

Lighting Products

and the *Energy Efficiency Regulations*

WHO IS A “DEALER”?

A “dealer” is a person whose business:

- manufactures energy-using products in Canada; or
- imports energy-using products into Canada; or
- sells or leases energy-using products that are obtained, directly or indirectly, from a person who manufactures energy-using products in Canada or imports them into Canada.

NOTE:

Certain fluorescent lamps are not subject to the Regulations. These include lamps with a colour-rendering index of 82 or greater and lamps for special applications, such as plant lamps, cold-temperature lamps, coloured lamps, impact-resistant lamps and lamps for use in reprographic equipment.

The *Energy Efficiency Act* and the *Energy Efficiency Regulations* establish minimum energy performance levels for specified products and set out the responsibilities of dealers for these products. Fluorescent lamp ballasts were one of the products included under the initial set of *Energy Efficiency Regulations*. These Regulations have since been amended to include energy efficiency standards for fluorescent lamps and incandescent reflector lamps. The regulated lamps are those that are used primarily in general area lighting and that are manufactured in large volumes.

This fact sheet provides general information on the requirements of the Regulations for lighting products. Refer to the Regulations for more detailed information.

What products are regulated?

The Regulations apply to:

- fluorescent lamp ballasts** designed for an input of 120, 277 or 347 volts and intended for operation with F32T8, F34T12, F40T10 or F40T12 rapid-start lamps and F96T12IS, F96T12ES, F96T12HO or F96T12HO/ES lamps;
- fluorescent lamps** that are:
 - 1200 mm (4 ft.) straight-shaped and 560 to 635 mm (2 ft.) U-shaped rapid-start lamps with medium bi-pin bases and a nominal power of 28 watts or more;
 - 2400 mm (8 ft.) high-output rapid-start lamps with recessed double-contact bases, a nominal current of 0.8 amperes and a nominal power of 95 watts or more; and
 - 2400 mm (8 ft.) instant-start lamps with single-pin bases and a nominal power of 52 watts or more (commonly known as slimline lamps);

NOTE:

Certain reflector lamps are not subject to the Regulations. These include coloured lamps, rough service lamps, vibration-resistant lamps, impact-resistant lamps, “hobby” lamps (e.g., for plants or aquariums), infrared heat lamps and lamps for heat-sensitive applications.

- **incandescent reflector lamps** that have R, PAR or similar shapes (ER and BR shapes are excluded), E26 medium screw bases, diameters greater than 70 mm (2-3/4 in.), a nominal voltage or a voltage range at least partially between 100 and 150 volts, and a nominal power of 40 to 205 watts.

What is the energy efficiency standard quoted in the Regulations?

Fluorescent lamp ballasts must meet the minimum efficiency values established in the CSA International (CSA) standard CAN/CSA-C654-M91, entitled “Fluorescent Lamp Ballast Efficacy Measurements,” clause 4: “Ballast Efficacy Factor.” Performance standards for general service fluorescent lamps and incandescent reflector lamps are found in Schedule I of the *Energy Efficiency Regulations* as amended November 7, 1995.

When did the lighting-product Regulations come into force?

The Regulations covering **fluorescent lamp ballasts** came into effect on February 3, 1995. The effective date for the Regulations covering **fluorescent lamps** was February 1, 1996, and for **incandescent reflector lamps**, April 1, 1996. Regulated products manufactured on or after these dates cannot be imported into Canada or shipped between provinces unless they meet the regulatory requirements. After December 31, 1996, all regulated lamps imported into Canada or shipped interprovincially – regardless of their date of manufacture – must comply with the Regulations.

Do the Regulations apply to lamps that are part of a lighting fixture?

The Regulations apply to all regulated lighting products that are being imported or shipped interprovincially, regardless of whether they are shipped as stand-alone products or as a component of another product. **Dealers should ensure that lighting fixture manufacturers are aware that any lamps that accompany their products must meet the regulated energy efficiency standard.**

What are the verification mark requirements?

Under the *Energy Efficiency Regulations*, all regulated energy-using products must carry an energy efficiency verification mark. Before a regulated lighting product leaves the dealer's possession, the dealer must ensure that a verification mark is affixed to the product. For lamps only, the verification mark may be placed on either the product or the product packaging. In the case of ballasts, the verification mark must appear on the product itself.

What information must dealers report to Natural Resources Canada?

Section 5 of the *Energy Efficiency Act* requires that dealers who are importing a regulated product or transporting it from one province to another must submit a report to NRCan describing the product and providing information on its energy efficiency (for more information, refer to Fact Sheet 1 – “Energy Efficiency Reports Under Section 5 of the *Energy Efficiency Act*”). For all regulated lighting products, this energy efficiency report must include the product name, brand name, model number, manufacturer, and the name of the organization or province that carried out the product verification and authorized the verification mark that will be put on the product.

In the case of **fluorescent lamps**, dealers must also provide:

- the lamp abbreviation (according to the ANSI C78.1 Annex A, or ANSI C78.3 Annex A nomenclature systems);
- the lamp type's nominal power;
- its nominal length;
- its diameter;
- its shape (straight or U-shaped);
- its base type (medium bi-pin, recessed double-contact base or single pin);
- its correlated colour temperature;
- its average colour-rendering index; and
- its average lamp efficacy (as stipulated in the Regulations).

Reports for **incandescent reflector lamps** must provide:

- a description of the lamp;
- the lamp class (according to ANSI C78.21 Table I of Part II);
- its nominal power and voltage; and
- the average lamp efficacy (as stipulated in the Regulations).

Reports for **fluorescent lamp ballasts** must indicate:

- the voltage input for the ballast;
- the ballast efficacy factor;
- the type of lamp(s) the ballast is designed to operate; and
- the number of lamps the ballast is designed to operate.

Are there other specific reporting requirements?

Dealers who are **importing** a regulated lighting product are required to include the following information on the customs release document (customs/commercial invoice, bill of lading, etc.):

- a statement that the product being imported is (or contains) a fluorescent lamp ballast, a general service fluorescent lamp or a general service incandescent reflector lamp;
- the model number of the product;
- the brand, if any, of the product;
- the address of the dealer who is importing the product; and
- the purpose for which the dealer is importing the product. This must be one of the following:
 - 1) for sale or lease in Canada without modification;
 - 2) for sale or lease in Canada after being modified to comply with energy efficiency standards; or
 - 3) for use as a component in a product being exported from Canada.

A copy of the completed customs release document is to be provided to Canada Customs. If any of this information is incomplete, the shipment may be detained at Customs until such information is provided. **Note: the imported product information must match the information provided in the energy efficiency report.**

Additional information

Copies of the *Energy Efficiency Act (Statutes of Canada 1992, Chapter 36)* and the *Energy Efficiency Regulations (Canada Gazette, Part II, Volume 128, Number 22, November 2, 1994; Volume 129, Number 24, November 29, 1995; Volume 131, Number 25, December 10, 1997; and Volume 133, Number 1, January 6, 1999)* are available in most public and university libraries and may be purchased in some bookstores.

This document is one of seven fact sheets providing information on the *Energy Efficiency Act* and the *Energy Efficiency Regulations*.

Fact Sheet 1 – “Energy Efficiency Reports Under Section 5 of the *Energy Efficiency Act*”

Fact Sheet 2 – “Importing an Energy-Using Product into Canada”

Fact Sheet 3 – “Verification Marks for Energy Efficiency”

Fact Sheet 4 – “Exemptions from the *Energy Efficiency Regulations*”

Fact Sheet 5 – “EnerGuide Labels for Energy-Using Products”

Fact Sheet 6 – “Electric Motors and the *Energy Efficiency Regulations*”

Fact Sheet 7 – “Lighting Products and the *Energy Efficiency Regulations*”

To obtain more information or to receive other fact sheets, contact:

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Ottawa, ON K1A 0E4
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Helpful web sites

- *Energy Efficiency Regulations*: <http://regulations.nrcan.gc.ca>
- Office of Energy Efficiency: <http://oee.nrcan.gc.ca>

*Cette fiche est également disponible en français sous le titre
«Les appareils d'éclairage et le Règlement sur l'efficacité énergétique».*

