

Super T8s – Not Your Average T8 Lamp

For the past 20 years, the standard T8 fluorescent lamp with electronic ballast has been the system of choice for new buildings and retrofits. Super T8s are more efficient, last longer and provide better color quality than earlier T8 technologies.

Super T8 lamps are 32-watt T8 lamps, but have a barrier-coat design, high lumen maintenance, long service life and high light output.

Using the Super T8 Effectively

To get the most out of Super T8 technology, the proper ballast and lamp combination must be incorporated to maximize effectiveness.

A ballast is a device that provides voltage to start the lamp, and then it regulates voltage during operation. The ballast specifications dictate how much energy is used, as well as the light output of the system. Although Super T8s can be used in conjunction with normal T8 ballasts, energy savings are optimized when they are used with low-factor ballasts intended for use with Super T8 lamps.

Potential Savings

If a facility operating 200 three-lamp T8 fixtures for 10 hours per day, five days a week were retrofitted with super T8 lamps and ballasts, an annual energy savings of more than 8,000 kWh could be realized. With the amount of energy savings, the incremental cost of roughly \$1 per lamp would be recouped within one year.

Combining super T8 lamps with low ballast factor ballasts (BF of ≤ 0.77) on a one-for-one replacement will reduce energy 15% to 20%.

Contact Julie Ambach, your SPU account representative, for specific rebate information for your business.

What are Super T8s?

- » They produce 3,100 or more initial lumens.
- » They achieve 2,915 or higher mean lumens and 95 percent lumen maintenance at 8,000 hours of use.
- » They have a color rendering index (CRI) of 82 or higher,
- » They are rated for 24,000 hours or more (at 3 hours per start, on a rapid-start or programmed-start ballast).
- » They will start at 0° Fahrenheit (F) on an instant-start ballast rated for 0°F starting.
- » They will operate in rapid-start, programmed rapidstart, instant-start or dimming modes.
- » They enable compliance with low-mercury/TCLP requirements.



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