

Energy savings, extra low mercury

Philips Energy Advantage T8 Lamps offer high energy savings without sacrificing performance.

Outstanding energy savings

- Save 25 watts per lamp instantly when comparing the Energy Advantage T8 25W Lamp to a standard T8 32W lamp
- Save up to \$31 in energy costs over the rated average life of the 25W XEW lamp**
- Operates on any Instant Start and Programmed Start Ballast^{™™}

Extended life

- Reduce maintenance costs by extending the relamping cycle
- Limited warranty period based on usage⁺

Better for the environment

- Only I.7 mg of mercury with ALTO II Technology
- Reduced impact on the environment without sacrificing performance

Philips Energy Advantage T8 Lamps featuring ALTO II Technology

Ideal for applications requiring maximum energy savings

T8 Collection



ALTO II means 50% less mercury than the original ALTO T8 lamps[†]

- * 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
- † This lamp is better for the environment because of its reduced mercury content. All Philips ALTO lamps give you end-of-life options, which can simplify and reduce your lamp disposal costs, depending on your state and local regulations. ALTO II Lamps have only 1.7mg of mercury.



Philips Energy Advantage T8 Lamps featuring ALTO II Technology

Ordering, Electrical and Technical Data

					Color	Nom.	Rated Avera	ge Life (Hrs.)	Approx.			
	Product	Ordering		Pack.	Temp.	Length	12-hr on	12-hr on	Initial	Design		Lumen
	Number	Code	Watts	Qty.	(Kelvin)	(ln.)	Ins. Start	Prog. Start	Lumens ²	Lumens ³	CRI	Maint.
(3 ●	28204-6	F32T8/ADV830/XEW/ALTO	25	30	3000	48	38,000	44,000	2500	2425	85	97%
(3 ●	28209-5	F32T8/ADV835/XEW/ALTO	25	30	3500	48	38,000	44,000	2500	2425	84	97%
(3 •	28078-4	F32T8/ADV841/XEW/ALTO	25	30	4100	48	38,000	44,000	2500	2425	82	97%
(3 ●	28079-2	F32T8/ADV850/XEW/ALTO	25	30	5000	48	38,000	44,000	2400	2350	82	97%
(3 ●	28101-4	F32T8/ADV830/EW/ALTO	28	30	3000	48	38,000	44,000	2725	2645	85	97%
(3 ●	28102-2	F32T8/ADV835/EW/ALTO	28	30	3500	48	38,000	44,000	2725	2645	84	97%
(3 •	28103-0	F32T8/ADV841/EW/ALTO	28	30	4100	48	38,000	44,000	2725	2645	82	97%
(3 ●	28105-5	F32T8/ADV850/EW/ALTO	28	30	5000	48	38,000	44,000	2675	2595	82	97%

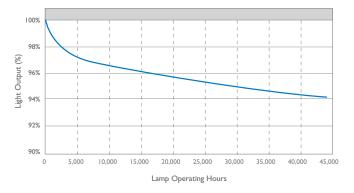
- 1) Average life under engineering data with lamps turned off and restarted once every 12 operating hours.
- 2) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a reference ballast under 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.
- (3) 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 front page:

- ** Based on wattage savings (7W) x rated average life (44,000 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.
- + See your Philips sales representative for details

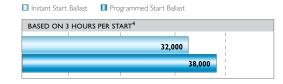
97% Lumen Maintenance

Philips Energy Advantage T8 Lamps



Rated Average Life

Philips Energy Advantage T8 Lamps







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