Reduce maintenance costs.

PHILIPS ENERGY ADVANTAGE T8 28W TWICE THE LIFE LAMPS

Alto II TCLP Compliant*

Philips Energy Advantage T8 28W Twice the Life Lamps featuring ALTO II Technology offer energy savings with extra long life that extends the relamping cycle.

Outstanding energy savings

- Save 4 watts and nearly $27 in energy costs over the life of the lamp when compared to a standard 32W T8 lamp**
- Operates on any instant start and programmed start ballast***

Extra long life

- Significantly reduce maintenance and recycling costs by extending the relamping cycle
- Over two times longer life than an industry standard 4' T8 32W lamp◊
- Limited warranty period based on usage+

Better for the environment

- Only 1.7mg of mercury with ALTO II Technology
- Reduced impact on the environment without sacrificing performance

(*, **, ***, ◊, + See back of page for footnotes)

PHILIPS

PHILIPS ENERGY ADVANTAGE T8 28W TWICE THE LIFE LAMPS

Ordering, Electrical and Technical Data (Subject to change without notice)

						Rated Average Life (Hrs.)[1]					
Product Number	Ordering Code	Watts	Pack Qty.	Color Temp. (K)	Nom. Length (in.)	12-hr on Instant Start	12-hr on Prog. Start	Approx. Initial Lumens[2]	Design Lumens[3]	CRI	Lumen Maint.
43401-9	F32T8/ADV830/2XL/ALTO 28W	28	30	3000	48	68,000	90,000	2650	2545	85	96%
43402-7	F32T8/ADV835/2XL/ALTO 28W	28	30	3500	48	68,000	90,000	2650	2545	84	96%
43403-5	F32T8/ADV841/2XL/ALTO 28W	28	30	4100	48	68,000	90,000	2650	2545	82	96%
43404-3	F32T8/ADV850/2XL/ALTO 28W	28	30	5000	48	68,000	90,000	2600	2495	82	96%

1. Average life under engineering data with lamps turned off and restarted once every 12 operating hours.
2. Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a reference ballast under standard laboratory conditions. For expected lamp lumen output, commercial ballast manufacturers can advise the appropriate ballast factor for each of their ballasts when they are informed of the designated lamp. The ballast factor is a multiplier applied to the designated lamp lumen output.
3. Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions. Design lumens rated at 3 hours per start on instant start ballast.
4. Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

E Lamp meets US Federal Minimum Efficiency Standards.

● This lamp is better for the environment because of its reduced mercury content. All Philips ALTO II lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations.

Footnotes from the front:

* The EPA's TCLP test is used to determine if an item can be managed as hazardous or nonhazardous waste. Philips ALTO and ALTO II lamps are TCLP Compliant and can be managed as non-hazardous waste.

** When comparing Philips Energy Advantage T8 32W with 2650 lumens to a 4' industry standard 32W lamp with 2850 lumens. Based on wattage savings (4W) x rated average life (68,000 hours) x kWh rate ($ .10).

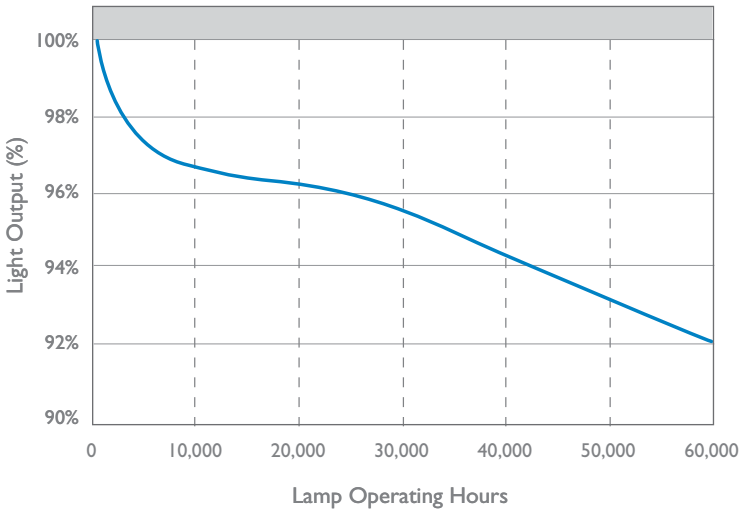
*** Starting voltage should be equal to or greater than 550V. These lamps are not recommended for use where the temperature in fixture is below 70°F. Striations may occur where air movement is present in fixture. For best operation, use ballast with anti-striation circuitry.

◊ When replacing a standard 4' T8 32W lamp with 24,000 hours rated average life and 2850 lumens with a Philips Energy Advantage T8 32W with 60,000 hours rated average life and 2650 lumens. RAL based on 3 hours per start on an instant start ballast.

+ See your sales representative for details

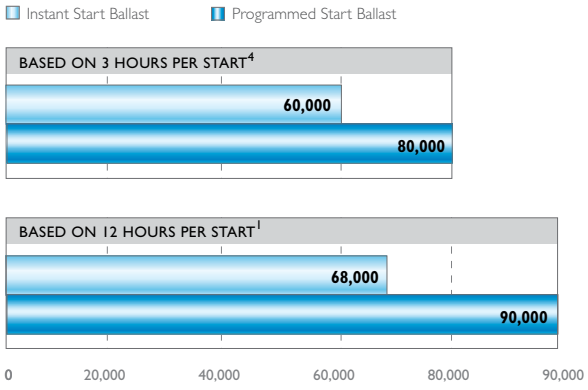
97% Lumen Maintenance

Philips Energy Advantage T8 28W 2XL Lamps



Rated Average Life

Philips Energy Advantage T8 28W 2XL Lamps



Hg

Do not place in trash - dispose according to local, state, or federal laws

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