



# A simple change for significant impact

Philips Energy Advantage T8 25W Lamps

**PHILIPS**

sense and simplicity

# Maximum energy savings

The T8 25W is the lowest wattage 4' T8 on the market. The lamp offers a great opportunity to reduce your energy consumption with minimal reduction in light levels. For those who have a T8 system already installed, the switch is simple! All you have to do is change the lamps. Although more labor is required for anyone with a T12 system, the change is worth the significant reduction in energy consumption you'll experience.

## Why a Philips T8 25W ?

The Philips T8 25W lamps feature ALTO II™ Technology, which means they have 50% less mercury than the original ALTO and less mercury than competitor lamps. This makes these lamps the most sustainable 25W linear fluorescents available. Best of all, Philips T8 25W lamps offer the same superior performance levels so you don't have to sacrifice lamp life, light quality, or energy to help your company be more sustainable.

Philips T8 25W lamps deliver:

- Reduced maintenance costs due to the long lamp life (30,000 hours rated average life at 12 hours per start)
- Good light output (2500 approximate initial lumens and 97% lumen maintenance)
- Peace of mind (36-month lamp warranty period)
- Performance and sustainability (lower mercury without any sacrifice to light output, life or energy)

## Why combine a Philips T8 25W with a Philips Advance Optanium® Ballast?

Philips Energy Advantage T8 25W lamps, together with Philips Advance Optanium® family of high efficiency electronic ballasts currently represent one of the industry's lowest energy-consuming 4-foot T8 systems on the market as well as being recommended for applications involving frequent on/off switching or occupancy sensors. Since Optanium ballasts can be used in such a variety of applications throughout a facility, they can also potentially help businesses achieve their environmental and sustainability goals, including LEED certification, meeting ASHRAE standards, and complying with federal, state, or local environmental regulations.

This Philips T8 25W with a Philips Advance Optanium Ballast delivers:

- Simplified ordering and inventory (IntelliVolt® technology allows the ballast to operate at any input voltage from 120–277V, 50/60 Hz)
- Striation reduction technology provides more consistent light output with energy-saving lamps
- Dependability and performance, even in cold temperatures (Programmed start = 0°F/-18°C; Instant start = -20°F/-29°C) which opens up new applications such as parking garages, warehouses, and cold storage.
- No issues with interference with infrared systems, anti-theft devices, or other electronic equipment (Operation between 42Hz and 52Hz)
- More flexibility to meet end-user application needs (Arc-reduction technology—UL Type CC<sup>o</sup>)





Philips Energy Advantage T8 25W Lamps vs. Standard T8 32W Lamps

**Why choose the Philips Energy Advantage T8 25W over the T8 32W lamps?**

- It's a simple way to immediately save money. All you need to do is replace your existing T8 32W. No ballast change required
- It reduces your energy consumption which saves you money
- It provides outstanding light quality—97% lumen maintenance and 85 CRI
- It's better for the environment with extremely low mercury

**Reduce Your Energy Costs: Save 7 Watts Instantly!**  
Standard T8 32W Lamp vs. Philips Energy Advantage T8 25W Lamp

kWh Rate	Annual operating hours		Savings Over Lamp Life (30,000 hrs Rated Average Life)	
	(12 hours/day)	(24 hours/day)	1 lamp	4 lamps
0.06	4380 hours <sup>1</sup>	8760 hours <sup>2</sup>	\$12.60	\$50.40
0.08	\$2.45	\$4.91	\$16.80	\$67.20
0.10	\$3.07	\$6.13	\$21.00	\$84.00
0.12	\$3.68	\$7.36	\$25.20	\$100.80
0.15	\$4.60	\$9.20	\$31.50	\$126.00
0.20	\$6.13	\$12.26	\$42.00	\$168.00



Philips Energy Advantage T8 25W Extra Long Life Lamps vs. Standard T8 32W Lamps

**Why choose the Philips Energy Advantage T8 25W Extra Long Life over the T8 32W lamps?**

- It's a great way to reduce your maintenance costs by extending the relamping cycle
- It's a simple way to immediately save money. All you need to do is replace your existing T8 32W. No ballast change required
- It reduces your energy consumption which saves you money
- It provides outstanding light quality—97% lumen maintenance and 85 CRI
- It's better for the environment with extremely low mercury

**Reduce Your Energy Costs: Save 7 Watts Instantly!**  
Standard T8 32W Lamp vs. Philips Energy Advantage T8 25W Extra Long Life Lamp

kWh Rate	Annual operating hours		Savings Over Lamp Life (30,000 hrs Rated Average Life)	
	(12 hours/day)	(24 hours/day)	1 lamp	4 lamps
0.06	4380 hours <sup>1</sup>	8760 hours <sup>2</sup>	\$16.80	\$67.20
0.08	\$2.45	\$4.91	\$22.40	\$89.60
0.10	\$3.07	\$6.13	\$28.00	\$112.00
0.12	\$3.68	\$7.36	\$33.60	\$134.40
0.15	\$4.60	\$9.20	\$42.00	\$168.00
0.20	\$6.13	\$12.26	\$56.00	\$224.00



Philips Energy Advantage T8 25W Lamps and Philips Advance Optanium® Ballasts



**Save even more when you pair Philips Energy Advantage T8 25W Lamps with Philips Advance Optanium® ballasts.**

Developed jointly to optimize performance, combining a Philips Lighting’s Energy Advantage T8 25W lamp featuring ALTO II™ Technology with a Philips Advance Optanium® high efficiency electronic ballast creates one of the lowest energy-consuming 4-foot T8 systems on the market.

**Why choose a system which includes Philips Energy Advantage T8 25W Extra Long Life lamps and a Philips Advance Optanium® high efficiency electronic ballast?**

- It’s optimized by Philips Lighting and Philips Lighting Electronics N.A. for energy efficiency on both Instant and Programmed Start lamp ignition

- It can help reduce energy consumption by over 40% relative to older systems involving T12 lamps and magnetic ballasts
- It can help reduce energy consumption by 20–30% relative to systems utilizing conventional T8 lamps and electronic ballasts
- It is suitable for both new construction and retrofit applications
- It provides maximum-efficiency and high-performance
- It is a sustainable lighting solution for today’s general office, healthcare, education facilities, retail, and warehouse settings
- It provides a range of powerful features

**Reduce Your Energy Costs: Save 27 Watts Instantly!**

Standard T8 32W System vs. Optanium® Instant Start Electronic Ballast with a Philips T8 25W

Lamp and Ballast	Standard T8 32W with a Standard Instant Start System	Energy Advantage T8 25W with a High-efficiency Optanium Instant Start Electronic Ballast
CRI	78	85
Ballast Factor <sup>3</sup>	0.88	0.87
Approx. Initial Lumens <sup>4,5</sup>	2800	2500
Lumen Maintenance	95%	97%
Number of Lamps	3	4
Maintained Lumens <sup>6</sup>	7022	8439
System Wattage	88	85

**Make the Switch and Here is What You Can Save...**

Watts Saved .....27 Watts Saved  
 Annual Savings in Energy Costs .....\$2.96 Per Lamp<sup>7</sup>  
 Energy Saved (in Dollars) .....\$20.27 Per Lamp<sup>8</sup> Over Rated Average Life<sup>9</sup>

# Extend your relamp cycle



## Philips Energy Advantage T8 25W Lamps

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

Product Number	Ordering Code	Watts	Pack. Qty.	Color Temp. (Kelvin)	Nom. Length (In.)	Rated Average Life (hrs) <sup>9</sup>		Approx. Initial Lumens <sup>10</sup>	Design Lumens <sup>11</sup>	CRI	Lumen Maint.
						12-hr on Ins. Start	12-hr on Prog. Start				
I3781-0	F32T8/ADV830/XEW/ALTO	25	25	3000	48	30,000	36,000	2500	2425	85	97%
I3782-8	F32T8/ADV835/XEW/ALTO	25	25	3500	48	30,000	36,000	2500	2425	85	97%
I3783-6	F32T8/ADV841/XEW/ALTO	25	25	4100	48	30,000	36,000	2500	2425	85	97%
I3784-4	F32T8/ADV850/XEW/ALTO	25	25	5000	48	30,000	36,000	2400	2330	85	97%

## Philips Energy Advantage T8 25W Extra Long Life Lamps

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

Product Number	Ordering Code	Watts	Pack. Qty.	Color Temp. (Kelvin)	Nom. Length (In.)	Rated Average Life (hrs) <sup>9</sup>		Approx. Initial Lumens <sup>10</sup>	Design Lumens <sup>11</sup>	CRI	Lumen Maint.
						12-hr on Ins. Start	12-hr on Prog. Start				
I5206-6	F32T8/ADV830/XLL/ALTO	25	25	3000	48	40,000	46,000	2400	2330	85	97%
I5207-4	F32T8/ADV835/XLL/ALTO	25	25	3500	48	40,000	46,000	2400	2330	85	97%
I5208-2	F32T8/ADV841/XLL/ALTO	25	25	4100	48	40,000	46,000	2400	2330	85	97%
I5209-0	F32T8/ADV850/XLL/ALTO	25	25	5000	48	40,000	46,000	2350	2280	85	97%

## Philips Advance Optanium® High Efficiency IntelliVolt® Instant Start Ballasts

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

No. of Lamps	Min. Starting Temp. (°F/°C)	Input Volts	Ballast Family	Catalog Number	Line Current (Amps)	Input Power ANSI (Watt)	Ballast Factor	Max THD% (Measured)	Min. Power Factor (Measured)
1	60°/15°	120	Optanium	IOP-1P32-SC	0.20	23	0.87	10	0.99
1	60°/15°	120	Optanium	IOPA-1P32-SC	0.20	23	0.87	10	0.99
1	60°/15°	277	Optanium	IOP-1P32-SC	0.09	23	0.87	10	0.98
1	60°/15°	277	Optanium	IOPA-1P32-SC	0.09	23	0.87	10	0.98
1	60°/15°	120	Optanium	IOP-2P32-SC	0.23	27	1.05	10	0.99
1	60°/15°	120	Optanium	IOPA-2P32-SC	0.23	27	1.05	10	0.99
1	60°/15°	277	Optanium	IOP-2P32-SC	0.10	27	1.05	10	0.97
1	60°/15°	277	Optanium	IOPA-2P32-SC	0.10	27	1.05	10	0.97
2	60°/15°	120	Optanium	IOP-2P32-SC	0.37	44	0.87	10	0.99
2	60°/15°	120	Optanium	IOPA-2P32-SC	0.37	44	0.87	10	0.99
2	60°/15°	277	Optanium	IOP-2P32-SC	0.16	43	0.87	10	0.98
2	60°/15°	277	Optanium	IOPA-2P32-SC	0.16	43	0.87	10	0.98
2	60°/15°	120	Optanium	IOP-3P32-SC	0.42	49	1.00	10	0.99
2	60°/15°	120	Optanium	IOPA-3P32-SC	0.42	49	1.00	10	0.99
2	60°/15°	277	Optanium	IOP-3P32-SC	0.18	49	1.00	10	0.97
2	60°/15°	277	Optanium	IOPA-3P32-SC	0.18	49	1.00	10	0.97
3	60°/15°	120	Optanium	IOP-3P32-SC	0.55	65	0.87	10	0.99
3	60°/15°	120	Optanium	IOPA-3P32-SC	0.55	65	0.87	10	0.99
3	60°/15°	277	Optanium	IOP-3P32-SC	0.24	64	0.87	10	0.98
3	60°/15°	277	Optanium	IOPA-3P32-SC	0.24	64	0.87	10	0.98
3	60°/15°	120	Optanium	IOP-4P32-SC	0.59	70	0.97	10	0.99
3	60°/15°	120	Optanium	IOPA-4P32-SC	0.59	70	0.97	10	0.99
3	60°/15°	277	Optanium	IOP-4P32-SC	0.26	69	0.97	10	0.97
3	60°/15°	277	Optanium	IOPA-4P32-SC	0.26	69	0.97	10	0.97
4	60°/15°	120	Optanium	IOP-4P32-SC	0.73	87	0.87	10	0.99
4	60°/15°	120	Optanium	IOPA-4P32-SC	0.73	87	0.87	10	0.99
4	60°/15°	277	Optanium	IOP-4P32-SC	0.31	85	0.87	10	0.98
4	60°/15°	277	Optanium	IOPA-4P32-SC	0.31	85	0.87	10	0.98

**FOOTNOTES:**

\* Not available in IOPA models.

- 1) 4380 based on operating the lamps 12 hours per day/7 days a week.
- 2) 8760 based on operating the lamps 24 hours per day/7 days a week.
- 3) Ballast Factor (BF): Measure of light output from lamp operated by commercial ballast, as compared to a laboratory standard reference ballast.
- 4) 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.
- 5) 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.
- 6) Maintained lumens = Approx. initial lumens x ballast factor x lumen maintenance x number of lamps.
- 7) Based on watts saved per lamp x annual operating hours (4380) x kWh rate (\$0.10) / 1000 / 3. Kilowatt hour rate may vary depending on location and energy company.
- 8) Based on watts saved per lamp x rated average life (36,000 hrs) x kWh rate (\$0.10) / 1000 / 3. Kilowatt hour rate may vary depending on location and energy company.
- 9) Average life under engineering data with lamps turned off and restarted once every 12 operating hours.
- 10) 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.
- 11) 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.



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