



Reduce maintenance costs

Ceramalux ALTO Non-Cycling

Philips Ceramalux High Pressure Sodium Non-Cycling Lamps are a better value than standard high pressure sodium lamps, with longer life and reduced maintenance cost.

Benefits

- More resistant to outages caused by vibration and line voltage fluctuations.
- 90% lumen maintenance.
- Sustainable lighting solution - up to 90% less mercury than standard Philips Ceramalux HPS lamps and lead free.

Features

- Rated average life of 30,000 hours*
- Direct replacement for standard HPS lamps
- 200, 250 and 400 Watts available in the ED18 mogul base / 50, 70, 100 and 150 Watts available in the ED 23-1/2 mogul base / 1000 Watts available in the ED 25 mogul base.
- * 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. Approximate lumen output at 40% of rated life. 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.

Application

- Ideal for street and roadway lighting, parking lots and garages, warehouses and manufacturing facilities where lower maintenance costs are desired.

Warnings and Safety

- Lamp contains mercury.
- Manage in Accord with Disposal Laws.
- See: www.lamprecycle.org or 1-800-555-0050

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Versions

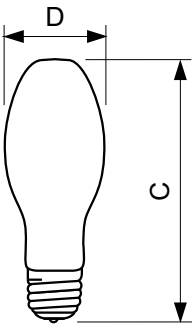
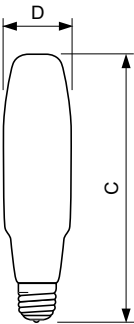


70 W Single Contact Mogul Screw
ED-23 1/2 Clear



E39, ED-18, Clear

Dimensional drawing



| Product | D | L | C (max) |
|--------------------------|---------|----------|---------|
| C250S50/ALTO NC HPS 12PK | 2.25 in | 5.750 in | 9.75 in |

| Product | D | L | C (max) |
|--------------------------|---------|----------|---------|
| C150S55/ALTO NC HPS 12PK | 2.94 in | 5.000 in | 7.75 in |
| C70S62/ALTO NC HPS 12PK | 2.94 in | 5.000 in | 7.75 in |

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| | |
|-------------------------------|---------------------|
| General information | |
| Cap-Base | E39 |
| Main Application | Street Lighting (S) |
| Operating Position | Universal |
| Luminaire design requirements | |
| Bulb Temperature (Max) | 752 °F |
| Light technical | |
| Color Rendering Index (Nom) | 21 |
| Mechanical and housing | |
| Bulb Finish | Clear |
| Bulb Material | Hard Glass |

Approval and application

| Order Code | Full Product Name | Mercury (Hg) | Picogram Per Lumen |
|------------|--------------------------|---------------|--------------------|
| | | Content (Nom) | Hour |
| 467324 | C70S62/ALTO NC HPS 12PK | 1.4 mg | 8.3 pg/lm.h |
| 467332 | C150S55/ALTO NC HPS 12PK | 2 mg | 4.6 pg/lm.h |

| Order Code | Full Product Name | Mercury (Hg) | Picogram Per Lumen |
|------------|--------------------------|---------------|--------------------|
| | | Content (Nom) | Hour |
| 467340 | C250S50/ALTO NC HPS 12PK | 3.36 mg | 4.4 pg/lm.h |

Operating and electrical

| Order Code | Full Product Name | Lamp Current (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) | Power (Nom) | Re-Ignition Time (Min) (Max) |
|------------|--------------------------|--------------------|---------------|---------------|---------------|-------------|------------------------------|
| 467324 | C70S62/ALTO NC HPS 12PK | 1.45 A | 60 V | 44 V | 52 V | 70.2 W | 5 min |
| 467332 | C150S55/ALTO NC HPS 12PK | 3.2 A | 62 V | 48 V | 55 V | 150.6 W | 7 min |
| 467340 | C250S50/ALTO NC HPS 12PK | 1.8 A | 120 V | 90 V | 100 V | 251 W | 2 min |

Light technical (1/2)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Correlated Color | Luminous Efficacy | Luminous Efficacy | Design Mean | Luminous Flux |
|------------|--------------------------|--------------------|--------------------|------------------|-------------------|-------------------|-------------|---------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | | | | | |
| 467324 | C70S62/ALTO NC HPS 12PK | 0.523 | 0.425 | - | 79 lm/W | 90 lm/W | 5670 lm | 5500 lm |
| 467332 | C150S55/ALTO NC HPS 12PK | 0.525 | 0.417 | 2100 K | 96 lm/W | 106 lm/W | 14400 lm | 14400 lm |
| 467340 | C250S50/ALTO NC HPS 12PK | 0.523 | 0.415 | 2100 K | 102 lm/W | 114 lm/W | 25650 lm | 25600 lm |

Light technical (2/2)

| Order Code | Full Product Name | Luminous Flux (Rated) (Nom) |
|------------|--------------------------|-----------------------------|
| 467324 | C70S62/ALTO NC HPS 12PK | 6300 lm |
| 467332 | C150S55/ALTO NC HPS 12PK | 16000 lm |

| Order Code | Full Product Name | Luminous Flux (Rated) (Nom) |
|------------|--------------------------|-----------------------------|
| 467340 | C250S50/ALTO NC HPS 12PK | 28500 lm |

Mechanical and housing

| Order Code | Full Product Name | Bulb Shape |
|------------|--------------------------|------------|
| 467324 | C70S62/ALTO NC HPS 12PK | ED-23 1/2 |
| 467332 | C150S55/ALTO NC HPS 12PK | ED-23 1/2 |

| Order Code | Full Product Name | Bulb Shape |
|------------|--------------------------|------------|
| 467340 | C250S50/ALTO NC HPS 12PK | ED18 |

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