. The testing of Fluorescent Lamps (for General Lighting Service) and the calculation thereof shall comply with the following requirements:
 - (1). The color temperature of Fluorescent Lamps (for General Lighting Service) shall be tested in accordance with CNS 691. The measured value shall be rounded off to integer.
 - (2). The luminous efficacy of Fluorescent Lamps (for General Lighting Service) shall be tested in accordance with CNS 691. The measured value shall be rounded off to the first decimal place. The rated and measured value shall not be lower than the value specified in Table 1. The measured value shall be greater than or equal to 95% of the rated value of products.
3. The rated luminous efficacy shall be marked on each individual unit or the smallest packages of Fluorescent Lamps (for General Lighting Service).
4. The Central Competent Authority may conduct annual product sampling in accordance with the Guidelines for Energy Efficiency Labeling Inspection and Energy Efficiency Sampling of Designated Energy Using Equipment and Devices while conducting the energy efficiency inspection. The model and the quantity of the testing samples shall be designated by the Central Competent Authority, and the manufacturers shall deliver product samples to the designated testing laboratories within the period designated by the Central Competent Authority.

For products fail to meet the requirements in Item 2 in the testing under the preceding paragraph, the Central Competent Authority shall request the related manufacturers to re-submit the samples for re-testing. The quantity of the re-tested samples shall be twice the sampling quantity of the products of the same model under the preceding paragraph. All the incurred costs associated with the re-testing shall be borne by the manufacturers.

If manufacturer fails to conduct the sampling or the re-testing per the preceding two paragraphs, or fails to meet the energy efficiency requirements completely in the re-testing, Articles 21 and 24 of the Energy Administration Act shall apply.

Table 1 MEPS for Fluorescent Lamps (for General Lighting Service)

Lamp Type			Lamp Classification	Rated lamp wattage (W)	Luminous efficacy (lm/W)		
					D	CW、N	W、WW、L
Non-T5 Fluorescent Lamp	Linear	Preheat-start type	10	10	64	70	73
			15	11-15	78	83	85
			16、20	16-20	90	94	97
			30	21-30	94	98	101
			32、40、50	Greater than 31	97	101	104
		Rapid-start	20	16-20	90	94	97
			40	31-40	97	101	104
			60	51-60	89	92	95
	Circular	110	100-110	107	107	111	
		20	20, 18	64	65	68	
		22	22, 19	64	65	68	
		30	30, 28	70	70	71	
		32	32, 30	78	79	80	
			40	40, 38	83	89	92

Lamp Type			Lamp Classification	Rated lamp wattage (W)	Luminous efficacy (lm/W)		
					D	CW、N	W、WW、L
T5 Fluorescent Lamp	linear	High efficiency type	14	14	90	94	97
			21	21	94	98	101
			28	28	97	101	104
			35	35	98	102	105
		High output type	24	24	79	82	84
			39	39	84	87	90
			49	49	92	96	99
			54	54	87	90	93
	Circular	80	80	82	85	88	
		22	22	82	85	88	
		40	40	86	89	92	
		55	55	81	84	86	
			60	60	85	88	91

Notes

1. The definition of types and classifications in Table 1 shall follow the definition of CNS 691. The T5 Fluorescent Lamps in the above Table shall refer to the one of T15 glass tube type that complies with CNS 691.
2. If the lamp classification of products is able to fit between two types, it shall be subject to the higher requirements of luminous efficacy of the nearest two types. If the numerical value of products exceeds the largest value numerical of type, it shall be subject to the highest luminous efficacy of same types. In any other event where the lamp classification of products is unfit for Table 1, it shall be subject to the classification of same type, same size and similar power (W).