Philips Energy Advantage T8 28W Twice the Life Lamps featuring ALTO II Technology offer energy savings with extra long life that extends the relamping cycle.

Outstanding energy savings

• Save 4 watts and nearly $27 in energy costs over the life of the lamp when compared to a standard 32W T8 lamp

• Operates on any instant start and programmed start ballast

Extra long life

• Significantly reduce maintenance and recycling costs by extending the relamping cycle

• Over two times longer life than an industry standard 4’ T8 32W lamp

• Limited warranty period based on usage

Better for the environment

• Only 1.7mg of mercury with ALTO II Technology

• Reduced impact on the environment without sacrificing performance

(*, **, ***, ◊, + See back of page for footnotes)
### Ordering, Electrical and Technical Data

**Philips Energy Advantage T8 28W 2XL Lamps**

#### Rated Average Life

<table>
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<td>30</td>
<td>3000</td>
<td>48</td>
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<td>2545</td>
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<td>68,000</td>
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<td>2545</td>
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<td>90,000</td>
<td>2600</td>
<td>2495</td>
<td>82</td>
<td>96%</td>
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</tbody>
</table>

**Footnotes from the front:**

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. Design lumens rated at 3 hours per start on instant start ballast.
4. Average life under specified test conditions with lamps turned off and restarted more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.
5. Lamp meets US Federal Minimum Efficiency Standards.
6. This lamp is better for the environment because of its reduced mercury content. All Philips ALTO II lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations.

**Rated Average Life**

**Philips Energy Advantage T8 28W 2XL Lamps**

**97% Lumen Maintenance**

**Philips Energy Advantage T8 28W 2XL Lamps**

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