

# LUMALUX PLUS® AND LUMALUX PLUS® ECO®

Non-Cycling, Lead-Free and Reduced Mercury High Pressure Sodium Lamps

The SYLVANIA LUMALUX PLUS and LUMALUX PLUS ECO lamps incorporate the latest technology to eliminate the end-of-life cycling of HPS lamps. They remain off at end-of-life. LUMALUX PLUS/ECO lamps are constructed with lead-free bases and pass the existing Federal TCLP test.

### Benefits and Features

- Average rated lamp life is 40,000 hours\*
  - 85% survival at 24,000 hours
  - 50% survival at 40,000 hours
- Over 65% longer life than comparable HPS lamps
- Higher maintained light output at end of rated life compared to similar standard High Pressure Sodium lamps
- Non-cycling lamps mean quicker identification of outages, fewer repeat trips and provides less stress to the ignitor\*\*
- Same warm-up and hot restrike time as standard HPS
- Lamp design eliminates voltage rise (standard high pressure sodium lamps may exhibit voltage rise of 30 to 60 volts)
- Passes Federal TCLP test. Lead-free and up to 90% less mercury than standard HPS lamps
- Lead-free base allows a higher maximum base temperature of 250°C; 40°C higher than ANSI specification
- Direct replacements for standard HPS; operates on ballasts of same wattage

### Application Information

#### Applications

- Manufacturing facilities
- Parking lots and garages
- Street and roadway lighting
- Warehouses

#### Fixtures

- High bay
- Low bay
- Parking lot
- Roadway fixture-Cobra head
- Wall mount

\*Except LU1000/PLUS/ECO

\*\*Less stress compared to the ignitor continuously restarting a cycling lamp.

ECOLOGIC® is a comprehensive program focused on addressing environmental issues at all stages of lamp life.



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### Product Offering

| Wattage                                  | Base  | Bulb Finish |
|--|-------|-------------|
| 50, 70, 100, 150, 200, 250, 400 and 1000 | Mogul | Clear       |

### Lamp Comparison

|      | Standard HPS | LUMALUX PLUS/ECO |
|------|--------------|------------------|
| TCLP | Fail         | Pass             |

Based on SYLVANIA TCLP test protocol. Complete data summary available.

### System Maintenance Benefits

1. Easier identification of lamp outages
2. Eliminates repeat trips due to lamp cycling, saving the cost of additional service trips
3. Longer average rated life than standard high pressure sodium lamps, reducing maintenance costs



|             |      |
|-------------|------|
| Catalog #   | Type |
| Project     |      |
| Comments    |      |
| Prepared by |      |

Ordering Guide

|                                     |   |          |             |          |                                 |
|-------------------------------------|---|----------|-------------|----------|---------------------------------|
| <b>LU</b>                           | <b>70</b>   | <b>/</b> | <b>PLUS</b> | <b>/</b> | <b>ECO</b>                      |
| LUMALUX®<br>High Pressure<br>Sodium | Wattage:<br>50, 70, 100, 150,<br>200, 250, 310, 400<br>and 1000 watts |          | Non-Cycling |          | ECOLOGIC®<br>ECO (TCLP passing) |

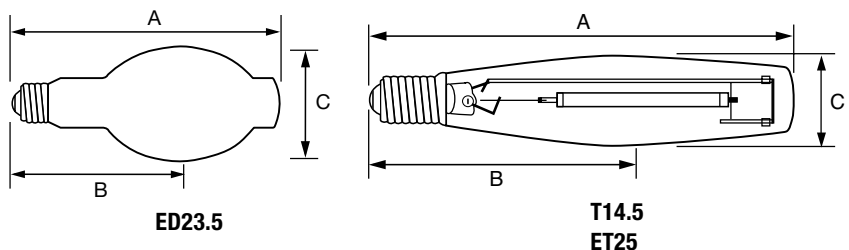
Ordering Information

| Item Number | Ordering Abbreviation <sup>1</sup> | Bulb   | Base | ANSI Spec. Number | Avg. Rated Life <sup>2</sup> (hrs) | Initial Lumens | Mean Lumens <sup>3</sup> | CCT   |
|-------------|------------------------------------|--------|------|-------------------|------------------------------------|----------------|--------------------------|-------|
| 67607       | LU50/PLUS/ECO                      | ED23.5 | E39  | S68               | 40,000                             | 4,000          | 3,140                    | 1900K |
| 67497       | LU70/PLUS/ECO                      | ED23.5 | E39  | S62               | 40,000                             | 6,300          | 5,020                    | 1900K |
| 67559       | LU100/PLUS/ECO                     | ED23.5 | E39  | S54               | 40,000                             | 10,000         | 7,940                    | 2100K |
| 67494       | LU150/55/PLUS/ECO                  | ED23.5 | E39  | S55               | 40,000                             | 16,000         | 14,010                   | 2100K |
| 67495       | LU200/PLUS/ECO                     | T14.5  | E39  | S66               | 40,000                             | 22,000         | 19,030                   | 2100K |
| 67572       | LU250/PLUS/ECO                     | T14.5  | E39  | S50               | 40,000                             | 29,000         | 26,200                   | 2100K |
| 67312       | LU400/PLUS/ECO                     | T14.5  | E39  | S51               | 40,000                             | 50,000         | 42,700                   | 2100K |
| 67316       | LU1000/PLUS/ECO                    | ET25   | E39  | S52               | 30,000                             | 130,000        | 124,000                  | 2100K |

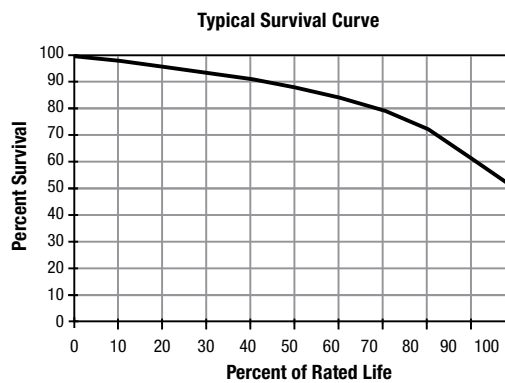
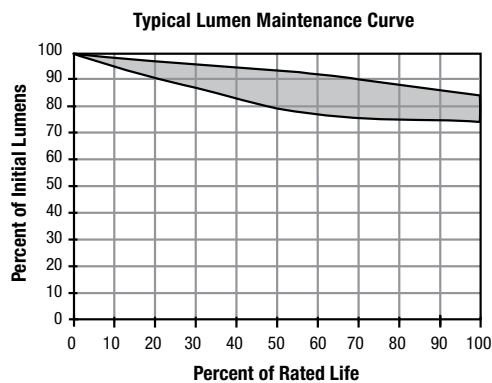
- TCLP claims based on SYLVANIA's TCLP test protocol. Some states and localities have lower limits than the Federal TCLP standard and have different disposal regulations for mercury containing lamps. Data available upon request.
- Average rated life based on 11 hours per start.
- Mean lumens are measured on ANSI reference circuits at rated wattage and 50% of average rated life.
- CRI for LUMALUX PLUS and LUMALUX PLUS/ECO lamps is approximately 22.
- For lamp wattages of 360W or greater, it is recommended that lampholders with nickel-plated copper alloy center contacts (with spring) should be used rather than electrical contacts made of stainless steel.

Lamp Dimensions

| Lamp Shape | (A) MOL (in.) | (B) LCL (in.) | (C) Bulb Diameter (in.) |
|------------|---------------|---------------|-------------------------|
| ED23.5     | 7.75          | 5.0           | 2.94                    |
| T14.5      | 9.76          | 5.75          | 1.83                    |
| ET25       | 15.08         | 8.74          | 3.10                    |



Technical Information



## Sample Specification

Lamp(s) shall be (a) LUMALUX PLUS/ECO non-cycling, high pressure sodium lamp(s) and shall contain up to 90% less mercury than a standard high-pressure sodium lamp. Lamp(s) shall include a lead-free base, shall pass the existing Federal TCLP limits and be rated for 30,000 or 40,000 hours life. Lamp(s) shall be a direct retrofit on existing ANSI designated ballasts of same wattage of standard high-pressure sodium lamps and shall meet existing ANSI specifications for those corresponding wattages. Due to a gap in the tolerances between the ANSI lamp specification and the ANSI ballast/starter specification, the Cooper 220C1/3G11 (G11) ignitor is not compatible with LUMALUX PLUS lamps. For more information please contact your LEDVANCE representative.

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