Philips T8 32W Extra Long Life Lamps featuring ALTO II™ Technology

Ideal for applications where longer relamp cycles would be beneficial

T8 COLLECTION

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

† Original 2', 3' and 4' T8 lamps featuring ALTO® Lamp Technology had 3.5mg of mercury. New 2', 3' and 4' T8 lamps featuring ALTO II™ Technology have 1.7mg of mercury.

Extra long life, extra low mercury

Philips T8 32W Extra Long Life lamps are environmentally responsible and offer extra long life.

Extra long life

- Significantly reduce maintenance and recycling costs by extending the relamping cycle
- Up to 67% longer life than an industry standard T8 lamp*
- Warranty period: 48 months

Outstanding lumen performance

- 95% lumen maintenance and reduced lamp-end blackening

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 footnote)

PHILIPS

sense and simplicity

Philips T8 32W Extra Long Life Lamps featuring ALTO II™ Technology

Ordering, Electrical and Technical Data

	Product Number	Ordering Code	Watts	Pack. Qty.	Color Temp. (Kelvin)	Nom. Length (In.)	Rated Average Life (hrs)[1] 12-hr on Ins. Start	12-hr on Prog. Start	Approx. Initial Lumens[2]	Design Lumens[3]	CRI	Lumen Maint.
E ●	15202-5	F32T8/TL830/XLL/ALTO	32	25	3000	48	40,000	46,000	2950	2800	85	95%
E ●	15203-3	F32T8/TL835/XLL/ALTO	32	25	3500	48	40,000	46,000	2950	2800	85	95%
E ●	15204-1	F32T8/TL841/XLL/ALTO	32	25	4100	48	40,000	46,000	2950	2800	85	95%
E ●	15205-8	F32T8/TL850/XLL/ALTO	32	25	5000	48	40,000	46,000	2850	2700	85	95%

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.

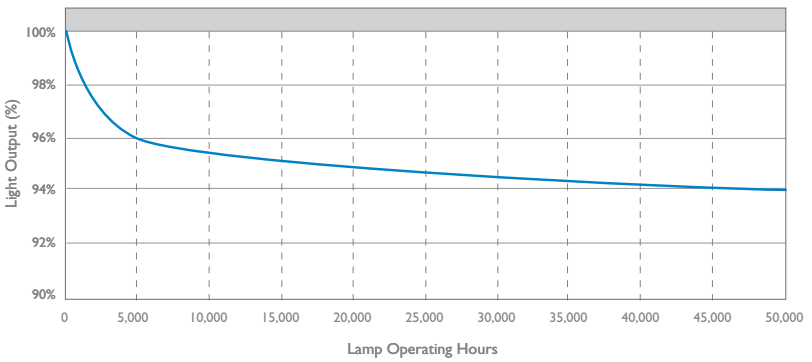
3) Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions.

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.

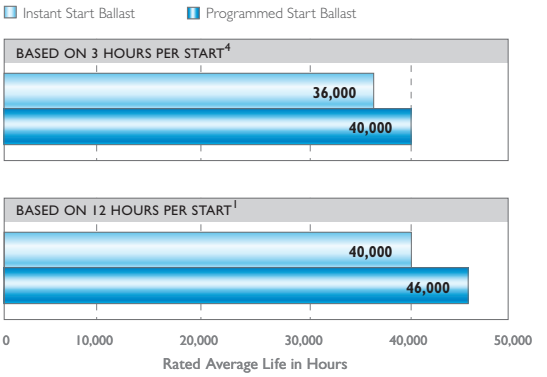
95% Lumen Maintenance

Philips T8 32W XLL Lamps



Rated Average Life

Philips T8 32W XLL Lamps



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.

Footnotes from front page:

*When compared to an industry standard 4' T8 32W lamp with 24,000 hours rated average life (12 hours per start on an instant start ballast), with 2800 lumens and 75 CRI.

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Sappi claims that the pulp used in the manufacture of Magno Dull paper is derived from environmentally certified forests.