

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

Rapid Start T8 Lamps, Preheat T8 Lamps

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

Rapid Start T8 Fluorescent Lamps

T8 Medium Bipin; High CRI

32	20905-6		F32T8/TL950	25	TL 950, 5000K	48	20,000	20,000	2000	1860	98
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TL-D Rapid Start T8 Fluorescent Lamps—for Operation on European Ballast

T8 Medium Bipin; High CRI

36	29189-8		TLD36W/840NG	25	TL840, 4000K	48	20,000	—	3350	3100	82
58	29184-9		TLD58W/840NG	25	TL840, 4000K	60	20,000	—	5200	4300	82
70	29186-4		TLD70W/840NG	25	TL840, 4000K	72	20,000	—	6200	5100	82

Preheat T8 Fluorescent Lamps

T8 Medium Bipin Linear Fluorescent Lamps; Requires Use of Starters (202)

15	40720-5		F15T8D	25	Daylight, 6500K	18	7500	—	750	660	73
	40719-7		F15T8/CW	25	Cool White, 4100K	18	7500	—	870	765	59
	36436-4		F15T8/CW BULK	96	Cool White, 4100K	18	7500	—	850	750	59
	39226-6		F15T8/PLANT	6	Plant Lite, Sleeved	18	7500	—	410	N/A	N/A
30	28147-7	●	F30T8/CW/ALTO	25	Cool White, 4100K	36	7500	—	2200	2000	59

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