



Energy efficiency and long life

Ceramalux Non-ALTO

Philips Ceramalux lamps provide efficient lighting solutions for industrial applications, warehouses, post top applications and parking lots.

Benefits

- Long Life - 24,000 hours Rated Average Life.
- Available in a multitude of bases and wattages.

Features

- Low total cost of ownership.
- Long life—up to 24,000 hours.
- High efficacy up to 140 LPW.
- BD-17 available in 35, 50, 70, 100, 150 watts / PAR 38 available in 70 watts / ED-18 available in 225, 310, 360 and 430 watts / T-14 available in 600 watts / ED-37 available in 1000 watts.

Application

- Ideal for security lighting, roadway lighting, warehouse lighting, and industrial applications.

Ceramalux Non-ALTO

Versions



E39, ED-18, Clear



E39, ED-23 1/2, Clear

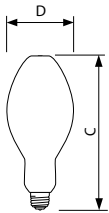
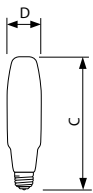
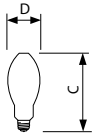


E39, ED-37, Clear



E26, BD-17, Clear

Dimensional drawing



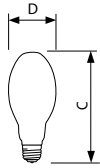
| Product | D | C (max) |
|-----------------------------|----------|----------|
| C100S54/M PH 12PK | 2.125 in | 5.438 in |
| SON 150W E26 BD54 CL SL/12 | 2.125 in | 5.438 in |
| C70S62/M PH 12PK | 2.125 in | 5.438 in |
| 35W BD17 HP SODIUM HID CLR | 2.125 in | 5.438 in |
| 150W BD17 HP SODIUM HID CLR | 2.125 in | 5.438 in |
| 100W BD17 HP SODIUM HID CLR | 2.125 in | 5.438 in |
| 70W BD17 HP SODIUM HID CLR | 2.125 in | 5.438 in |
| 50W BD17 HP SODIUM HID CLR | 2.125 in | 5.438 in |
| C50S68/M 12pk | 2.125 in | 5.438 in |
| C35S76/M 12PK | 2.125 in | 5.438 in |

| Product |
|-------------|
| C250S50 3PK |

| Product | D | C (max) |
|-------------------|----------|---------|
| C1000S52/ED37 6PK | 4.625 in | 11.5 in |

Ceramalux Non-ALTO

Dimensional drawing



Product

C100S54 3PK

General Information

Operating Position Universal

Luminaire Design Requirements

Bulb Temperature (Max) 400 °C

Light Technical

Correlated Color Temperature (Nom) 2100 K

Mechanical and Housing

Bulb Finish Clear (CL)

Approval and Application

| Order Code | Full Product Name | Mercury | | |
|------------|--------------------------------|----------------------------|--------------------|-------------------------|
| | | Mercury (Hg) Content (Max) | (Hg) Content (Nom) | Picogram Per Lumen Hour |
| 140979 | SON ALTO 250W LV E E39 CL SL/3 | 23.5 mg | - | - |
| 140953 | SON ALTO 100W LV E E39 CL SL/3 | 22.1 mg | - | - |
| 323865 | C1000S52/ED37 6PK | 55.2 mg | - | 20.5 pg/lm.h |
| 460824 | C100S54/M 3PK | 22 mg | - | - |
| 467274 | C100S54/M PH 12PK | 22 mg | - | - |
| 460816 | 70W BD17 HP SODIUM HID CLR | 17 mg | - | - |

| Order Code | Full Product Name | Mercury | | |
|------------|-------------------|----------------------------|--------------------|-------------------------|
| | | Mercury (Hg) Content (Max) | (Hg) Content (Nom) | Picogram Per Lumen Hour |
| 467282 | C70S62/M PH 12PK | 17 mg | - | - |
| 460857 | C35S76/M 3PK | - | 16.8 mg | - |
| 467290 | C35S76/M 12PK | - | 16.8 mg | - |
| 460840 | C50S68/M 3PK | 17.7 mg | - | - |
| 467308 | C50S68/M 12pk | 17.7 mg | - | - |
| 460832 | C150S55/M 3PK | 17 mg | - | 46.6 pg/lm.h |
| 467316 | C150S55/M 12PK | 17 mg | - | 46.6 pg/lm.h |

Operating and Electrical

| Order Code | Full Product Name | Lamp Current (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) | Re-Ignition Time (Min) (Max) |
|------------|--------------------------------|--------------------|---------------|---------------|---------------|------------------------------|
| 140979 | SON ALTO 250W LV E E39 CL SL/3 | 3.0 A | 110 V | 79 V | 95 V | 2 min |
| 140953 | SON ALTO 100W LV E E39 CL SL/3 | 2.1 A | 62 V | 45 V | 55 V | 2 min |
| 323865 | C1000S52/ED37 6PK | 4.7 A | 270 V | 210 V | 225 V | 2 min |
| 460824 | C100S54/M 3PK | 2.1 A | 62 V | 45 V | 55 V | 2 min |
| 467274 | C100S54/M PH 12PK | 2.1 A | 62 V | 45 V | 55 V | 2 min |
| 460816 | 70W BD17 HP SODIUM HID CLR | 1.6 A | 60 V | 44 V | 52 V | 2 min |
| 467282 | C70S62/M PH 12PK | 1.6 A | 60 V | 44 V | 52 V | 2 min |
| 460857 | C35S76/M 3PK | 0.83 A | 62 V | 45 V | 55 V | 5 min |

Ceramalux Non-ALTO

| Order Code | Full Product Name | Lamp Current (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) | Re-Ignition Time (Min) (Max) |
|------------|-------------------|--------------------|---------------|---------------|---------------|------------------------------|
| 467290 | C35S76/M 12PK | 0.83 A | 62 V | 45 V | 55 V | 5 min |
| 460840 | C50S68/M 3PK | 1.18 A | 62 V | 46 V | 52 V | 2 min |
| 467308 | C50S68/M 12pk | 1.18 A | 62 V | 46 V | 52 V | 2 min |
| 460832 | C150S55/M 3PK | 3.2 A | 62 V | 48 V | 55 V | 2 min |
| 467316 | C150S55/M 12PK | 3.2 A | 62 V | 48 V | 55 V | 2 min |

General Information

| Order Code | Full Product Name | Cap-Base | Main Application | Order Code | Full Product Name | Cap-Base | Main Application |
|------------|--------------------------------|----------|-----------------------------|------------|-------------------|----------|----------------------|
| 140979 | SON ALTO 250W LV E E39 CL SL/3 | E39 | General and Street Lighting | 460857 | C35S76/M 3PK | E26 | General Lighting (G) |
| 140953 | SON ALTO 100W LV E E39 CL SL/3 | E39 | General and Street Lighting | 467290 | C35S76/M 12PK | E26 | General Lighting (G) |
| 323865 | C1000S52/ED37 6PK | E39 | General and Street Lighting | 460840 | C50S68/M 3PK | E26 | General Lighting (G) |
| 460824 | C100S54/M 3PK | E26 | General Lighting (G) | 467308 | C50S68/M 12pk | E26 | General Lighting (G) |
| 467274 | C100S54/M PH 12PK | E26 | General Lighting (G) | 460832 | C150S55/M 3PK | E26 | General Lighting (G) |
| 460816 | 70W BD17 HP SODIUM HID CLR | E26 | General Lighting (G) | 467316 | C150S55/M 12PK | E26 | General Lighting (G) |
| 467282 | C70S62/M PH 12PK | E26 | General Lighting (G) | | | | |

Light Technical (1/2)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Color | Color | Lumen | | Luminous Efficacy (rated) (Min) |
|------------|--------------------------------|--------------------|--------------------|-----------------------|-----------------------|---------------------------------|---------------------|---------------------------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | Rendering Index (Max) | Rendering Index (Nom) | Lumen Maintenance 10000 h (Nom) | Maintenance 20000 h | |
| 140979 | SON ALTO 250W LV E E39 CL SL/3 | 523 | 412 | - | 26 | - | - | 102 lm/W |
| 140953 | SON ALTO 100W LV E E39 CL SL/3 | 520 | 420 | - | 18 | - | - | 85 lm/W |
| 323865 | C1000S52/ED37 6PK | 517 | 423 | - | 21 | 90 % | - | 108 lm/W |
| 460824 | C100S54/M 3PK | 520 | 420 | - | 18 | 90 % | - | 84 lm/W |
| 467274 | C100S54/M PH 12PK | 520 | 420 | - | 18 | 90 % | - | 84 lm/W |
| 460816 | 70W BD17 HP SODIUM HID CLR | 522 | 425 | - | 13 | 70 % | - | 84 lm/W |
| 467282 | C70S62/M PH 12PK | 522 | 425 | - | 13 | 70 % | - | 84 lm/W |
| 460857 | C35S76/M 3PK | 537 | 420 | - | 7.5 | 93 % | 82 % | 59 lm/W |
| 467290 | C35S76/M 12PK | 537 | 420 | - | 7.5 | 93 % | 82 % | 59 lm/W |
| 460840 | C50S68/M 3PK | 540 | 415 | - | 12 | - | - | 71 lm/W |
| 467308 | C50S68/M 12pk | 540 | 415 | - | 12 | - | - | 71 lm/W |
| 460832 | C150S55/M 3PK | 514 | 424 | 25 | 17 | 75 % | - | 96 lm/W |
| 467316 | C150S55/M 12PK | 514 | 424 | - | 17 | 75 % | - | 96 lm/W |

Light Technical (2/2)

| Order Code | Full Product Name | Luminous Efficacy (rated) (Nom) | Luminous Design Mean Lumens | Luminous Flux (Rated) (Min) | Luminous Flux (Rated) (Nom) | Luminous Photosynthetic Photon Flux (PPF) | Order Code | Full Product Name | Luminous Efficacy (rated) (Nom) | Luminous Design Mean Lumens | Luminous Flux (Rated) (Min) | Luminous Flux (Rated) (Nom) | Luminous Photosynthetic Photon Flux (PPF) |
|------------|--------------------------------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|---|------------|-------------------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|---|
| | | (Nom) | (Lumens) | (Min) | (Nom) | (PPF) | | | (Nom) | (Lumens) | (Min) | (Nom) | (PPF) |
| 140979 | SON ALTO 250W LV E E39 CL SL/3 | 114 lm/W | 24300 lm | 25600 lm | 28500 lm | - | 323865 | C1000S52/ED37 6PK | 125 lm/W | 112000 lm | 108000 lm | 125000 lm | 1550 µmol/s |
| 140953 | SON ALTO 100W LV E E39 CL SL/3 | 94 lm/W | 8460 lm | 8500 lm | 9400 lm | - | 460824 | C100S54/M 3PK | 92 lm/W | 8550 lm | 8400 lm | 9200 lm | - |
| | | | | | | | 467274 | C100S54/M PH 12PK | 92 lm/W | 8550 lm | 8400 lm | 9200 lm | - |

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| Order Code | Full Product Name | Luminous Efficacy (rated) (Nom) | Design Mean Lumens | Luminous Flux (Rated) (Min) | Luminous Flux (Rated) (Nom) | Photosynthetic Photon Flux (PPF) |
|------------|----------------------------|---------------------------------|--------------------|-----------------------------|-----------------------------|----------------------------------|
| 460816 | 70W BD17 HP SODIUM HID CLR | 92 lm/W | 5850 lm | 5900 lm | 6500 lm | - |
| 467282 | C70S62/M PH 12PK | 92 lm/W | 5850 lm | 5900 lm | 6500 lm | - |
| 460857 | C35S76/M 3PK | 63 lm/W | 2025 lm | 2050 lm | 2250 lm | - |
| 467290 | C35S76/M 12PK | 63 lm/W | 2025 lm | 2050 lm | 2250 lm | - |

| Order Code | Full Product Name | Luminous Efficacy (rated) (Nom) | Design Mean Lumens | Luminous Flux (Rated) (Min) | Luminous Flux (Rated) (Nom) | Photosynthetic Photon Flux (PPF) |
|------------|-------------------|---------------------------------|--------------------|-----------------------------|-----------------------------|----------------------------------|
| 460840 | C50S68/M 3PK | 80 lm/W | 3600 lm | 3550 lm | 4000 lm | - |
| 467308 | C50S68/M 12pk | 80 lm/W | 3600 lm | 3550 lm | 4000 lm | - |
| 460832 | C150S55/M 3PK | 107 lm/W | 14400 lm | 14400 lm | 16000 lm | - |
| 467316 | C150S55/M 12PK | 107 lm/W | 14400 lm | 14400 lm | 16000 lm | - |

Mechanical and Housing

| Order Code | Full Product Name | Bulb Material | Bulb Shape |
|------------|--------------------------------|---------------|------------|
| 140979 | SON ALTO 250W LV E E39 CL SL/3 | Hard Glass | ED18 |
| 140953 | SON ALTO 100W LV E E39 CL SL/3 | Hard Glass | ED-23 1/2 |
| 323865 | C1000S52/ED37 6PK | Hard Glass | ED37 |
| 460824 | C100S54/M 3PK | Hard Glass | BD17 |
| 467274 | C100S54/M PH 12PK | Hard Glass | BD17 |
| 460816 | 70W BD17 HP SODIUM HID CLR | Soft Glass | BD17 |
| 467282 | C70S62/M PH 12PK | Soft Glass | BD17 |

| Order Code | Full Product Name | Bulb Material | Bulb Shape |
|------------|-------------------|---------------|------------|
| 460857 | C35S76/M 3PK | Hard Glass | BD17 |
| 467290 | C35S76/M 12PK | Hard Glass | BD17 |
| 460840 | C50S68/M 3PK | Hard Glass | BD17 |
| 467308 | C50S68/M 12pk | Hard Glass | BD17 |
| 460832 | C150S55/M 3PK | Hard Glass | BD17 |
| 467316 | C150S55/M 12PK | Hard Glass | BD17 |

