



Criteria for Compact Fluorescent Lamps (CFLs)

Below are the product criteria for ENERGY STAR qualified Compact Fluorescent Lamps (CFLs).

A product must meet all of the identified programme requirements if it is to be registered for the New Zealand ENERGY STAR programme and labelled ENERGY STAR.

1 Definitions: Definitions are as contained in AS/NZS 4847.1:2010.

2 Effective Date: The effective date of these criteria is 30 June 2009.

3 Valid Countries: This specification only applies to qualified products sold in New Zealand.

4 Future Revisions: EECA reserves the right to change the criteria should technological and/or market changes affect their usefulness to consumers, industry, or the environment.

5 ENERGY STAR Criteria: The Lamp must *firstly* comply with the performance requirements of AS/NZS 4847.2:2010.

The *additional* ENERGY STAR eligibility criteria are given in the following table:

Criteria Item	New Zealand ENERGY STAR CFL Specification
Minimum efficacy η in lm/W (bare lamps)	$\eta \geq \frac{1.15}{\frac{0.24}{\sqrt{F}} + 0.0103}$ <p>Where F = initial luminous flux in lumens</p>
Minimum efficacy η in lm/W (covered lamps)	$\eta \geq \frac{1.04}{\frac{0.24}{\sqrt{F}} + 0.0103}$ <p>Where F = initial luminous flux in lumens</p>
Minimum efficacy η in lm/W (reflector lamps)	$\eta \geq \frac{0.868}{\frac{0.24}{\sqrt{F}} + 0.0103}$ <p>Where F = initial luminous flux in lumens</p>
Lamp life	≥ 8000 hours
Minimum switching withstand	Lamps shall survive a rapid switching test of 3000
Warranty period	2 years