



**High Pressure Sodium Lamps
Internal Parts Identification and Function
End of Life or Lamp Failure Indicators
Hortilux™ SUPER HPS and Hortilux™ ULTRA ACE**

New Vacuum Lamp
Appearance

Frame Support and Other Components

– Supports the arc tube and provides electrical connections to components. Welds are susceptible to breakage due to excessive vibration or rough handling



Normal End of Life indication - Sodium Loss depicted by yellowing of lamp outer jacket

Newly Produced Arc Tube – Bright white appearance – Ends will appear ‘dark silver’ at installation due to 100% start up testing and chemicals depositing after the initial cool down. Ends will clear during initial operation, and then over life tungsten will deposit at ends gradually darkening them



Arc Discharge in Outer Jacket – Lamp experienced a seal leak that resulted in an arc discharge in the outer jacket during lamp operation



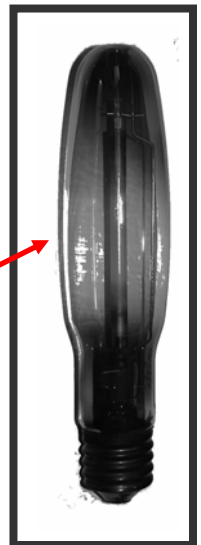
Getter Flash – Mirror-like Finish



Getter Flash absorbs oxygen, hydrogen and other impurities present within the lamp. These impurities can result in the rapid deterioration of the metal parts...resulting in lamp failure

Normal End of Life - Due to arc tube crack or seal failure

Arc Tube Crack/Leak - Mercury Sodium Amalgam coats the inside of the glass bulb





**EYE LIGHTING INTERNATIONAL
OF NORTH AMERICA, INC.**
A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.



Monogram Improvements and Variations Manufactured Date Code Interpretation

EYE HORTILUX



LU1000B /HTL
/EN
S52

U.S.A. (Hg)
04E

OLD Date Code

This date code is old and the lamp will be out of warranty, unless the customer can prove date of sale is within one year.

Example: Manufactured Date 04E = May, 2004



HORTILUX SUPER HPS
LU1000B/HTL/EN
66785 S52 USA 094 06

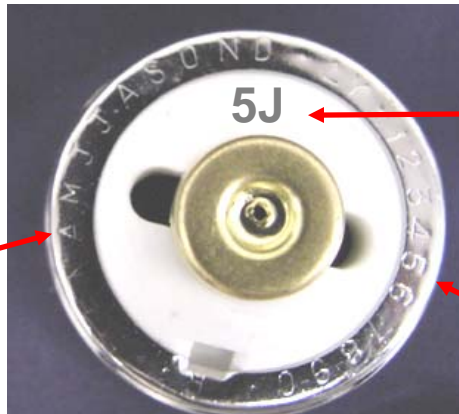


NEW 'Julian' Date Code

Example: Manufactured Date
94th day of 2006 = April 4th, 2006

Identifies type of lamp:	LU	400	S	/ HTL /	EN	Identifies feature of lamp
LU: High Pressure Sodium lamp						EN: Environmental friendly
LUR: Reflectorized High Pressure Sodium lamp						S: High efficacy
NH: High Pressure Sodium Conversion lamp						
NHT: High Pressure Sodium Conversion lamp with tubular bulb						
		Identifies lamp wattage		HTL: Horticulture		

Mark ^(*) the month and year of sale on the base by using a permanent marker or a scribe, marking both the month and year of sale



Secondary Date Code Application –
Year/Month – 5J =
September 2005

Month J, F, M, A, M, J, J, A, S, O, N, D

Year 0-9

HORTILUX™ WARRANTY

EYE LIGHTING INTERNATIONAL OF NORTH AMERICA INC. EXCLUSIVE HIGH INTENSITY DISCHARGE (HID) LAMP LIMITED WARRANTY/REMEDY

The following exclusive limited warranty and remedy shall apply to EYE Hortilux™ Super HPS, Hortilux™ Metal Ace, Hortilux™ Ultra Ace, Hortilux™ Blue lamps, and Hortilux™ Metal Halide. EYE Lighting International warrants all Hortilux™ lamps to be free from defects in material and workmanship for the following period:

One year from the date of ^(*) sale or, if unknown, from date of manufacture, provided that such lamps are operated on ballasts and luminaires that meet all applicable ANSI specifications or, where no ANSI specifications exist, Iwasaki Electric / EYE Lighting specifications.

EQS-N-52-46-00002