

# Fluorescent Lamps

## Advantage 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, 239)	CRI
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### Advantage T8 High Lumen Fluorescent Lamps

#### T8 Medium Bipin Featuring ALTO II Technology

17	28130-3	Ⓢ ●	F17T8/ADV830/ALTO	30	Advantage 830, 3000K	24	24,000	30,000	1500	1450	85
	28131-1	Ⓢ ●	F17T8/ADV835/ALTO	30	Advantage 835, 3500K	24	24,000	30,000	1500	1450	84
	28132-9	Ⓢ ●	F17T8/ADV841/ALTO	30	Advantage 841, 4100K	24	24,000	30,000	1500	1450	82
25	28140-2	Ⓢ ●	F25T8/ADV835/ALTO	30	Advantage 835, 3500K	36	24,000	30,000	2380	2300	84
	28142-8	Ⓢ ●	F25T8/ADV841/ALTO	30	Advantage 841, 4100K	36	24,000	30,000	2380	2300	82
32	28080-0	Ⓢ Ⓢ ●	F32T8/ADV830/ALTO	30	Advantage 830, 3000K	48	24,000	30,000	3100	3000	85
	28081-8	Ⓢ Ⓢ ●	F32T8/ADV835/ALTO	30	Advantage 835, 3500K	48	24,000	30,000	3100	3000	84
	28085-9	Ⓢ Ⓢ ●	F32T8/ADV841/ALTO	30	Advantage 841, 4100K	48	24,000	30,000	3100	3000	82
	28089-1	Ⓢ Ⓢ ●	F32T8/ADV850/ALTO	30	Advantage 850, 5000K	48	24,000	30,000	3000	2910	82

For the most current product information, go to the e-catalog on [www.philips.com](http://www.philips.com)  
Fluorescent symbols and footnotes located on page 40

### Energy Savings: Two Lamp vs. Two 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:

- Saves 7 system watts vs. standard T8 system
- Saves \$2.80 per fixture per year
- Energy savings based on 4000 hrs/yr @ \$.10 kw/hr

### Energy Savings: Two Lamp vs. Three 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 two lamp advantage T8 system vs. a three lamp standard T8 system will:

- Save 10 system watts
- Save \$4.00 per fixture per year
- Save energy based on 4000 hrs/yr @ \$.10 kw/hr
- Reduce lighting installation costs (lamps, ballasts, fixtures and labor)
- Operate on ballast with ballast factors up to 1.32 with warranty intact



T8 Medium Bipin

### Rated Average Life

- Philips Advantage Instant Start Ballast
- Philips Advantage Programmed Start Ballast

