

# Philips PLUS T8 Gold Lamps

featuring ALTO® Lamp Technology

Environmentally Responsible Lamps:  
Long Life and Low Mercury



**Ideal for illuminating semiconductor clean rooms, and genetic testing and research laboratories**



## Blocks UV Emissions

- Filters out all wavelengths below 520nm
- Provides life-long protection against damaging UV rays, unlike phosphor coatings which can degrade over the life of the lamp

## Long Life

- Long life lamps extend the relamping cycle, thereby reducing maintenance and disposal costs
- 36,000 hours rated average life<sup>2</sup> at 12 hours per start on instant start ballasts
- 42,000 hours rated average life<sup>2</sup> at 12 hours per start on programmed start ballasts

## Safe Operation

- Permanently-affixed sleeve
- Shatter-resistant coating
- Will not crack, peel or flake with age

## Sustainable Lighting Solution

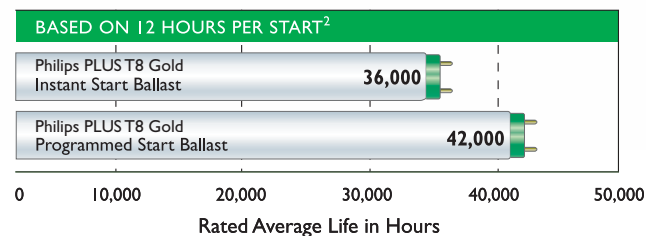
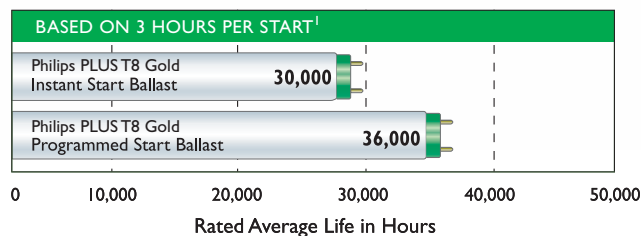
- Reduces the impact on the environment
- Low mercury
  - Energy efficient
  - Long life

## Philips T8 Warranty Period: 36 Months

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.

### Philips PLUS T8 Gold Lamps Rated Average Life



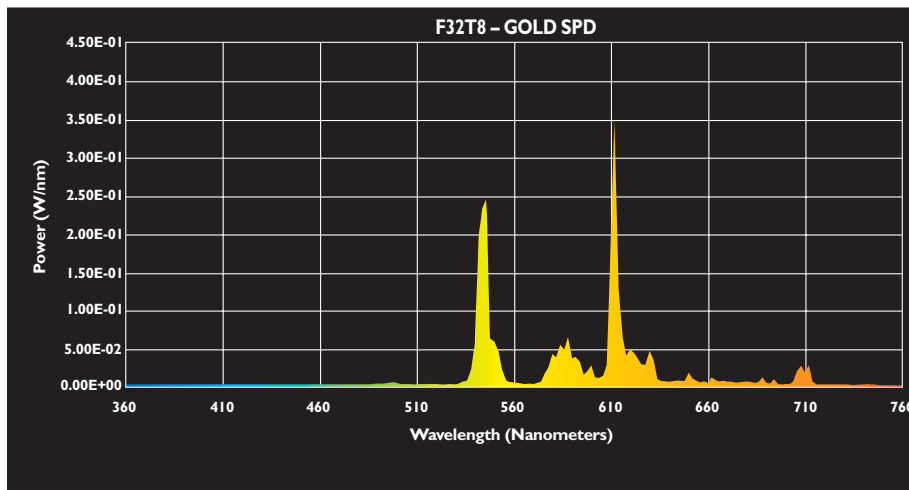
# PHILIPS

## Philips PLUS T8 Gold Lamps featuring ALTO® Lamp Technology

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

Product Number	Ordering Code	Package Qty.	Color Temp. (Kelvin)	Nominal Length (in)	Rated Average Life (hrs) <sup>1</sup>		Approx. Initial Lumens <sup>2</sup>	Design Lumens <sup>3</sup>	Lumen Maintenance
					12-hr on Instant Start	12-hr on Programmed Start			
I4746-2	F32T8/Gold/PLUS/ALTO	25	3500K	48	36,000	42,000	2400	2280	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. Lamp meets US Federal Minimum Efficiency Standards.



† 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.

### Improve your bottom line

## Philips PLUS T8 Gold 32W lamps versus Standard T8 Gold 32W lamps

### General Overview

Philips PLUS T8 Gold 32W Lamps provide up to 50% longer life than standard T8 Gold products in the industry.

### Benefits

By using Philips PLUS T8 Gold fluorescent lamps, the lamp replacement and labor costs may be extended by an extra 2 ½ years on a facility that operates an average of 4,000 hours per year. For example, a standard T8 Gold product, with a rated average life expectancy of 20,000 hours should last five years (20,000 hours rated life / 4,000 hours per year = 5 years). Conversely, Philips Long Life PLUS T8 Gold fluorescent lamps should operate for seven and a half years due to their rated average life expectancy of 30,000 hours (30,000 hours rated average life / 4,000 hours per year = 7½ years). 7½ years – 5 years = 2½ years.

