The evolution of general lighting

Fluorescent T5 Systems
For years, T8 lighting has been the standard choice for general-purpose lighting applications. From commercial offices and healthcare facilities to schools and government buildings, they are everywhere. However, rising energy costs, new legislation and the need for improved sustainability have prompted building managers and lighting specifiers to look toward T5 systems for lighting solutions that can deliver improved efficiency without compromising light levels or quality.

Philips is leading the charge with one of the lowest-wattage 25W T5 systems available today.¹

See footnotes on page 6.
Raising the bar for sustainability

Engineered to optimize energy efficiency and energy savings, Philips 25W T5 systems deliver exceptional lighting performance in any general-purpose application, providing the same light output as 28W systems. (See chart below.)

By pairing Philips Advance Optanium ballasts with Philips Energy Advantage 25W lamps, these systems offer significant advantages over competitive systems. (See chart below.)

• Lower input power (See chart below.)
• Highest lumens per watt — average 7 more than the competition
• Longest life — average 4,000 hours more than the competition

In addition to helping reduce your energy consumption, the Philips 25W system can support overall sustainability goals and may contribute toward LEED certification.

• Lowest mercury content — one of the least amounts in the industry
• RoHS-compliant
• Aids in meeting ASHRAE 90.1-2010
• Optanium step-dim ballasts meet California’s Title 24 requirements by reducing power to 50%

The Philips 25W T5 systems also feature long-life lamps (rated average life of 40,000 hours), which can help minimize the frequency of maintenance and reduce your lamp recycling costs.

And these systems may also qualify for utility rebates. Check with your local utility provider for more information.

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### Lighting System Performance

<table>
<thead>
<tr>
<th>Lighting System</th>
<th>Mean Lumens</th>
<th>Rated Average Life</th>
<th>Mean System Lumens</th>
<th>System Watts</th>
<th>System Lumens per Watt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philips 25W</td>
<td>2.750</td>
<td>40,000</td>
<td>5.225</td>
<td>54</td>
<td>97</td>
</tr>
<tr>
<td>Philips 28W</td>
<td>2.750</td>
<td>35,000</td>
<td>5.225</td>
<td>58</td>
<td>90</td>
</tr>
<tr>
<td>Competitor 26W²</td>
<td>2.660</td>
<td>30,000</td>
<td>5.054</td>
<td>56</td>
<td>90</td>
</tr>
<tr>
<td>Competitor 28W²</td>
<td>2.900</td>
<td>36,000</td>
<td>5.510</td>
<td>58</td>
<td>95</td>
</tr>
</tbody>
</table>

See footnotes on page 6.
The confidence of choosing a proven provider

Choosing Philips 25W T5 systems is simply a smart decision. With more than 100 years of industry experience and industry-specific expertise, Philips is leading the way toward a brighter, more sustainable future.

As part of a full, comprehensive lighting portfolio, Philips 25W T5 systems represent the state of the art for general lighting applications from a proven lighting partner. In addition to helping save energy and improve sustainability, having a single point of contact for any support issues related to lamps or ballasts can make life simpler for building managers and lighting specifiers.

These systems also feature up to a 42-month lamp/60-month ballast warranty for greater peace of mind.

Contact your Philips sales representative today to learn more about how Philips 25W T5 systems can make a difference in your world.

See footnotes on page 6.
Footnotes

1. Based on Philips and competitive data as of July 2012.
2. Based on commercially available published data. As of September 2012.
   http://www.gelighting.com/LightingWeb/na/resources/document-library/
3. 1.4 mg of mercury.
4. Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances
   [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)]
   in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.
5. Mean 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.
6. 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.
7. Two-lamp system with 0.95BF ballast (Mean Lumens x2 x 0.95=Mean System Lumens).
8. Ballast input power operating two lamps at 0.95BF.
9. Average life under engineering data with lamps turned off and restarted once every 12 hours.
10. “Sustainable” refers to the lower energy consumption needed when a dimmable ballast is operating at reduced light output levels,
    which can lead to lower carbon emissions as compared to a similar fixed output ballast.
11. This fluorescent lamp is better for the environment because of its reduced mercury content. All fluorescent lamps contain mercury
    for effective operation, however, Philips lamps with ALTO® Lamp Technology average 70% less mercury than the 2001 industry
    average for fluorescent lamps up to sixty inches which are not TCLP-compliant.