LUMALUX® and LUMALUX® ECOLOGIC®

High Pressure Sodium Lamps

LUMALUX and LUMALUX ECO 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 pass the Federal TCLP test[1] and have identical physical and electrical construction to standard LUMALUX lamps. 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 and also feature lead-free glass, bases and manufacturing processes, reducing overall environmental impact.



Benefits and Features

LUMALUX:

- Very high efficacy: Up to 140LPW
- Lamps available from 50 to 150 watts in medium base and 50 to 1000 watts in mogul base
- Universal operating position
- Lead-free outer jacket
- Lead-free bases allow a maximum base temperature of 250°C, 40°C higher than ANSI specification

LUMALUX ECO:

- All ECO products have an average rated life of 24,000 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

Product Offering

Ordering Description	Base
50, 70, 100 and 150	Medium
50, 70, 100, 150, 200, 250, 400, 750 and 1,000	Mogul

Application Information

Applications

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

1. TCLP test results are based on NEMA LL Series standards.

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

ECOLOGIC®

LEAD-FREE

SYLVANIA

HID027R14 9-23

Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

LU	70	/	—	/	ECO
LUMALUX® High Pressure Sodium	Wattage: 50, 70, 100, 150, 200, 250, 400, 750 and 1000 watts		Base: __ (mogul) MED (medium)		ECOLOGIC __ (not TCLP passing) ECO (TCLP passing)

Ordering Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Code	Average Rated Life (hrs.)[1]	Initial Lumens	Mean Lumens[2]	CCT	Lamp Efficacy (LPW)
LUMALUX® ECOLOGIC®										
67510	LU50/ECO	50	E23.5	E39 Mogul	S68	24,000	4,000	3,200	1900K	80
67512	LU70/ECO	70	E23.5	E39 Mogul	S62	24,000	6,300	5,500	1900K	90
67514	LU100/ECO	100	E23.5	E39 Mogul	S54	24,000	9,500	7,150	2100K	95
67516	LU150/55/ECO	150	E23.5	E39 Mogul	S55	24,000	16,000	12,230	2100K	107
67576	LU200/ECO	200	T14.5	E39 Mogul	S66	24,000	22,000	19,600	2100K	110
67578	LU250/ECO	250	T14.5	E39 Mogul	S50	24,000	29,000	24,700	2100K	116
67533	LU400/ECO	400	T14.5	E39 Mogul	S51	24,000	50,000	40,300	2100K	125
67307	LU1000/ECO	1,000	ET25	E39 Mogul	S52	24,000	130,000	124,000	2100K	130
LUMALUX										
67502	LU50/MED	50	ED17	E26 Med.	S68	24,000	4,000	3,600	1900K	80
67504	LU70/MED	70	ED17	E26 Med.	S62	24,000	6,300	5,350	1900K	90
67506	LU100/MED	100	ED17	E26 Med.	S54	24,000	9,500	8,000	2100K	95
67508	LU150/MED	150	ED17	E26 Med.	S55	24,000	15,800	13,400	2100K	105
67547	LU750	750	BT37	E39 Mogul	S111	24,000	105,000	94,500	2100K	140

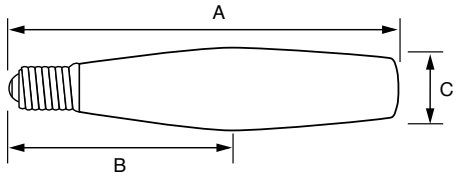
1. Average rated life based on 11 hours per start and it is defined as the hours at which 50% of a group of lamps are still operating.
2. Mean lumens are measured on ANSI reference circuits at rated wattage and 50% of average rated life.

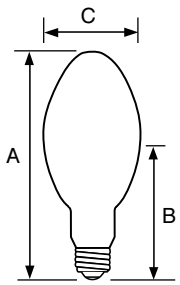
General Notes:
a. TCLP claims based on SYLVANIA's TCLP test protocol. Some states and localities have lower limits than the Federal TCLP standard and have different disposal regulations for mercury containing lamps. Data available upon request.
b. CRI for LUMALUX and LUMALUX ECO lamps is approximately 22.
c. 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

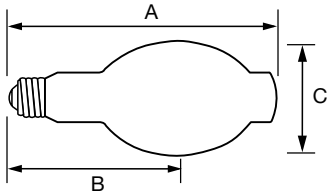
Lamp Shape	(A) MOL	(B) LCL	(C) Bulb Diameter
ED17	5.43"	3.42"	2.13"
ED23.5	7.75"	5"	2.94"
BT37	11.5"	7"	4.6"
T14.5	9.76"	5.75"	1.83"
ET25	15.08"	8.74"	3.1"

T14.5
ET25

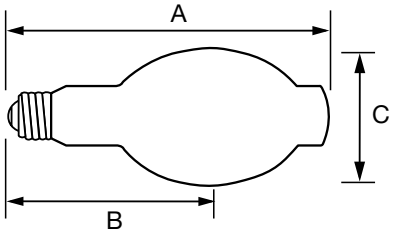




ED17



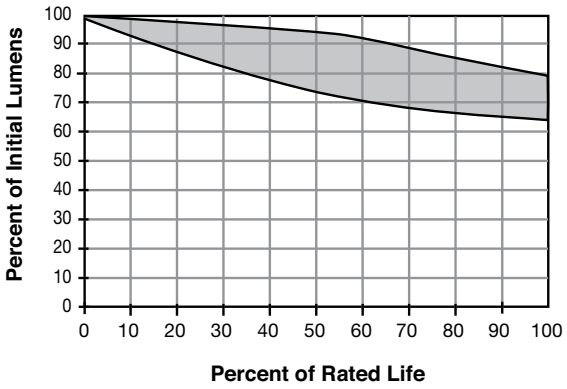
ED23.5



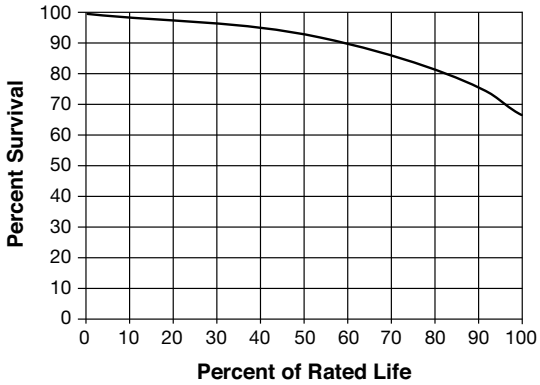
BT37

Technical Information

Typical Lumen Depreciation



Typical Survival Curve



Sample Specification

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

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