LUMALUX® and LUMALUX® ECOLOGIC®
High Pressure Sodium Lamps

LUMALUX® and LUMALUX® ECOLOGIC® high pressure sodium lamps offer a reliable light source with high efficacy and long life. With up to 140 lumens per watt (LPW) initial efficacy and excellent lumen maintenance, these lamps deliver consistent light levels throughout their long lifetime. LUMALUX ECOLOGIC lamps have identical physical and electrical construction to standard LUMALUX lamps, but with reduced mercury content enabling them to pass the Federal TCLP test. The combined product offering builds a complete portfolio of the industry’s most popular high pressure sodium lamp wattages and configurations.

LUMALUX high pressure sodium lamps have a proven history in the marketplace for over 30 years, yet refinements to the technology provide an opportunity to improve performance ratings. As such, many LUMALUX and all LUMALUX® ECO lamps are now rated up to 30,000+ hours average life, which is up to a 25 percent improvement over industry standard products. These lamps also feature lead-free glass, bases and manufacturing process, reducing overall environmental impact.

Key Features & Benefits

LUMALUX®:
- Offers up to 30,000+ hours of average rated life
- Very high efficacy: Up to 140LPW
- Lamps available from 35 to 150 watts in medium base and 50 to 1000 watts in mogul base
- Most types available as clear or coated
- Universal operating position
- Lead-free borosilicate hard glass outer jacket
- Lead-free bases allow a maximum base temperature of 250°C, 40°C higher than ANSI specification for soldered bases

LUMALUX® ECO:
- All ECO products have an average rated life of 30,000+ hours*
- Pass Federal TCLP test 1
- May reduce disposal costs
- Direct replacement for standard HPS lamps that do not pass the Federal TCLP test
- Meets all physical and electrical ANSI requirements

*Except LU1000/ECO

TCLP test results are based on NEMA LL Series standards and are available on request.
ECOLOGIC® is a comprehensive program of OSRAM SYLVANIA focused on addressing environmental issues at all stages of lamp life.

Product Offering

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>35, 50, 70, 100 and 150</td>
<td>Medium</td>
</tr>
<tr>
<td>50, 70, 100, 150, 200, 250, 310, 400, 750 and 1,000</td>
<td>Mogul</td>
</tr>
<tr>
<td>400</td>
<td>RSC</td>
</tr>
</tbody>
</table>

Application Information

Applications
- Architectural
- Canopy
- Floodlighting
- High bay
- Industrial
- Low bay
- Roadway fixture – Cobra head
- Wall mount

See the world in a new light
### Ordering Information

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Ordering Abbreviation</th>
<th>Watts</th>
<th>Bulb</th>
<th>Base</th>
<th>ANSI Code</th>
<th>Avg. Rated Life (hrs)</th>
<th>Initial Lumens</th>
<th>Mean Lumens</th>
<th>CCT</th>
<th>Lamp Efficacy (LPW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67510</td>
<td>LU50/ECO</td>
<td>50</td>
<td>ET23.5</td>
<td>E39 Mogul</td>
<td>S68</td>
<td>30,000+</td>
<td>4,000</td>
<td>3,200</td>
<td>1900K</td>
<td>80</td>
</tr>
<tr>
<td>67512</td>
<td>LU70/ECO</td>
<td>70</td>
<td>ET23.5</td>
<td>E39 Mogul</td>
<td>S62</td>
<td>30,000+</td>
<td>6,300</td>
<td>5,500</td>
<td>1900K</td>
<td>90</td>
</tr>
<tr>
<td>67514</td>
<td>LU100/ECO</td>
<td>100</td>
<td>ET23.5</td>
<td>E39 Mogul</td>
<td>S54</td>
<td>30,000+</td>
<td>9,500</td>
<td>7,150</td>
<td>2100K</td>
<td>95</td>
</tr>
<tr>
<td>67516</td>
<td>LU150/55/ECO</td>
<td>150</td>
<td>ET23.5</td>
<td>E39 Mogul</td>
<td>S55</td>
<td>30,000+</td>
<td>16,000</td>
<td>12,230</td>
<td>2100K</td>
<td>107</td>
</tr>
<tr>
<td>67527</td>
<td>LU250/ECO</td>
<td>250</td>
<td>ET18</td>
<td>E39 Mogul</td>
<td>S66</td>
<td>30,000+</td>
<td>22,000</td>
<td>19,800</td>
<td>2100K</td>
<td>110</td>
</tr>
<tr>
<td>67533</td>
<td>LU400/ECO</td>
<td>400</td>
<td>ET18</td>
<td>E39 Mogul</td>
<td>S50</td>
<td>30,000+</td>
<td>29,000</td>
<td>24,700</td>
<td>2100K</td>
<td>116</td>
</tr>
<tr>
<td>67525</td>
<td>LU1000/ECO</td>
<td>1,000</td>
<td>E25</td>
<td>E39 Mogul</td>
<td>S52</td>
<td>24,000+</td>
<td>130,000</td>
<td>124,000</td>
<td>2100K</td>
<td>125</td>
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</table>

### General Notes:
1. Average rated life based on 10 hours per start and it is defined as the hours at which 50% of a group of lamps are still operating, except where denoted with a “+” next to the life rating, which refers to 65% survival.
2. Mean lumens are measured on ANSI reference circuits at rated wattage and 50% of average rated life.

### Ordering Guide

<table>
<thead>
<tr>
<th>LU</th>
<th>Wattage</th>
<th>Base</th>
<th>Finish</th>
<th>ECO</th>
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<tbody>
<tr>
<td>70</td>
<td>35, 50, 70, 100</td>
<td>(mogul)</td>
<td><em>clear</em></td>
<td><em>ECOLOGIC</em></td>
</tr>
<tr>
<td></td>
<td>150, 200, 250, 310, 400</td>
<td>(mogul)</td>
<td><em>not TCLP passing</em></td>
<td><em>TCLP passing</em></td>
</tr>
<tr>
<td></td>
<td>600, 750, 1000 watts</td>
<td>(medium)</td>
<td></td>
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### Technical Information

#### Typical LumenDepreciation

<table>
<thead>
<tr>
<th>Bulb Diameter</th>
<th>MOL</th>
<th>LCL</th>
<th>Bulb Diameter</th>
</tr>
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<tbody>
<tr>
<td>E17</td>
<td>5.43&quot;</td>
<td>3.42&quot;</td>
<td>2.13&quot;</td>
</tr>
<tr>
<td>ET23.5</td>
<td>7.75&quot;</td>
<td>5&quot;</td>
<td>2.94&quot;</td>
</tr>
<tr>
<td>BT28</td>
<td>8.98&quot;</td>
<td>5&quot;</td>
<td>3.53&quot;</td>
</tr>
<tr>
<td>BT37</td>
<td>11.5&quot;</td>
<td>7&quot;</td>
<td>4.6&quot;</td>
</tr>
<tr>
<td>ET18</td>
<td>9.76&quot;</td>
<td>5.75&quot;</td>
<td>2.2&quot;</td>
</tr>
<tr>
<td>E25</td>
<td>15.08&quot;</td>
<td>8.74&quot;</td>
<td>3.1&quot;</td>
</tr>
<tr>
<td>T7</td>
<td>10.06&quot;</td>
<td>5&quot;</td>
<td>0.88&quot;</td>
</tr>
<tr>
<td>T14.5</td>
<td>11.22&quot;</td>
<td>6.89&quot;</td>
<td>1.81&quot;</td>
</tr>
</tbody>
</table>

#### Typical Survival Curve

- **Percent of Rated Life**
- **Percent Survival**

### Lamp Dimensions

<table>
<thead>
<tr>
<th>Ordering Abbreviation</th>
<th>(A)</th>
<th>(B)</th>
<th>(C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E17</td>
<td>5.43&quot;</td>
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### Related Literature

- Magnetic Ballast Catalog (Literature code: ECS-MAGNETIC 2006)
- HID System Warranty (Literature code: HID043)
Sample Specification

Lamps shall be LUMALUX ECO high pressure sodium lamps that pass the Federal TCLP limits. Lamps shall include a welded, lead-free brass base, a lead-free glass outer jacket, and shall be a direct retrofit for standard HPS.

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Fax: 800-842-7011
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