

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 464. 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

Extra Long Life (XLL) 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)	CRI
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Extra Long Life Energy Advantage 25 Watt T8 Fluorescent Lamp

T8 Medium Bipin Featuring ALTO II Technology

25	28121-2	●	F32T8/ADV830/XLL/ALTO 25 Watt	30	Advantage 830, 3000K	48	40,000	46,000	2400	2330	85
	28122-0	●	F32T8/ADV835/XLL/ALTO 25 Watt	30	Advantage 835, 3500K	48	40,000	46,000	2400	2330	84
	28123-8	●	F32T8/ADV841/XLL/ALTO 25 Watt	30	Advantage 841, 4100K	48	40,000	46,000	2400	2330	82
	28125-3	●	F32T8/ADV850/XLL/ALTO 25 Watt	30	Advantage 850, 5000K	48	40,000	46,000	2350	2280	82

Extra Long Life Energy Advantage 28 Watt T8 Fluorescent Lamp

T8 Medium Bipin Featuring ALTO II Technology

28	28146-9	●	F32T8/ADV830/XLL/ALTO 28 Watt	30	Advantage 830, 3000K	48	40,000	46,000	2675	2595	85
	28148-5	●	F32T8/ADV835/XLL/ALTO 28 Watt	30	Advantage 835, 3500K	48	40,000	46,000	2675	2595	84
	28127-9	●	F32T8/ADV841/XLL/ALTO 28 Watt	30	Advantage 841, 4100K	48	40,000	46,000	2675	2595	82
	28128-7	●	F32T8/ADV850/XLL/ALTO 28 Watt	30	Advantage 850, 5000K	48	40,000	46,000	2625	2545	82

Extra Long Life 32 Watt T8 Fluorescent Lamps

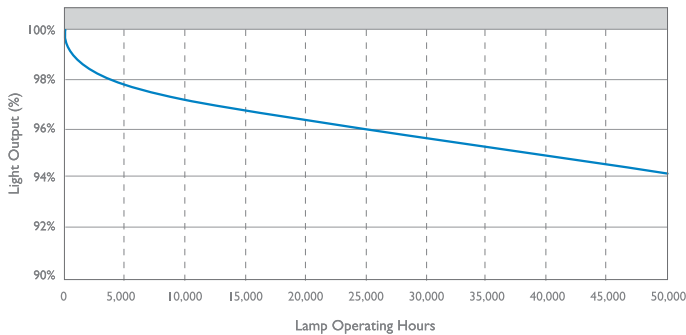
T8 Medium Bipin Featuring ALTO II Technology

32	28115-4	⊙ ●	F32T8/TL835/XLL/ALTO	30	TL 835, 3500K	48	40,000	46,000	2950	2800	84
	28116-2	⊙ ●	F32T8/TL841/XLL/ALTO	30	TL 841, 4100K	48	40,000	46,000	2950	2800	82
	28120-4	⊙ ●	F32T8/TL850/XLL/ALTO	30	TL 850, 5000K	48	40,000	46,000	2850	2700	82

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

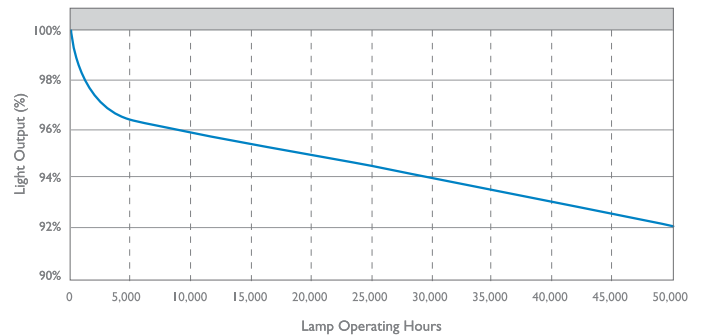
97% Lumen Maintenance

Philips Energy Advantage T8 25W and 28W XEW and XLL Lamps

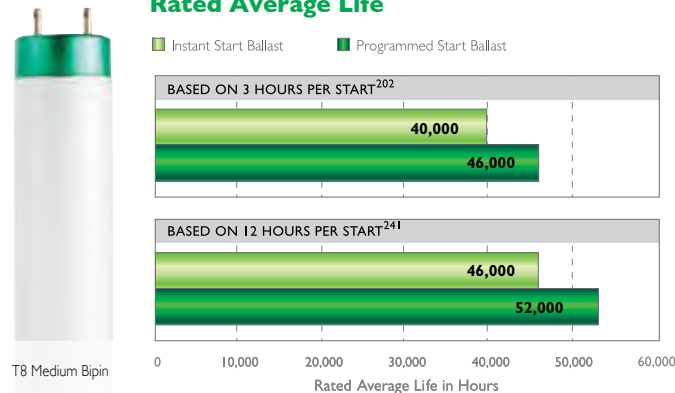


95% Lumen Maintenance

Philips T8 32W XLL Lamps



Rated Average Life



T8 Medium Bipin