

# 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 welded bases and pass the existing Federal TCLP test.

SYLVANIA offers the most comprehensive lamp and ballast system solutions. For compatible SYLVANIA ballasts please refer to our Lamp and Ballast Catalog or contact your local SYLVANIA representative.

## Key Features & Benefits

- 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
- Same initial lumens as a standard HPS lamp with a 15% higher maintained light output at end of rated life
- 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 or 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 for lead soldered bases
- Direct replacements for standard HPS; operates on ballasts of similar wattage
- New 6 digit code showing the month, day and year the lamp was manufactured

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

\*\*Except LU50/PLUS/ECO and LU1000/PLUS/ECO

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



## Lamp Comparison

	Standard HPS	LUMALUX PLUS/ECO
TCLP	Fail	Pass

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

## Product Offering

Wattage	Base	Bulb Finish
70 and 100	Medium	Clear
50, 70, 100, 150, 200, 250, 310, 400 and 1000	Mogul	Clear

## 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

### 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



## Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

## Ordering Information

Item Number	Ordering Abbreviation <sup>1</sup>	Bulb	Base	ANSI Spec. Number	Avg. Rated Life <sup>2, 6</sup> (hrs)	Initial Lumens	Mean Lumens <sup>3</sup>	CCT
67607	LU50/PLUS/ECO	ET23.5	E39	S68	40,000	4,000	3,140	1900K
67497	LU70/PLUS/ECO	ET23.5	E39	S62	40,000	6,300	5,020	1900K
67322	LU70/PLUS/MED	E17	E26	S62	40,000	6,300	5,610	1900K
67559	LU100/PLUS/ECO	ET23.5	E39	S54	40,000	10,000	7,940 <sup>6</sup>	2100K
67323	LU100/PLUS/MED	E17	E26	S54	40,000	10,000	8,600 <sup>6</sup>	2100K
67494	LU150/55/PLUS/ECO	ET23.5	E39	S55	40,000	16,000	14,010 <sup>6</sup>	2100K
67495	LU200/PLUS/ECO	ET18	E39	S66	40,000	22,000	19,030	2100K
67572	LU250/PLUS/ECO	ET18	E39	S50	40,000	29,000	26,200	2100K
67660	LU310/PLUS/ECO	ET18	E39	S67	40,000	37,000	34,090	2100K
67312	LU400/PLUS/ECO	ET18	E39	S51	40,000	50,000	42,740	2100K
67316	LU1000/PLUS/ECO	E25	E39	S52	30,000+	130,000	124,000	2100K

1. 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.

2. Average rated life based on 10 hours per start.

3. Mean lumens are measured on ANSI reference circuits at rated wattage and 50% of average rated life.

4. CRI for LUMALUX PLUS and LUMALUX PLUS/ECO lamps is approximately 22.

5. 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.

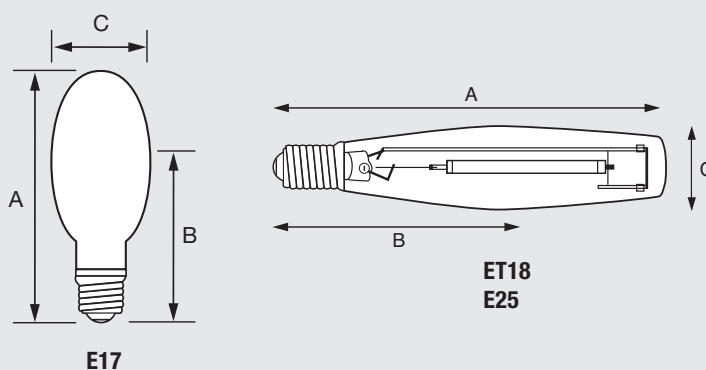
6. Lamp lumen maintenance is 90% at 30,000 hours.

## Ordering Guide

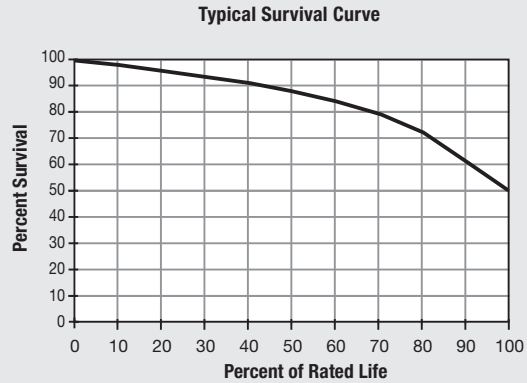
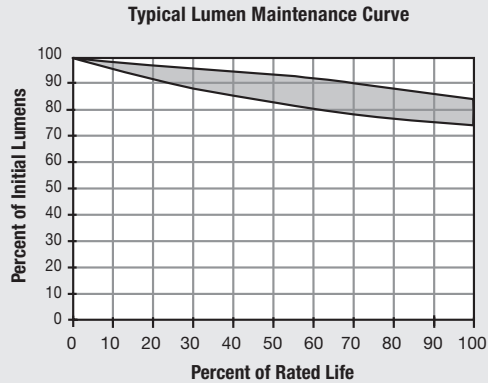
LU	70	/	PLUS	/	/	ECO
LUMALUX® High Pressure Sodium	Wattage: 50, 70, 100, 150, 200, 250, 310, 400 and 1000 watts		Non-Cycling		Base: ____ (mogul) MED (medium)	ECOLOGIC® ____ (not TCLP passing) ECO (TCLP passing)

## Lamp Dimensions

Ordering Abbreviation	(A) MOL (in.)	(B) LCL (in.)	(C) Bulb Diameter (in.)
LU50/PLUS/ECO	7.75	5.0	2.94
LU70/PLUS/ECO	7.75	5.0	2.94
LU70/PLUS/MED	5.43	3.50	2.13
LU100/PLUS/ECO	7.75	5.0	2.94
LU100/PLUS/MED	5.43	3.50	2.13
LU150/55/PLUS/ECO	7.75	5.0	2.94
LU200/PLUS/ECO	9.76	5.75	2.20
LU250/PLUS/ECO	9.76	5.75	2.20
LU310/PLUS/ECO	9.76	5.75	2.20
LU400/PLUS/ECO	9.76	5.75	2.20
LU1000/PLUS/ECO	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 brass 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 similar 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) starter is not compatible with LUMALUX PLUS lamps. Lamp(s) shall remain off at the end of life and shall not cycle. For more information please contact your SYLVANIA representative.

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