



Philips Energy Advantage  
T5 HO Extreme  
Temperature 49W  
Lamps featuring ALTO  
Lamp Technology

*Ideal for medium-bay  
and high-bay applications  
without climate control*

Energy Advantage



† 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.

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

## Improve your light quality while reducing your energy costs

Philips Energy Advantage T5 HO Extreme Temperature 49W lamps are environmentally responsible with a 5W energy savings<sup>§</sup> and are ideal for extreme temperature spaces.

### Provides extraordinary lumen output even in spaces without climate control

- Lumen output is >90% from 65°F to 170°F (20°C to 75°C) due to amalgam technology

### Reduced maintenance and disposal costs

- Long life (40,000 hrs RAL<sup>\*\*</sup>) for an extended relamping cycle
- Warranty period: 42 months

### Outstanding energy savings

- Save 5 watts when switching from a standard T5 HO 54W lamp, with no sacrifice to performance
- Save \$20.00 in energy costs over the rated average life of the lamp<sup>§</sup>
- Operates on any Programmed Start ballast

### Sustainable lighting solution

- Only 1.4mg of mercury, the lowest in the industry

(†, \*\*, §. See back of page for footnotes)

# PHILIPS

# Philips Energy Advantage T5 HO 49W Lamps featuring ALTO® Lamp Technology

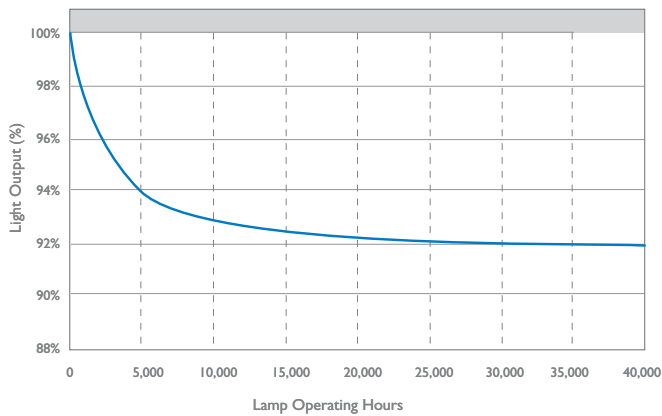
## Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Ordering Code	Nom. Watts	Pkg. Qty.	Color Temp. (Kelvin)	Nom. Length (In.)	Rated Avg. Life (Hrs.) <sup>1</sup>		Approx. Initial Lumens <sup>4,5</sup>	Design Lumens <sup>6</sup>	CRI	Lumen Maint.
						3-hr Start <sup>2</sup>	12-hr Start <sup>3</sup>				
40729-6	F54T5/835/HO/A/EA/ALTO 49W	49	40	3500	46	30,000	40,000	5000	4750	85	92%
40730-4	F54T5/841/HO/A/EA/ALTO 49W	49	40	4100	46	30,000	40,000	5000	4750	85	92%
40752-8	F54T5/850/HO/A/EA/ALTO 49W	49	40	5000	46	30,000	40,000	4850	4625	82	92%

- 1) Rated average life is the length of operation (in hours) at which point an average of 50% of a large sample of lamps will still be operational and 50% will not.
  - 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.
  - 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) 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.

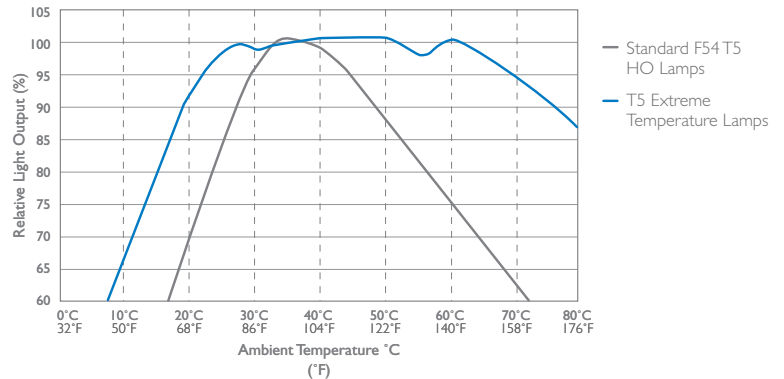
## 92% Lumen Maintenance

### Energy Advantage T5 HO Extreme Temperature 49W



## Performance (Relative Light Output vs. Temperature)

### Energy Advantage T5 HO Extreme Temperature 49W



#### Footnotes from front:

- ◇ Compared to a T5 HO 54W lamp
- \*\* Average life under engineering data with lamps turned off and restarted once every 12 operating hours.
- § 5W saved × 40,000 hrs (rated average life) / 1000 × .10



Do not place in trash - dispose according to local, state, or federal laws



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