

# PHILIPS

## Lamps

### Advantage T8 lamps

Featuring ALTO II technology



# High performance, extra low mercury

**Philips Advantage T8 Lamps** are an energy-efficient solution and offer high lumen output.

Ideal for applications requiring maximum light output.

#### Ultimate system solution

- High lumens enable multiple system options to maximize energy savings and reduce lighting costs
- Fully dimmable without burn-in

#### Better for the environment

- Only 1.7mg of mercury with ALTO II Technology
- Reduced impact on the environment without sacrificing performance
- Limited warranty period based on usage<sup>1</sup>



**ALTO II means 50% less mercury than the original ALTO T8 lamps**

This lamp is better for the environment because of its reduced mercury content. All Philips ALTO lamps give you end-of-life options, which can simplify and reduce your lamp disposal costs, depending on your state and local regulations. ALTO II Lamps have only 1.7mg of mercury.

\* Fluorescent lamps that are TCLP compliant reduce the amount of pollutants released into the environment.

1. See back page for footnotes.



## Philips Advantage T8 Lamps featuring ALTO II technology

Ideal for applications requiring maximum light output.

## Ordering information & electrical and technical data

All Philips ALTO II lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations. This lamp is better for the environment because of its reduced mercury content.

Product Number	Ordering Code	Watts	Pack Qty.	CCT (kelvin)	Nominal Length (inches)	Rated Average Life (hrs) <sup>1</sup>		Approx Initial Lumens <sup>2</sup>	Design Lumens <sup>3</sup>	CRI	Lumen Maint.
						12-hr on Instant Start	12-hr on Program Start				
28130-3	F17T8/ADV830/ALTO	17	30	3000	24	30,000	36,000	1500	1450	85	95%
28131-1	F17T8/ADV835/ALTO	17	30	3500	24	30,000	36,000	1500	1450	84	95%
28132-9	F17T8/ADV841/ALTO	17	30	4100	24	30,000	36,000	1500	1450	82	95%
28140-2	F25T8/ADV835/ALTO	25	30	3500	36	30,000	36,000	2380	2300	84	95%
28142-8	F25T8/ADV841/ALTO	25	30	4100	36	30,000	36,000	2380	2300	82	95%
<b>e</b> 28080-0	F32T8/ADV830/ALTO	32	30	3000	48	30,000	36,000	3100	3000	85	95%
<b>e</b> 28081-8	F32T8/ADV835/ALTO	32	30	3500	48	30,000	36,000	3100	3000	84	95%
<b>e</b> 28085-9	F32T8/ADV841/ALTO	32	30	4100	48	30,000	36,000	3100	3000	82	95%
<b>e</b> 28089-1	F32T8/ADV850/ALTO	32	30	5000	48	30,000	36,000	3100	2910	82	95%

1. Average life under engineering data with lamps turned off and restarted once every 12 operating hours.
  2. Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a reference ballast under standard laboratory conditions. For expected lamp lumen output, commercial ballast manufacturers can advise the appropriate ballast factor for each of their ballasts when they are informed of the designated lamp. The ballast factor is a multiplier applied to the designated lamp lumen output.
  3. Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions. Design lumens rated at 3 hours per start on instant start ballast.
  4. Average life under specified test conditions 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.
- e** Lamp meets US Federal Minimum Efficiency Standards.

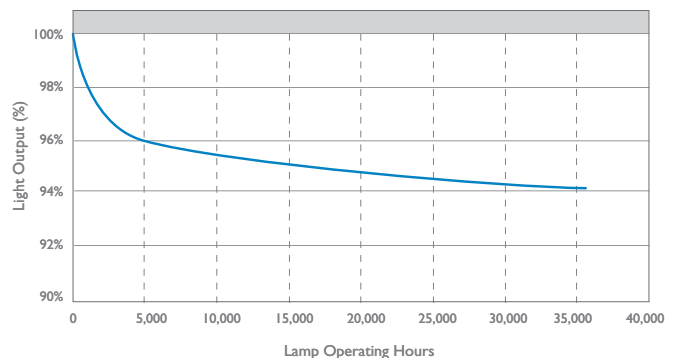
### Philips Advantage T8 32W vs. Standard T8 32W Systems

Energy Savings: 2 Lamp vs. 2 Lamp System

Electronic Ballast	Ballast Factor	No. of Lamps	Lumens	System Watts	System Lumens	Savings
Standard 32W T8	0.87	2	2700	58	4698	
Reduced Light Output 32W T8	0.75	2	3100	51	4725	<b>\$2.80/yr</b>

### 95% Lumen Maintenance

Philips Advantage T8 Lamps



© 2014 Koninklijke Philips N.V. All rights reserved.  
Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.



Philips Lighting, North America Corporation  
200 Franklin Square Drive, Somerset, NJ 08873  
Tel. 855-486-2216

Imported by: Philips Lighting,  
A division of Philips Electronics Ltd.  
281 Hillmount Rd, Markham, ON, Canada L6C 2S3  
Tel. 800-668-9008