

Proposed draft to the minimum energy efficiency requirements for compact fluorescent lamps

Effective date: 3 years after announcement.

Type	Diameter classification	Rated lamp power (P)	Luminous efficacy (lm/W)	
			Daylight ¹ (D)	Lamp ¹ (L)
Double lamps(P, PX)	General, Thinner (S)	P • •6W	45	47
	General, Thinner (S)	6W • •P • •7W	50	53
Double lamps(P, PX), Four lamps(D, DX, M, W) Six lamps(T, TX)	General, Thinner (S)	10W	55	58
	General	9W, 13W		
	Thinner (S)	9W, 13W	63	66
	General, Thinner (S)	11W	72	77
	General	14W • •P • •26W	56	60
	Thinner (S)	14W • •P • •26W	62	66
Double lamps(P, PX)	General, Thinner (S)	27W	63	66
Four lamps(D, DX, M, W)	General, Thinner (S)	27W	54	57
Double lamps(P, PX), Four lamps(D, DX, M, W) Six lamps(T, TX)	General, Thinner (S)	28W • •P • •30W	65	69
Double lamps(P, PX)	General, Thinner (S)	P • •30W	72	77
Four lamps(D, DX, M, W) Six lamps(T, TX)	General, Thinner (S)	P • •30W	66	70

Notes:

1. The color temperature of lamps shall be classified in accordance with CNS 10839: Daylight color (D: 5700 ~ 7100K), Lamp color (L: 2600~3150K).
2. The luminous efficacies of Nature color (N: 4600~5400K), Cool White color (CW: 4600~5400K), White color (W:3900~4500K), Warm white color(WW:3200~3700K) lamps shall be required with the value of Lamp color lamp.
3. The luminous efficacy (lm/W) is defined with the ratio of total luminous flux and power for lamp, and the related test method shall be done in accordance with CNS 14576.
4. The tested values of luminous efficacies shall not be less than the value in the above table and shall be greater than 95% of the marked values in products. If the rated power of lamp is not listed in the table, the luminous efficacy shall be required with the larger value in the closer classified group.
5. The appropriate ballasts shall be adopted in the test while there are no reference ballasts for use in CNS 14576 table 3.
6. The specific color lamps for plant growing, worm capturing, semiconductor manufacturing, bacteria sterilizing and high color rendering lamps (Ra >95) shall not be required in this regulation.

Proposed draft to the minimum energy efficiency requirements for self-ballasted fluorescent lamps

Effective date: 3 years after announcement.

Type	Rated lamp power (P)	Luminous efficacy (lm/W)
Without cover	P • • 10W	40
	10W • • P • • 15W	50
	15W • • P • • 25W	60
	P • • 25W	65
With cover	P • • 15W	40
	15W • • P • • 20W	48
	20W • • P • • 25W	50
	P • • 25W	55

Notes:

1. The test method for luminous efficacy (lm/W) shall be done in accordance with CNS 14125.
2. The tested values of luminous efficacies shall not be less than the numbers in the above table and shall be greater than 95% of the marked values in products.