NEW ZEALAND ENERGY STAR®

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(Int):2008 or its latest replacement from date of publication of that standard.

2 **Test Standard:** Suppliers must comply with and self-test their lamps according to the test procedure defined in AS/NZS 4847.1(Int):2008 or its latest replacement from date of publication of that standard.

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

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

5 **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.

6 **ENERGY STAR Criteria:** The Lamp must ***firstly*** comply with AS/NZS 4847.2(Int):2008 or its latest replacement from date of publication of that standard.

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

Criteria Item	New Zealand ENERGY STAR CFL Specification
Electro - magnetic compatibility	Must comply with AS/NZS 61000.3.2
Minimum efficacy η in lm/W (bare lamps)	$\eta \geq \frac{1.15}{\frac{0.24}{\sqrt{F}} \quad 0.0103}$ Where F = initial luminous flux in lumens
Minimum efficacy η in lm/W (covered lamps)	$\eta \geq \frac{1.04}{\frac{0.24}{\sqrt{F}} \quad 0.0103}$ Where F = initial luminous flux in lumens
Minimum efficacy η in lm/W (reflector lamps)	$\eta \geq \frac{0.868}{\frac{0.24}{\sqrt{F}} \quad 0.0103}$ Where F = initial luminous flux in lumens
Lamp life	≥ 8000 hours
Minimum switching withstand	Lamps shall survive a rapid switching test of 3000
Warranty period	2 years