Upgrade to a high performing T12 lamp

Philips T12 Fluorescent Lamps featuring ALTO® Lamp Technology
Complete line of 4' T12s which are better for the environment

PHILIPS
sense and simplicity

See what's possible

Upgrade your T12s to one of Philips enhanced performance T12s to save money and help the environment.

The benefits of ALTO® Lamp Technology

ALTO® Lamp Technology combines low mercury with long life and energy efficiency—which together help achieve sustainability.

Low Mercury: Philips T12 fluorescent lamps featuring ALTO Lamp Technology average 70% less mercury than the 2001 industry average for fluorescent lamps up to sixty inches which are not TCLP* compliant. Source reduction during the manufacturing phase is essential to mercury management throughout the product lifecycle.

ALTO lamps use 100% recycled mercury during the ALTO manufacturing process. Philips also reuses as much glass and packaging materials as possible. Philips has target reductions in packaging and production processes as outlined in the Annual Philips Sustainability Report.

Good: Philips T12 Long Life

These cool white lamps provide 20% more life on average than standard T12 lamps[1], reducing maintenance and recycling costs. With a 24,000 hour rated average life[2], these lamps are ideal for places where maintenance costs are expensive and changing a lamp can cause disruptions.

Better: Philips 800 Series T12

These lamps provide high color rendering (82 CRI). Their approximate initial lumens range from 2800 (34W) to 3200 (40W), making them ideal for applications requiring maximum continuous light output such as in offices, industry, healthcare, schools and retail.

Best: Philips Advantage T12

These high performance lamps are ideal for applications where high lumens, long life and high CRI are required. The Advantage T12 lamps provide high initial lumens: 3100 (34W) to 3600 (40W); a 24,000 hours rated average life[2]; and 85 CRI.

1) When compared to a Philips standard 4'T12 34W lamp with 20,000 hours rated average life (3 hours per start) with 2650 lumens and 62 CRI.
2) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours.

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

with better lighting

Long life, low mercury

Philips T12 Long Life lamps
are environmentally responsible
and offer long life

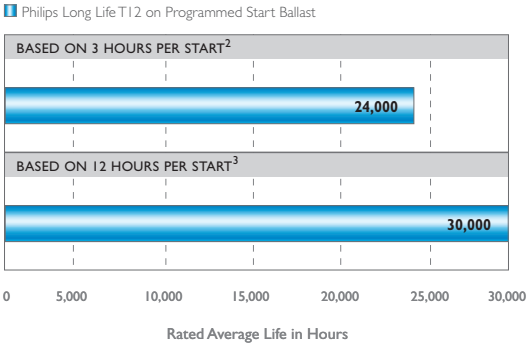
Ideal for applications where longer relamp cycles would be beneficial

Long life
- Reduce maintenance and recycling costs
- Up to 20% more life on average than a Philips standard 4'T12 34W lamp[1]

Better for the environment
- Only 4.4 mg of mercury with ALTO® Lamp Technology

Warranty period: 36 months

Rated Average Life
Philips Long Life T12 Lamps



1) When compared to a Philips standard 4'T12 34W lamp with 20,000 hours rated average life (3 hours per start) with 2650 lumens and 62 CRI.
2) 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.
3) Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

See page 7 for ordering information.

High color rendering, low mercury

Philips 800 Series T12 lamps are environmentally responsible and provide excellent color rendering

Ideal for applications where light quality is important

High Color Rendering for more vibrant colors

High lumen output

- Approximate initial lumens include 2800 for the 34W; 3200 for the 40W
- Lumen maintenance: 95% (40W), 93% (34W)

Better for the environment

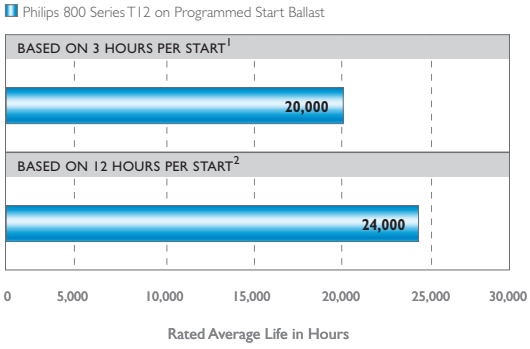
- Only 4.4 mg of mercury with ALTO® Lamp Technology

Available in 34W and 40W

Warranty period: 30 months

Rated Average Life

Philips 800 Series T12 Lamps



1) 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.

2) Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

See page 7 for ordering information.

Long life, high performance, and low mercury

Philips Advantage T12 lamps are environmentally responsible and high performing

Ideal for applications requiring maximum quality light output

High performance

- High initial lumens (12% more, on average, compared to the Philips 800 Series T12)—3100 for the 34W; 3600 for the 40W
- 95% lumen maintenance

Long life

- Reduce maintenance and recycling costs
- Up to 20% more life on average than a Philips standard 34W and 40W T12 lamp respectively[1]

High color rendering for more vibrant colors

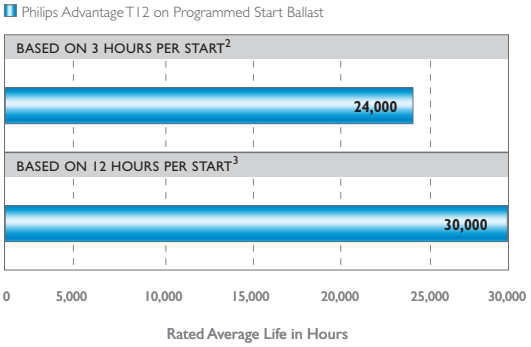
Better for the environment

- Only 4.4 mg of mercury with ALTO® Lamp Technology

Warranty period: 36 months

Rated Average Life

Philips Advantage T12 Lamps



1) When compared to a Philips standard 4'T12 34W lamp with 20,000 hours rated average life (3 hours per start) with 2650 lumens and 62 CRI or 4'T12 40W lamp with 20,000 hours rated average life (3 hours per start) with 3200 lumens and 82 CRI.

2) 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.

3) Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

See page 7 for ordering information.

	Product Number	Ordering Code	Nom Watts	Package Qty.	Color Temp (Kelvin)	Nom. Length (In.)	Rated Avg. Life (Hrs.)[1]	Approx. Initial Lumens[2]	Design Lumens[3]	CRI	Lumen Maint.
GOOD	Philips Long Life T12 Fluorescent Lamps										
	14251-3	F34/CW/RS/EW/LL/ALTO	34	30	4100	48"	24,000	2650	2300	62	88%
	14252-1	F34/WW/RS/EW/LL/ALTO	34	30	3000	48"	24,000	2700	2350	53	88%
BETTER	Philips 800 Series T12 Fluorescent Lamps										
	14253-9	F34T12/830/EW/ALTO	34	30	3000	48"	20,000	2800	2660	82	93%
	14254-7	F34T12/835/EW/ALTO	34	30	3500	48"	20,000	2800	2660	82	93%
	14255-4	F34T12/841/EW/ALTO	34	30	4100	48"	20,000	2800	2660	82	93%
	14256-2	F34T12/850/EW/ALTO	34	30	5000	48"	20,000	2650	2520	82	93%
	14261-2	F40T12/830/ALTO	40	30	3000	48"	20,000	3200	3040	82	95%
	14262-0	F40T12/835/ALTO	40	30	3500	48"	20,000	3200	3040	82	95%
	14263-8	F40T12/841/ALTO	40	30	4100	48"	20,000	3200	3040	82	95%
	14264-6	F40T12/850/ALTO	40	30	5000	48"	20,000	3050	2900	82	95%
BEST	Philips Advantage T12 Fluorescent Lamps										
	14257-0	F34T12/ADV830/EW/ALTO	34	30	3000	48"	24,000	3100	2880	85	93%
	14258-8	F34T12/ADV835/EW/ALTO	34	30	3500	48"	24,000	3100	2880	85	93%
	14259-6	F34T12/ADV841/EW/ALTO	34	30	4100	48"	24,000	3100	2880	85	93%
	14260-4	F34T12/ADV850/EW/ALTO	34	30	5000	48"	24,000	2950	2740	82	93%
	26604-9	F40T12/ADV830/ALTO	40	30	3000	48"	24,000	3600	3420	85	95%
	26631-2	F40T12/ADV835/ALTO	40	30	3500	48"	24,000	3600	3420	85	95%
	26640-3	F40T12/ADV841/ALTO	40	30	4100	48"	24,000	3600	3420	85	95%
	26643-7	F40T12/ADV850/ALTO	40	30	5000	48"	24,000	3450	3280	82	95%

1) 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.

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.

† 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.

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Sappi claims that the pulp used in the manufacture of Magno Dull paper is derived from environmentally certified forests.