

LUMALUX PLUS® AND LUMALUX PLUS® ECO®

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



- Average rated lamp life is now 30,000 hours
- 80% lamp survival at 24,000 hours
65% lamp survival at 30,000 hours
- Same initial lumens as a standard HPS lamp with a 50% increase in maintained light output through life
- Positive end-of-life indicator means quicker identification of outages and less repeat trips
- 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 welded base allows a 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
- Same warm-up time and hot restrike time as standard HPS

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. These lamps have an average rated life of 30,000 hours.

LUMALUX PLUS/ECO lamps are constructed with lead-free welded bases and pass the existing Federal TCLP test.*

* Except LU70/PLUS/MED, LU100/PLUS/MED, and LU1000/PLUS which have a lead soldered base

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



Lamp Comparison

	Standard HPS	LUMALUX PLUS/ECO
Mercury/Lead	Fail	Pass

Compared to 1997 existing Federal limits of 5.0 mg/l for lead and 0.2 mg/l for mercury. Based on OSRAM SYLVANIA TCLP test protocol. Complete data summary available.

Product Availability

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

System Maintenance Benefits

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

Application Information

Applications	Sockets
Street and roadway lighting	Roadway fixture-Cobra head
Parking lots and garages	High bay
Warehouses	Low bay
Manufacturing facilities	Parking lot
	Wall mount



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 welded, lead-free brass base, shall pass the existing Federal TCLP limits and be rated for 30,000 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. Lamp(s) shall remain off at the end of life and shall not cycle.

Ordering and Specification Information

Item Number	Ordering Abbreviation	Bulb	Base	ANSI Spec. Number	Avg. Rated Life ² (hrs)	Initial Lumens	Mean Lumens ³	CCT (K)
67607	LU50/PLUS/ECO	ET23.5	E39	S68	30,000	4000	3600	1900
67497	LU70/PLUS/ECO	ET23.5	E39	S62	30,000	6300	5600	1900
67322	LU70/PLUS/MED	E17	E26	S62	30,000	6300	5600	1900
67559	LU100/PLUS/ECO	ET23.5	E39	S54	30,000	9800	8550	2100
67323	LU100/PLUS/MED	E17	E26	S54	30,000	9800	8550	2100
67494	LU150/55/PLUS/ECO	ET23.5	E39	S55	30,000	16,000	14,400	2100
67495	LU200/PLUS/ECO	ET18	E39	S66	30,000	22,000	19,800	2100
67572	LU250/PLUS/ECO	ET18	E39	S50	30,000	29,000	26,100	2100
67660	LU310/PLUS/ECO	ET18	E39	S67	30,000	37,000	33,300	2100
67312	LU400/PLUS/ECO	ET18	E39	S51	30,000	50,000	45,000	2100
67316	LU1000/PLUS	E25	E39	S52	30,000	130,000	124,000	2100

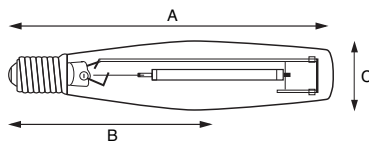
Notes:

1. TCLP claims based on OSRAM 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 lumen rating is measured at 40% of 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.

Ordering Guide

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

Dimensions



Ordering Abbreviation	(A) MOL	(B) LCL	(C) Bulb Diameter
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	15.08"	8.74"	3.10"

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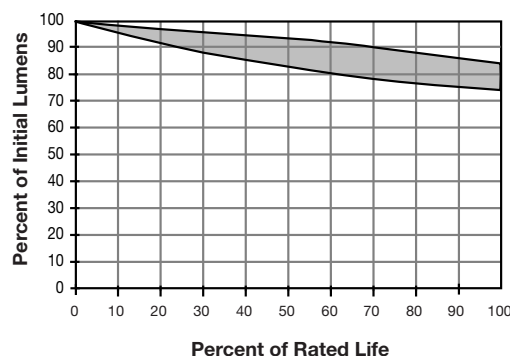
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Special Markets

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Technical Information

Typical Lumen Maintenance Curve



Typical Mortality Curve

