Philips Energy Advantage T8 51W Slimline 8-foot Lamps featuring ALTO® LampTechnology

Ideal for industrial applications requiring maximum energy savings and long life

Energy Advantage

Energy saving T8 Slimline 8-foot lamps

Philips Energy Advantage T8 51W Slimline 8-foot Lamps help lower energy costs while extending the relamping cycle.

51W is the lowest wattage T8 Slimline 8-foot in the industry
• Save 8 watts per lamp instantly and up to 14% in system energy costs when compared to a standard 59W Slimline 8-foot
• Save over $24.00 in energy costs over the rated average life$ of the lamp when compared to a standard 59W Slimline 8-foot

Outstanding light levels and lumen maintenance
• 104 lumens per watt
• 93% lumen maintenance

Sustainable lighting solution
• Reduces the impact on the environment—low mercury and energy efficient
• With just 37 Picograms per lumen hour†, these lamps allow for more design freedom and help exceed your LEED requirements*

Warranty period: 24 months

† 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.

§ See back page for footnotes
Philips Energy Advantage T8 51W Slimline 8-foot Lamps featuring ALTO® Lamp Technology

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

<table>
<thead>
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<tbody>
<tr>
<td>23235-5</td>
<td>F96T8/ADV835/XEW/ALTO 51W</td>
<td>51</td>
<td>24</td>
<td>3500K</td>
<td>96</td>
<td>24,000</td>
<td>5300</td>
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<td>93%</td>
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<td>5200</td>
<td>4840</td>
<td>86</td>
<td>93%</td>
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</tbody>
</table>

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) 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.

Rated Average Life
Philips Energy Advantage T8 51W Slimline 8-foot Lamps

<table>
<thead>
<tr>
<th>Instant Start Ballast</th>
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<tbody>
<tr>
<td>BASED ON 3 HOURS PER START</td>
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<tr>
<td>24,000</td>
</tr>
<tr>
<td>BASED ON 12 HOURS PER START</td>
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<tr>
<td>30,000</td>
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Dollars Saved Over the Life of the Lamp
Philips Energy Advantage T8 51W Slimline 8-foot Lamp vs. the Industry Standard T8 59W Slimline 8-foot Lamp

<table>
<thead>
<tr>
<th>kWh rate</th>
<th>Watts Saved</th>
<th>Savings over 24,000 hour Rated Average Life</th>
<th>Savings over 30,000 hour Rated Average Life</th>
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<tbody>
<tr>
<td>$0.06</td>
<td>8W</td>
<td>$11.52</td>
<td>$14.40</td>
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<tr>
<td>$0.08</td>
<td>8W</td>
<td>$15.36</td>
<td>$19.20</td>
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<tr>
<td>$0.10</td>
<td>8W</td>
<td>$19.20</td>
<td>$24.00</td>
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<tr>
<td>$0.12</td>
<td>8W</td>
<td>$23.04</td>
<td>$28.80</td>
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<tr>
<td>$0.20</td>
<td>8W</td>
<td>$38.40</td>
<td>$48.00</td>
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† Compared to the Industry Standard T8 59W Slimline 8-foot.
** Based on wattage savings (8W) x rated average life / 1000 x kWh rate.

Footnotes from front:
* Based on 30,000 hour rated average life at $0.10 per kWh at 12 hours per start on an instant start ballast (8W x 30000 hours / 1000 x $0.10) = $24.00. kWh rate may vary.
† Picogram calculation: mercury content (mg) x 1,000,000,000 / (RAL x design lumens) = pico-gram per lumen hour.
/ For more information on LEED, please visit www.usgbc.org

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