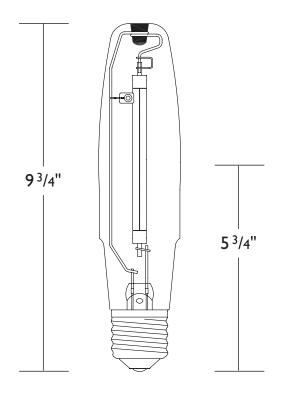
Ceramalux High Pressure Sodium Non-Cycling 250 Watt ED-18 (Clear) Lamp

Featuring ALTO Lamp Technology



Ordering Information

Ordering Code	C250S50/ALTO NC HPS 12PK	
ANSI Designation	S50	
Product Number	l 4742- l	
Description	High Pressure Sodium	
	TCLP* Compliant	
	Non-Cycling	
Package Quantity	12	

▶ Physical Characteristics

Bulb Size	ED-18
Bulb Finish	Clear
Base	Mogul Screw
Maximum Overall Length (MOL)	9¾" (248mm)
Light Center Length (LCL)	5¾" (146mm)
Arc Length	2.4" (62mm)
Arc Tube Length	3.5" (91mm)
Arc Tube Material	Aluminum Oxide
Max. Permissible Bulb Temp.	400°C (752°F)
Max. Permissible Base Temp.	210°C (410°F)
Max. Bulb to Base Eccentricity	3°
Max. Arc Tube to Base Eccentricity	3°

▶ Operating Characteristics (Photometric)

28,500			
25,650			
30,000			
Correlated Color Temperature (CCT) ^{3,5} 2000 K			
x530, y405			
25			
114			

Operating Position

Universal

▶ TCLP* Characteristics

Toxicity Characteristic Leaching Procedure (US EPA TCLP) Results

	Hg	Pb
EPA Limit (mg/l) max	0.200	5.00
C250S50/ALTO NC HPS	0.082	0.76
Mercury (mg/lamps) max	6.6	



Philips Lighting 281 Hillmount Road Markham, Ontario Canada L6C 2S3 1-800-555-0050 A Division of Philips Electronics Ltd.

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TCLP Compliant

Lamp Watts (Nominal) 250 Lamp Operating Voltage (rms) (Nominal)3 100 Initial Lamp Voltage Range (rms) Lamp Operating Current (Amps) (rms) (Nominal) 2.8 Maximum Lamp Starting Current (Amps) (rms) 4.5 1.8 Lamp Current Crest Factor (Maximum) Warm-up Time to 80% of Output Restrike Time for Hot Lamp

Ballast Type

Ballast Open Circuit Voltage (Minimum)

Pulse Peak Volts Pulse Width @ 90% Peak

Pulse Frequency (Minimum) Lag Ballast

Lead Circuit Ballast

Minimum Operating Temperature Reference Ballast Impedance

Maximum Lamp Watts Minimum Lamp Watts

Maximum Voltage Increase by Fixture

90-110

4 Minutes I-2 Minutes ANSI S50 198

2500 Min., 4000 Max. I Micro Second Minimum

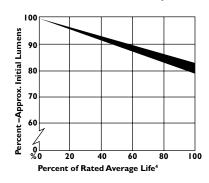
I per Cycle I per Half Cycle

-30°C 59 Ohms at 220V RIV

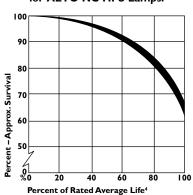
315 185

10

Approximate Lumen Maintenance Curve for ALTO NC HPS Lamps:



Approximate Survival Curve for ALTO NC HPS Lamps:



- 1) Measured at 100 hrs. life. Approximate lumen values listed are for vertical or horizontal operation of lamp.
- 2) Approximate mean lumen output at 40% of lamp rated average life.
- 3) Measured at rated lamp watts on a linear reactor. LPW does not include ballast losses.
- 4) 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 65% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.
- 5) Approximate color temperature in Kelvin degrees.
- 6) Measured with the lamp operating at rated watts. Measured lamp voltage will change as the ballast changes lamp wattage.
- * The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure

WARNINGS, CAUTIONS AND OPERATING **INSTRUCTIONS** for Ceramalux High Pressure Sodium Lamps

"WARNING: 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
- 7) Take care in handling and disposing of lamps. If arc tube is broken, avoid skin contact with any of the contents
- 8) The arc tube of this lamp contains sodium and mercury. Dispose of in accordance with federal, state and local requirements.

