

Department of Energy

§ 429.27

(2) Pursuant to § 429.12(b)(13), a certification report must include the following public product-specific information: The ballast luminous efficiency, the average total lamp arc power, the power factor, the number of lamps operated by the ballast, and the type of lamps operated by the ballast (i.e., wattage, base, shape, diameter, and length).

(c) *Rounding requirements.* (1) Round ballast luminous efficiency to the nearest thousandths place.

(2) Round power factor to the nearest hundredths place.

(3) Round average total lamp arc power to the nearest tenth of a watt.

[76 FR 12451, Mar. 7, 2011; 76 FR 24769, May 2, 2011, as amended at 81 FR 25600, Apr. 29, 2016; 85 FR 56493, Sept. 14, 2020]

§ 429.27 General service fluorescent lamps.

NOTE 1 TO § 429.27: Prior to February 17, 2023, certification reports must be submitted as required either in this section or 10 CFR 429.27 as it appears in the 10 CFR parts 200 through 499 edition revised as of January 1,

2022. On or after February 17, 2023, certification reports must be submitted as required in this section.

(a) *Determination of Represented Value.* Each manufacturer must determine represented values, which include certified ratings, for each basic model by testing, in accordance with the following sampling provisions.

(1) Units to be tested.

(i) When testing, use a sample comprised of production units. The same sample of units must be tested and used as the basis for representations for rated wattage, average lamp efficacy, color rendering index (CRI), and correlated color temperature (CCT).

(ii) For each basic model, randomly select and test a sample of sufficient size, but not less than 10 units, to ensure that represented values of average lamp efficacy are less than or equal to the lower of:

(A) The arithmetic mean of the sample; or

(B) The lower 95 percent confidence limit (LCL) of the true mean divided by .97, where:

$$LCL = \bar{x} - t_{.95} \left(\frac{s}{\sqrt{n}} \right)$$

And \bar{x} is the sample mean; s is the sample standard deviation; n is the number of samples; and $t_{.95}$ is the t statistic for a 95% one-tailed confidence interval with n-1 degrees of freedom (from Appendix A).

(2) Any represented values of measures of energy efficiency or energy consumption for all individual models represented by a given basic model must be the same.

(3) Represented values of CCT, CRI and rated wattage must be equal to the arithmetic mean of the sample.

(b) *Certification reports.* (1) The requirements of § 429.12 apply to general service fluorescent lamps; and

(2) Pursuant to § 429.12(b)(13), a certification report shall include the following public product-specific information: The testing laboratory's ILAC accreditation body's identification number or other approved identification assigned by the ILAC accreditation body,

average lamp efficacy in lumens per watt (lm/W), rated wattage in watts (W), CCT in Kelvin (K), and CRI.

(c) *Rounding Requirements.* (1) Round rated wattage to the nearest tenth of a watt.

(2) Round average lamp efficacy to the nearest tenth of a lumen per watt.

(3) Round CCT to the nearest 100 kelvin (K).

(4) Round CRI to the nearest whole number.

[87 FR 53637, Aug. 31, 2022]