

PHILIPS

Lamps

Ceramalux®

High Pressure Sodium lamps



Philips Ceramalux® high pressure sodium non-cycling lamps featuring ALTO® lamp technology

A better value than standard high pressure sodium lamps, with longer life and reduced maintenance cost. Ideal for street and roadway lighting, parking lots, garages, warehouses and manufacturing facilities.

Rated average life of 40,000 hours¹

- 50% lamp survival at 40,000 hours
- 67% lamp survival at 33,000 hours
- 80% lamp survival at 24,000 hours
- 25% longer life than standard HPS lamps

Reduces maintenance costs

- Lamp goes out—stays out
- Eliminates unnecessary service trips to replace lamp

Environmentally responsible

- Passes the US EPA's TCLP for non hazardous waste²
- Sustainable lighting solution: Up to 90% less mercury than standard Philips Ceramalux® high pressure sodium lamps and lead free

Direct replacement for standard HPS lamps

- 90% lumen maintenance
- Operates on HPS ballasts of similar wattages

1. Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.

2. The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure. Check state and local regulations regarding non-hazardous waste.

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Ordering, Electrical and Technical Data (subject to change without notice)

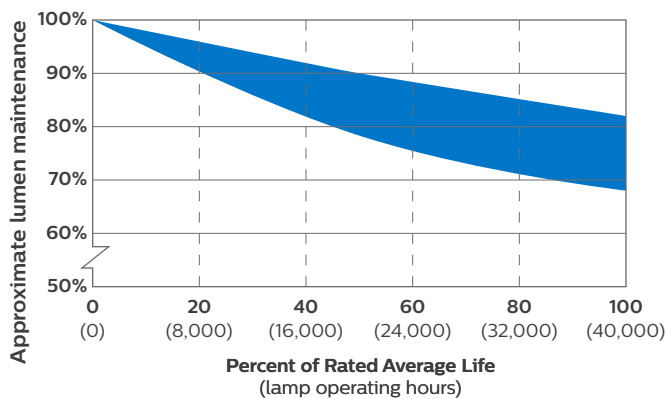
Product Number	Ordering Code	ANSI Code	Nominal Watts	Lamp Type	Base	Pkg. Qty.	Lamp Finish	LCL	MOL	Avg. Life (hours)	Rated Initial Lumens ²	Approx. Mean Lumens ³	Approx. Color Temp (kelvin) ⁴
46732-4	C70S62/ALTO NC HPS	S54	70	ED231/2	Mogul	12	Clear	5"	7 ³ / ₄ "	40,000	6,300	5,610	2100
46735-7	C100S54/ALTO NC HPS	S54	100	ED231/2	Mogul	12	Clear	5"	7 ³ / ₄ "	40,000	10,000	9,000	2100
46733-2	C150S55/ALTO NC HPS	S55	150	ED231/2	Mogul	12	Clear	5"	7 ³ / ₄ "	40,000	16,000	14,400	2100
46734-0	C250S50/ALTO NC HPS	S50	250	ED18	Mogul	12	Clear	5 ³ / ₄ "	9 ³ / ₄ "	40,000	28,500	25,650	2100
46736-5	C400S51/ALTO NC HPS	S51	400	ED18	Mogul	12	Clear	5 ³ / ₄ "	9 ³ / ₄ "	40,000	50,000	45,000	2100

1. Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.
2. Approximate lumen values listed are for vertical or horizontal operation of lamp.
3. Approximate mean lumen output at 40% of lamp rated average life.
4. Approximate color temperature in Kelvin degrees.

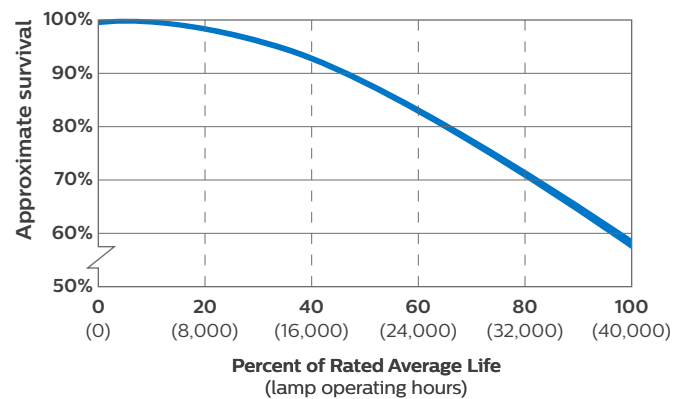


This lamp is better for the environment because of its reduced mercury content. All Philips ALTO® lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations.

Approximate lumen maintenance



Approximate survival curve



Recommended warnings, cautions, and operating instructions

These lamps must be operated in fixtures designed for use with High Pressure Sodium lamps. The fixture wattage rating must match the wattage indicated on the outer glass bulb. Do not scratch the outer bulb or subject it to pressure as this could cause the outer bulb to crack or shatter. A partial vacuum in the outer bulb may cause glass to fly if the glass is struck. Operating the lamp improperly may result in personal injury, property damage, burns and fire.

1. If the outer glass bulb is broken, shut off power immediately and remove the lamp after it has cooled.
2. Use only auxiliary equipment meeting Philips and/or ANSI standards. Use within voltage limits recommended by ballast manufacturer.
 - A. Operate lamp only within specified limits of operation.
 - B. For total supply load refer to ballast manufacturers electrical data.
3. Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
4. Replace the lamp if the outer glass bulb has been scratched, cracked or damaged in any way.
5. If a lamp bulb support is used, be sure to insulate the support electrically so as to avoid possible decomposition of the bulb glass.
6. Do not use this lamp in a fixture which redirects a substantial portion of the energy toward the arc tube and its immediate vicinity, as this may lead to very early lamp failure.
7. Take care in handling and disposing of lamps. If arc tube is broken, avoid skin contact with any of the contents or fragments.
8. The arc tube of this lamp contains sodium and mercury. Dispose of in accordance with federal, state and local requirements.



Do not place in trash - dispose according to local, state, or federal laws

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Philips Lighting, North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Imported by: Philips Lighting,
A division of Philips Electronics Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008