

Philips ALTO II Technology

Philips T8 Fluorescent Lamps featuring ALTO II Technology

Better for your business, better for the environment



ALTO lamps with green endcaps have become synonymous with environmental responsibility and low mercury. Since the launch of ALTO Lamp Technology in 1995, 2.0 billion Philips fluorescent lamps with ALTO Lamp Technology have been produced with over 20 tons less mercury than previous non-ALTO lamps¹.

Philips launched ALTO II Technology in 2007. ALTO II Technology has 50% less mercury than prior T8 lamps featuring ALTO Technology, making these lamps the most sustainable linear fluorescents available. Best of all, these lamps offer the same performance levels as ALTO lamps (life, energy, and light output).

Philips T8 Lamp Warranty Periods²

Philips Lamp	Instant Start Warranty (3hr/12hr starts)	Programmed Start Warranty (3hr/12hr starts)
T8 700 and 800 Series	30/30 Months	30/36 Months
Advantage T8 32W High Lumen	30/30 Months	36/36 Months
PLUS T8 32W	36/42 Months	42/48 Months
Energy Advantage and Value Energy Advantage 25W	36/42 Months	48/54 Months
T8 32W Extra Long Life (XLL)	42/48 Months	48/60 Months
Energy Advantage T8 25W and 28W (XLL) Extra Long Life	42/48 Months	48/60 Months

Did you know?

- ALTO II T8 lamps have warranty periods ranging from 2½–4 years³
- ALTO II T8 lamps require no burn in before dimming
- ALTO II T8 lamps can contribute to LEED-EB certification. For more information, go to www.usgbc.org

Philips T8 Lamp Family—Life ratings

Philips Lamp	Instant Start ⁴		Programmed Start ⁵	
	3 hours	12 hours	3 hours	12 hours
T8 700 and 800 Series	24,000	30,000	30,000	36,000
Advantage T8 32W High Lumen	24,000	30,000	30,000	36,000
PLUS T8 32W	30,000	36,000	38,000	44,000
Energy Advantage and Value Energy Advantage 25W and 28W	32,000	38,000	38,000	44,000
T8 32W Extra Long Life (XLL)	40,000	46,000	46,000	52,000
Energy Advantage T8 25W and 28W (XLL) Extra Long Life	40,000	46,000	46,000	52,000

1) [1994 industry average (22.8mg)—PLC average (4.0mg)] × 2 billion lamps. Convert to pounds by dividing by 454. Convert to tons by dividing by 2000.

2) Conditions apply—Based on maximum annual burn hours of 5110. Please contact Philips for warranty conditions for use of other equipment, including sensors.

3) Warranty Periods: 700 & 800 Series T8—30 months; Energy Advantage T8—36 months; PLUS T8—36 months; and Advantage T8—36 months; Extra Long Life T8—48 months; Energy Advantage Extra Long Life T8—48 months.

4) Average life under engineering data on instant start ballast with lamps turned off and restarted once every 3 or 12 operating hours as indicated.

5) Average life under engineering data on programmed start ballast with lamps turned off and restarted once every 3 or 12 operating hours as noted.

Fluorescent Lamps

PLUS 800 Series T8 Lamps, PLUS 700 Series T8 Lamps

Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Average Life 3 Hr. Start (202)	Rated Average Life 12 Hr. Start (241)	Approx. Initial Lumens (203,204)	Design Lumens (208, 239)	CRI
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PLUS 800 Series Long Life T8 Fluorescent Lamps

T8 Medium Bipin Featuring ALTO II Technology

17	28093-3	Ⓢ ●	F17T8/TL830/PLUS/ALTO	30	TL 830, 3000K	24	30,000	36,000	1400	1330	85
	28094-1	Ⓢ ●	F17T8/TL835/PLUS/ALTO	30	TL 835, 3500K	24	30,000	36,000	1400	1330	85
	28095-8	Ⓢ ●	F17T8/TL841/PLUS/ALTO	30	TL 841, 4100K	24	30,000	36,000	1400	1330	85
	28096-6	Ⓢ ●	F17T8/TL850/PLUS/ALTO	30	TL 850, 5000K	24	30,000	36,000	1325	1260	82
	28193-1	Ⓢ ●	F17T8/TL865/PLUS/ALTO	30	TL 865, 6500K	24	30,000	36,000	1275	1210	82
25	28097-4	Ⓢ ●	F25T8/TL830/PLUS/ALTO	30	TL 830, 3000K	36	30,000	36,000	2225	2115	85
	28098-2	Ⓢ ●	F25T8/TL835/PLUS/ALTO	30	TL 835, 3500K	36	30,000	36,000	2225	2115	85
	28099-0	Ⓢ ●	F25T8/TL841/PLUS/ALTO	30	TL 841, 4100K	36	30,000	36,000	2225	2115	85
32	28165-9	Ⓢ ●	F32T8/TL830/PLUS/ALTO	30	TL 830, 3000K	48	30,000	36,000	2950	2800	85
	28167-5	Ⓢ ●	F32T8/TL835/PLUS/ALTO	30	TL 835, 3500K	48	30,000	36,000	2950	2800	85
	28179-0	Ⓢ ●	F32T8/TL841/PLUS/ALTO	30	TL 841, 4100K	48	30,000	36,000	2950	2800	85
	20277-0	Ⓢ ●	F32T8/TL841/PLUS/ALTO	10	TL 841, 4100K, 10 PK	48	30,000	36,000	2950	2800	85
	28181-6	Ⓢ ●	F32T8/TL850/PLUS/ALTO	30	TL 850, 5000K	48	30,000	36,000	2850	2710	82

PLUS 700 Series Long Life T8 Fluorescent Lamps

T8 Medium Bipin Featuring ALTO II Technology

32	28182-4	●	F32T8/TL730/PLUS/ALTO	30	TL 730, 3000K	48	30,000	36,000	2800	2660	78
	28183-2	●	F32T8/TL735/PLUS/ALTO	30	TL 735, 3500K	48	30,000	36,000	2800	2660	78
	28184-0	●	F32T8/TL741/PLUS/ALTO	30	TL 741, 4100K	48	30,000	36,000	2800	2660	78
	28185-7	●	F32T8/TL750/PLUS/ALTO	30	TL 750, 5000K	48	30,000	36,000	2700	2550	78
	42306-1	●	F32T8/TL765/PLUS/ALTO	30	TL 765, 6500K	48	30,000	36,000	2750	2610	78

For the most current product information, go to the e-catalog on www.philips.com
Fluorescent symbols and footnotes located on page 40



T8 Medium Bipin

Rated Average Life

- Philips PLUS Instant Start Ballast
- Philips PLUS Programmed Start Ballast

