



Department of Energy Energy Conservation Standards

General Service Fluorescent Lamps (GSFL)

On June 29, 2009 the US Department of Energy issued new energy conservation standards for General Service Fluorescent Lamps (GSFL).

When do the standards take effect?

Lamps manufactured on or after July 14, 2012 must meet these new standards.

Which fluorescent lamps will be impacted?

2' U-Bents, 4' and 8' Linear Fluorescent Lamps. The new standards are based on efficacy and are summarized in the table to the right. Lamps must meet minimum Lumen per Watt (LPW) requirements.

Are any products exempt from the regulation?

Yes, the following products are not affected:

- Other lengths not mentioned
- CWX/DX/C50 are exempt due to CRI
- F96T12/CW/HO-O and D/HO-O (Low Temperature)
- All TuffGuard Lamps

How can I be compliant with efficiency standards?

The ruling applies to lamps manufactured after the effective date. We recommend that if it is time for you to replace your systems (lamp and ballast), you should upgrade to the energy saving systems that are not affected by the ruling, versus replacing the system with existing technology that will be outdated in two years.

Is Philips going to take back any non-compliant inventory after July 14, 2012?

No. The standards do not prohibit distributors from selling "non-compliant" product manufactured before July 14, 2012. The rules only apply to the date of manufacture.

Do I need to install a T8 system?

Switching to an energy saving system will have a better payback due to less energy used. You can replace your current T12 lamps with exempt lamps that are not affected by the legislation, however, your choices are limited, and may not be the best for your application.

Lamp	Correlated Color Temperature (CCT)	Energy Conservation Standard (Lumens/Watt)
4ft T8-T12 medium bipin >25W	<4500K	89
	<4500K and <7000K	88
2ft T8-T12 U-shaped >25W	<4500K	84
	<4500K and <7000K	81
8ft T8-T12 Slimline >52W	<4500K	97
	<4500K and <7000K	93
8ft T8-T12 HO	<4500K	92
	<4500K and <7000K	88
4ft T5 miniature bipin standard output >26W	<4500K	86
	<4500K and <7000K	81
4ft T5 miniature bipin HO >49W	<4500K	76
	<4500K and <7000K	72

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sense and simplicity

Philips suggested energy efficient upgrade solutions

Fluorescent Products that do Not Meet 2012 Legislation	Philips Suggested Fluorescent Lamp Replacement	Philips Advance Electronic Ballast Replacement ¹	Philips Suggested BEST Fluorescent Lamp Upgrade	BEST Philips Advance Electronic Ballast Upgrade ²
700 Series T8 32W Lamps	800 Series T8 32W Lamps	N/A	Energy Advantage T8 25W Lamps	Optanium T8
PLUS 700 Series Long Life F32 T8 Lamps	PLUS 800 Series Long Life F32 T8 Lamps	N/A	Energy Advantage T8 XLL 25W Lamps	Optanium T8
700 Series U-Bent T8 32W Lamps	800 Series U-Bent T8 32W Lamps	N/A	Energy Advantage U-Bent 25W 800 Series Lamps	Optanium T8
PLUS 700 Series Slimline T8 Lamps	800 Series PLUS Slimline F96T8 59W Lamps	N/A	Energy Advantage T8 51 Watt Slimline 8' Lamps	Optanium T8
PLUS 700 Series High Output (HO) T8 Lamps	PLUS 800 Series High Output (HO) T8 F96T8 86W Lamps	N/A	N/A	N/A
Rapid Start F34T12 Lamps	800 Series T8 32W Lamps	Centium T8	Energy Advantage T8 XLL 25W Lamps	Optanium T8
Rapid Start 800 Series F34T12 Lamps	800 Series T8 32W Lamps	Centium T8	Energy Advantage T8 XLL 25W Lamps	Optanium T8
Rapid Start Long Life F34T12 Lamps	PLUS 800 Series Long Life F32 T8 Lamps	Centium T8	Energy Advantage T8 XLL 25W Lamps	Optanium T8
Rapid Start 800 Series F40T12 Lamps	800 Series T8 32W Lamps	Centium T8	Energy Advantage T8 XLL 25W Lamps	Optanium T8
U-Bent FB34T12 Lamps	800 Series U-Bent T8 32W Lamps	Centium T8	Energy Advantage U-Bent 25W 800 Series Lamps	Optanium T8
U-Bent FB40T12 Lamps	800 Series U-Bent T8 32W Lamps	Centium T8	Energy Advantage U-Bent 25W 800 Series Lamps	Optanium T8
Slimline 60W F96T12 Lamps	PLUS Slimline 800 Series F96T8 59W Lamps	Optanium T8 Slimline	Energy Advantage T8 51W Slimline Lamps	Optanium T8 Slimline
Slimline 75W F96T12 Lamps	PLUS Slimline 800 Series F96T8 59W Lamps	Optanium T8 Slimline	Energy Advantage T8 51W Slimline Lamps	Optanium T8 Slimline
Slimline Long Life 75W F96T12 Lamps	PLUS Slimline 800 Series F96T8 59W Lamps	Optanium T8 Slimline	Energy Advantage T8 51W Slimline Lamps	Optanium T8 Slimline
Slimline 800 Series 75W F96T12 Lamps	PLUS Slimline 800 Series F96T8 59W Lamps	Optanium T8 Slimline	Energy Advantage T8 51W Slimline Lamps	Optanium T8 Slimline
High Output 800 Series F96T12 Lamps	PLUS 800 Series High Output (HO) F96T8 86W Lamps	Centium T8 HO	N/A	N/A
High Output F96T12 (800MA) Lamps	PLUS 800 Series High Output (HO) F96T8 86W Lamps	Centium T8 HO	N/A	N/A

1. Ballast replacement not necessary when replacing a 700 Series T8 Lamp to an 800 Series T8 Lamp.

2. Recommended ballast change for best energy savings system.

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www.philips.com

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
1-800-555-0050

Philips Lighting Electronics North America
10275 West Higgins Road
Rosemont, IL 60018
Tel: 800-322-2086 Fax: 888-423-1882
Customer Support/Customer Care: 800-372-3331
www.philips.com/advance
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