



Energy Advantage T8 Fluorescent Lamps

High Performance, Long Life, Environmentally-Responsible Lamps

Now Up To
25,000
Hours
Rated Life!



▶ **F32T8 30 Watt Econ-o-watt Fluorescent Lamp**

▶ **High Energy Efficiency**

–Replace 32 watt T8 lamps with 30 watt T8 lamps and save close to 10% in energy costs

▶ **Instant Start Operation**

Operates on any standard Instant Start system

▶ **Environmentally Responsible**

–Low mercury: TCLP* compliant
–Energy efficient
–Long life

▶ **Sustainable Lighting Solution**

Less mercury and fewer lamps in landfills, combined with energy efficiency reduces the impact on the environment

▶ **Look for the Green End-Caps®**

Our Green End-Caps mean you are using environmentally-responsible lamps

▶ **Outstanding Lumen Maintenance**

HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers:
–95% lumen maintenance
–Reduced lamp-end blackening

▶ **Enhanced CRI**

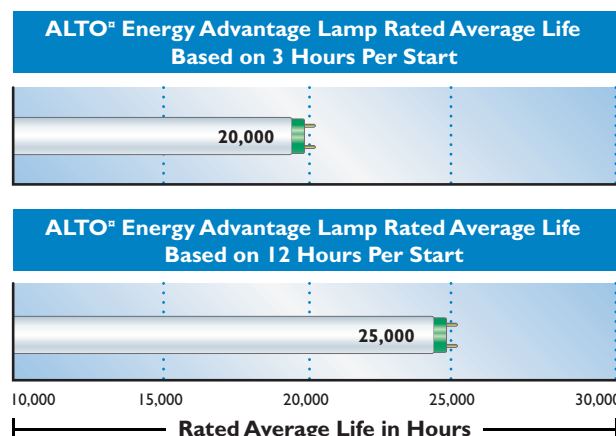
86 CRI for TL80 lamps

* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

Replace standard 32 watt T8 lamps with Philips ALTO® Energy Advantage 30 watt T8 and save 2 watts per lamp instantly



Green End-Caps are a registered trademark of Philips Electronics North America Corporation.



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ALTO® Energy Advantage T8 Fluorescent Lamps

Electrical, Technical and Ordering Data (Subject to change without notice)

Product Number 046677-	Ordering Code	Package Quantity	Color Temp. (Kelvin)	Nominal Length (In.)	Rated Average Life (Hrs.) ⁽¹⁾		Approx. Initial Lumens	Design Lumens ⁽²⁾	CRI	Lumen Maintenance
					3-Hr. Start	12-Hr. Start				
ⓔ 38780-3	F32T8/ADV830/EW/ALTO	25	3000K	48	20,000	25,000	2900	2750	86	95%
ⓔ 38781-1	F32T8/ADV835/EW/ALTO	25	3500K	48	20,000	25,000	2900	2750	86	95%
ⓔ 38783-7	F32T8/ADV841/EW/ALTO	25	4100K	48	20,000	25,000	2900	2750	86	95%

⁽¹⁾ Rated average life under specified test conditions with Instant Start ballasts 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.

⁽²⁾ Approximate lumens at 40% of rated average life at 3 hours per start.

ⓔ Lamp meets US Federal Minimum Efficiency Standards.

Cost of Ownership Savings

ALTO Energy Advantage T8 Fluorescent Lamps vs. Standard T8 Lamps.

General Overview

ALTO Energy Advantage 30 watt T8 fluorescent lamps provide energy savings of up to 10% versus standard 32 watt T8, so the benefits and financial impact can be significant.

Benefits

By using ALTO Energy Advantage T8 lamps the energy savings of 2 watts per lamp can be achieved instantly by simply changing the lamp.

Financial Impact

Energy Savings per Lamp	2 Watts
Operating Hours per Year	4,000 hours
Cost per KWh	\$.10

Cost of Ownership Savings = \$.80 per lamp per year.

ALTO Energy Advantage T8 Fluorescent Lamps — Lamp Specification Lamps shall be Philips HI-VISION® T8 Lamps having:

- ▶ Color rendering index of 86
- ▶ T8 diameter bulb
- ▶ Medium bipin bases
- ▶ Color temperature of _____K (3000, 3500, 4100)
- ▶ Initial lumens of 2900
- ▶ Design lumens of 2750
- ▶ Nominal wattage of 30
- ▶ Cathode guards
- ▶ Featuring HI-VISION Phosphor

Save 2 Watts Instantly

2 watts per lamp saved KWH Rate	Energy Savings Calculator			
	Annual Operating Hours*	Savings Over Lamp Life		
	4380	8760	20,000 hrs.	25,000 hrs
\$0.06	\$0.53	\$1.05	\$2.40	\$3.00
\$0.08	\$0.70	\$1.40	\$3.20	\$4.00
\$0.10	\$0.88	\$1.75	\$4.00	\$5.00
\$0.12	\$1.05	\$2.10	\$4.80	\$6.00
\$0.20	\$1.75	\$3.50	\$8.00	\$10.00

*4,380 hours are based on operating the lamps 12 hours per day/7 days per week
 8,760 hours are based on operating the lamps 24 hours per day/7 days per week



† This fluorescent lamp is better for the environment because of its reduced mercury content. All fluorescent lamps contain mercury for effective operation, however, Philips lamps with ALTO® Lamp Technology average less mercury than the industry average for fluorescent lamps.

