Philips PLUS T8
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†

* The EPA's TCLP test is used to determine if an item can be managed as hazardous or non-hazardous 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.

Long life, extra low mercury

Philips PLUS T8 Lamps are energy-efficient lighting solutions and offer long life.

Outstanding lumen performance

- 95% lumen maintenance and reduced lamp-end blackening

Long life

- Reduce maintenance and recycling costs by extending the relamping cycle
- 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 your Philips sales representative for details

Philips PLUS T8 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.
28093-3	F17T8/TL830/PLUS/ALTO	17	30	3000	24	36,000	44,000	1400	1330	85	95%
28094-1	F17T8/TL835/PLUS/ALTO	17	30	3500	24	36,000	44,000	1400	1330	84	95%
28095-8	F17T8/TL841/PLUS/ALTO	17	30	4100	24	36,000	44,000	1400	1330	82	95%
28096-6	F17T8/TL850/PLUS/ALTO	17	30	5000	24	36,000	44,000	1325	1260	82	95%
28193-1	F17T8/TL865/PLUS/ALTO	17	30	6500	24	36,000	44,000	1275	1210	82	95%
28097-4	F25T8/TL830/PLUS/ALTO	25	30	3000	36	36,000	44,000	2225	2115	85	95%
28098-2	F25T8/TL835/PLUS/ALTO	25	30	3500	36	36,000	44,000	2225	2115	84	95%
28099-0	F25T8/TL841/PLUS/ALTO	25	30	4100	36	36,000	44,000	2225	2115	82	95%
28165-9	F32T8/TL830/PLUS/ALTO	32	30	3000	48	36,000	44,000	2950	2800	85	95%
28167-5	F32T8/TL835/PLUS/ALTO	32	30	3500	48	36,000	44,000	2950	2800	84	95%
28179-0	F32T8/TL841/PLUS/ALTO	32	30	4100	48	36,000	44,000	2950	2800	82	95%
28181-6	F32T8/TL850/PLUS/ALTO	32	30	5000	48	36,000	44,000	2850	2710	82	95%
28182-4	F32T8/TL730/PLUS/ALTO	32	30	3000	48	36,000	44,000	2800	2660	78	95%
28183-2	F32T8/TL735/PLUS/ALTO	32	30	3500	48	36,000	44,000	2800	2660	78	95%
28184-0	F32T8/TL741/PLUS/ALTO	32	30	4100	48	36,000	44,000	2800	2660	78	95%
28185-7	F32T8/TL750/PLUS/ALTO	32	30	5000	48	36,000	44,000	2700	2550	78	95%
42306-1	F32T8/TL765/PLUS/ALTO	32	30	6500	48	36,000	44,000	2750	2610	78	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. 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.

Lamp meets US Federal Minimum Efficiency Standards.

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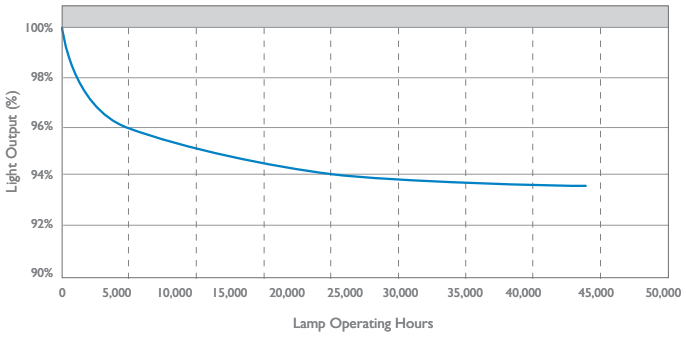
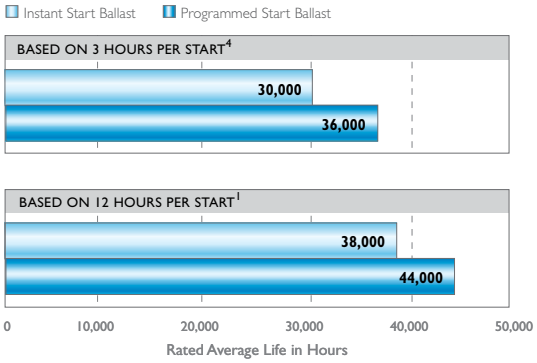
95% Lumen Maintenance

Philips PLUS T8 Lamps



Rated Average Life

Philips PLUS T8 Lamps



Hg

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

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