

Alto® Universal T8 Fluorescent Lamps

Advantage Performance Series

Maximum light output and 60% longer life on Instant Start operation than standard 4' T8 lamps



Ideal for...

- Any T8 application requiring maximum maintained light output



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

- **Highest Lumen T8 Lamp**
3100 lumens

- **Outstanding Performance Over Life**
HI-VISION® Phosphor delivers 95% lumen maintenance, enhanced 86 CRI and 100 LPW

- **24,000 Hour Life**
 - Full rated life on Instant Start, Rapid Start or Programmed Start Ballasts
 - 60% longer life on Instant Start operation than standard 4' T8 lamps

- **Ultimate System Solution**
 - Higher lumens enable multiple system options to maximize energy saving and reduce lighting costs
 - Fully dimmable without burn-in
 - Ideal for light harvesting

- **Alto® Lamp Technology**
 - Uses 66% less mercury than the 1999 industry average
 - Green End Caps for easy identification

- **Cathode Guard**
Ensures superior lumen maintenance throughout lamp life and reduces lamp-end blackening

- **3000K, 3500K, 4100K and 5000K, all with a HIGH CRI of 86**

Philips
Lighting
Company



PHILIPS

Let's make things better.

Alt® Advantage T8 Fluorescent Lamps featuring HI-VISION® Phosphor

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

Product Number	Ordering Code	Nom. Watts	Bulb	Base	Std. Pkg. Qty.	Color Rendering Index (CRI)	Nom. Length (In.)	Rated Avg. Life (Hrs.) ⁽¹⁾	Initial Lumens	Design Lumens ⁽²⁾	Lumen Maint. (%)	Color Temp. (Kelvin)
27064-5	F32T8/ADV830/ALTO	32	T8	Med. BiPin	25	86	48	24,000	3100	2950	95	3000
27065-2	F32T8/ADV835/ALTO	32	T8	Med. BiPin	25	86	48	24,000	3100	2950	95	3500
27066-0	F32T8/ADV841/ALTO	32	T8	Med. BiPin	25	86	48	24,000	3100	2950	95	4100
27068-6	F32T8/ADV850/ALTO	32	T8	Med. BiPin	25	86	48	24,000	3100	2950	95	5000

⁽¹⁾ Average life under specified test conditions with lamps turned off and restarted once every 3 operating hours.

⁽²⁾ Approximate lumens at 40% of rated average life (9600 hours).

ⓔ Lamp meets US Federal Minimum Efficiency Standards

Advantage T8 Systems vs. Standard T8 Systems

ENERGY SAVINGS—2 Lamp vs. 2 Lamp System

Electronic Ballast	Ballast Factor	No. of Lamps	Lamp Watts	Standard T8 Lumens	Advantage T8 Lumens	System Watts	Savings
Standard T8	0.87	2	32	2850		58	
Reduced Light Output T8	0.75	2	32		3100	51	\$2.80/yr

Combine Advantage T8 lamps with reduced light output electronic ballasts, with these results:

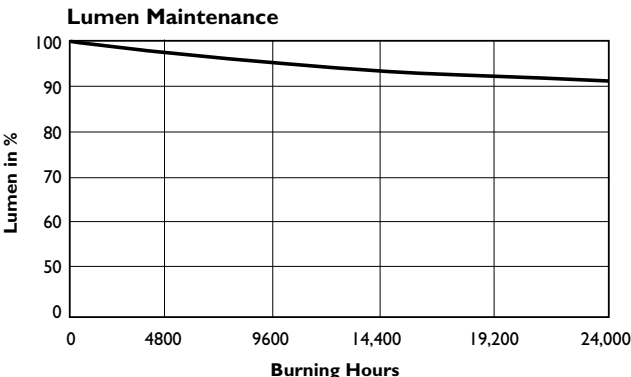
- Produces comparable light output
- Save \$2.80 per fixture per year
- Save 7 system watts vs. standard T8 system
- Energy savings based on 4000 hrs/yr @ \$.10 Kw/hr

ENERGY SAVINGS—2 Lamp vs. 3 Lamp System

Electronic Ballast	Ballast Factor	No. of Lamps	Lamp Watts	Standard T8 Lumens	Advantage T8 Lumens	System Watts	Savings
Standard T8	0.87	3	32	2850		88	
Increased Light Output T8	1.20	2	32		3100	78	\$4.00/yr

Combine Advantage T8 lamps with increased light output ballasts. A 2 lamp Advantage T8 system vs. a 3 lamp standard T8 system will:

- Produces comparable light output
- Save 10 system watts
- Save \$4.00 per fixture per year
- Energy savings based on 4000 hrs/yr @ \$.10 kw/hr
- Reduce lighting installation costs (lamps, ballasts, fixtures and labor)



For maximum energy efficiency with fluorescent lamps use Philips Electronic Ballasts.

Advantage T8 System — Lamp Specification

“Lamps shall be Philips Advantage T8 lamps having:

- Color rendering index of 86
- T8 diameter bulb
- Medium Bipin bases
- Color temperature of _____ K (3000, 3500, 4100 or 5000)
- Initial lumens of 3100
- Design lumens of 2950
- Nominal wattage of 32
- Powered by electronic ballasts designed for 265mA T8 lamps
- A cathode guard.”