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◊ 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**) 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§
  • 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 Energy Advantage T5 HO 49W Lamps featuring ALTO® Lamp Technology

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

<table>
<thead>
<tr>
<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>40729-6</td>
<td>F54T5/835/HO/A/EA/ALTO 49W</td>
<td>49</td>
<td>40</td>
<td>3500</td>
<td>46</td>
<td>30,000</td>
<td>40,000</td>
<td>5000</td>
<td>4750</td>
</tr>
<tr>
<td>40730-4</td>
<td>F54T5/841/HO/A/EA/ALTO 49W</td>
<td>49</td>
<td>40</td>
<td>4100</td>
<td>46</td>
<td>30,000</td>
<td>40,000</td>
<td>5000</td>
<td>4750</td>
</tr>
<tr>
<td>40752-8</td>
<td>F54T5/850/HO/A/EA/ALTO 49W</td>
<td>49</td>
<td>40</td>
<td>5000</td>
<td>46</td>
<td>30,000</td>
<td>40,000</td>
<td>4850</td>
<td>4625</td>
</tr>
</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) 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.

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 x 40,000 hrs (rated average life) / 1000 x .10