Non-Cycling, Low Mercury HPS Lamps

Reduced mercury for lower disposal costs.
Environmentally-friendly Ecolux® NC™ lamps feature mercury reduction of 56% up to 93% vs. standard HPS lamps and a lead-free base. Passes the EPA Toxicity Characteristic Leaching Procedure Test (TCLP), substantially lowering disposal costs (up to $4 per lamp reduction), where applicable.*

Non-cycling makes end-of-life replacement quick and easy.
Most high pressure sodium lamps will cycle on and off when approaching end of life, making expired lamps difficult to locate and replace. The Ecolux NC lamps simply die, they will not light, so it is easy to spot for replacement. This can reduce maintenance service trips thus reducing labor costs by $20 per lamp in a typical streetlighting system.

More light.
Popular 100- and 400-watt types feature 6% and 11% higher initial lumens, respectively, than standard lamps. Other wattages deliver the same high light output as standard HPS lamps.

Direct replacement of existing HPS lamps.
GE Ecolux NC lamps fit standard high pressure sodium sockets. No new ballasts or fixtures are needed.

Longer life and same outstanding efficiency as standard HPS lamps.

*State regulations vary. Consult your state EPA.
## General Electric Company

**High Pressure Sodium Lamp Specifications**

**Ecolux**^NC^ Non-Cycling, Low Mercury

### Product Information

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### Physical Characteristics

- **Burning Position**: Universal
- **Bulb Designation**: ED23.5
- **Bulb Material**: Hard Glass
- **Bulb Nominal Diameter, mm (in.)**: 75 (2 15/16")
- **Base Type**: Mogul
- **[Material]**: Brass/No Lead
- **Light Center Length, mm (in.)**: 127 (5")
- **Max. Overall Length, mm (in.)**: 197 (7 3/4")
- **Arc Length, mm (in.)**: 30 (1 1/8")
- **Max. Bulb Temp. °C**: 400° C
- **Max. Base Temp. °C**: 210° C
- **Eccentricity: Bulb to Base**: 3°
- **Eccentricity: Bulb to Arc Axis**: 3°

### Luminaire Characteristics — Open or Enclosed

- **Nominal Lamp Watts**: 70, 100, 150, 250, 400, 200
- **Maximum Lamp Amps – Starting**: 2.4, 3.2, 4.8, 4.5, 7.5
- **Nominal Lamp Amps – Operating**: 1.6, 2.1, 3.2, 3.0, 4.6
- **Max. Current Crest Factor**: 1.8, 1.8, 1.8, 1.8, 1.8
- **Ballast OCV, Minimum**: 110, 110, 110, 118, 198

### Starting Pulse Requirements

- **Pulse Peak Volts (min.)**: 2500, 2500, 2500, 2500, 2500
- **Min. Pulse Width (microseconds)**: 1 @ 2250, 1 @ 2250, 50 per second, 50 per second, 50 per second
- **Min. Pulse Repetition**: 0.2, 0.2, 0.2, 0.2, 0.2
- **Min. Pulse Peak Current (amp)**: 4000, 4000, 4000, 4000, 4000

### Photometric Characteristics

- **Initial Lumens**: 6300, 9800, 16000, 29000, 54000
- **Mean Lumens @ 50% Rated Life**: 5670, 8820, 14400, 26100, 48600
- **Average Rated Life (hrs.)**: 30000, 30000, 40000, 40000, 40000
- **Color Rendering Index @ CCT (K)**: 23 @ 1900, 23 @ 2000, 23 @ 2000, 30 @ 2000, 30 @ 2100
- **Warm Up Time (Minutes) to 90%**: 3 to 4, 3 to 4, 3 to 4, 3 to 4, 3 to 4
- **Hot Restart Time (Minutes) to 90%**: 5 maximum, 5 maximum, 5 maximum, 5 maximum, 5 maximum
- **CIE Chromaticity Coordinates: X**: 0.536, 0.530, 0.527, 0.529, 0.525
- **CIE Chromaticity Coordinates: Y**: 0.414, 0.424, 0.418, 0.417, 0.421

### Reference Lumens

- Rated average lamp lumens obtained under controlled laboratory conditions in a prescribed burning position. Initial Reference Lumens refer to the lamp lumen output after 100-hours burning. Mean Reference Lumens refer to the lumen lamp output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for high pressure sodium lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumens ratings.

Lumen maintenance is measured under specified test conditions at rated lamp watts for lamps that have been operated 10 or more burning hours per start on typical commercial ballasts. Rated mean lumens are measured at 50% of rated life, at rated lamp watts.

For additional product and application information, please consult GE’s Website: www.gelighting.com

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