Energy savings, extra low mercury

Philips Energy Advantage T8 Lamps offer high energy savings without sacrificing performance.

**Outstanding energy savings**

- Save 7 watts per lamp instantly when comparing the Energy Advantage T8 25W Lamp to a standard T8 32W lamp
- Save up to $31 in energy costs over the rated average life of the 25W XEW lamp**
- Operates on any Instant Start and Programmed Start Ballast***

**Extended life**

- Reduce maintenance costs by extending the relamping cycle
- 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)
Philips Energy Advantage T8 Lamps featuring ALTO II Technology

Ordering, Electrical and Technical Data

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>28204-6</td>
<td>F32TB/ADV830/XE-W/ALTO</td>
<td>25</td>
<td>30</td>
<td>3000</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2500</td>
<td>2425</td>
<td>85</td>
</tr>
<tr>
<td>28209-5</td>
<td>F32TB/ADV835/XE-W/ALTO</td>
<td>25</td>
<td>30</td>
<td>3500</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2500</td>
<td>2425</td>
<td>84</td>
</tr>
<tr>
<td>28078-4</td>
<td>F32TB/ADV841/XE-W/ALTO</td>
<td>25</td>
<td>30</td>
<td>4100</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2500</td>
<td>2425</td>
<td>82</td>
</tr>
<tr>
<td>28079-2</td>
<td>F32TB/ADV850/XE-W/ALTO</td>
<td>25</td>
<td>30</td>
<td>5000</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2400</td>
<td>2350</td>
<td>82</td>
</tr>
<tr>
<td>28101-4</td>
<td>F32TB/ADV830/EW/ALTO</td>
<td>28</td>
<td>30</td>
<td>3000</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2725</td>
<td>2645</td>
<td>85</td>
</tr>
<tr>
<td>28102-2</td>
<td>F32TB/ADV835/EW/ALTO</td>
<td>28</td>
<td>30</td>
<td>3500</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2725</td>
<td>2645</td>
<td>84</td>
</tr>
<tr>
<td>28103-0</td>
<td>F32TB/ADV841/EW/ALTO</td>
<td>28</td>
<td>30</td>
<td>4100</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2725</td>
<td>2645</td>
<td>82</td>
</tr>
<tr>
<td>28105-5</td>
<td>F32TB/ADV850/EW/ALTO</td>
<td>28</td>
<td>30</td>
<td>5000</td>
<td>48</td>
<td>38,000</td>
<td>44,000</td>
<td>2675</td>
<td>2595</td>
<td>82</td>
</tr>
</tbody>
</table>

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 operation 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 no 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.

97% Lumen Maintenance
Philips Energy Advantage T8 Lamps

Rated Average Life
Philips Energy Advantage T8 Lamps

© 2015 Koninklijke Philips N.V. All rights reserved.
Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

© 2015 Koninklijke Philips N.V. All rights reserved.
Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.