



Product Description

HPL-N

Standard High Pressure Mercury lamp

Benefits

- Good budget alternative

Features

- Equipped with one or two auxiliary electrodes to ensure quick and reliable ignition
- Single-ended gas-filled glass bulb (HG-SG) with a quartz mercury vapour discharge tube
- Internally coated ovoid outer bulb, providing a cool, bluish white light with reasonable color qualities

Application

- All outdoor applications, factories, transport sector and industrial area lighting

Warnings and Safety

- For use with control gear designed for high-pressure mercury lamps
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

HPL-N

Versions



HPL, E26/E27



HPL, E39/40



HPL, 100W, E39

Dimensional drawing

D

| Product | D (max) | C (max) |
|-----------------------------|---------|---------|
| HPL-N 125W/542 E27 1CT/24 | 76 mm | 173 mm |
| HPL-N 250W/542 E40 1SL/12 | 91 mm | 226 mm |
| HPL-N 400W/542 E40 1SL/6 | 122 mm | 290 mm |
| HPL-N 100W E39 HG 1SL/12 | 76 mm | 188 mm |
| HPL-N 400W/542 E40 HG 1SL/6 | 122 mm | 290 mm |
| HPL-N 400W/542 E40 HG 1SL | 122 mm | 290 mm |
| HPL-N 125W E27 SG 1CT/24 | 76 mm | 173 mm |
| HPL-N 80W/542 E27 1CT/24 | 71 mm | 155 mm |

Controls and Dimming

Dimmable No

General Information

LSF 2000 h Rated 99 %

Operating Position UNIVERSAL

Light Technical

Color Code 542

Color Designation Cool White (CW)

Mechanical and Housing

Bulb Finish Coated glass

Approval and Application

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Energy Efficiency Label (EEL) | Mercury (Hg) Content (Nom) |
|--------------|---------------------------|-------------------------------|-------------------------------|----------------------------|
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | 88 kWh | B | 14.0 mg |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | 137 kWh | B | 19.0 mg |

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Energy Efficiency Label (EEL) | Mercury (Hg) Content (Nom) |
|--------------|---------------------------|-------------------------------|-------------------------------|----------------------------|
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | 137 kWh | B | 19.0 mg |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | 275 kWh | B | 38 mg |

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Energy Efficiency Label (EEL) | Mercury (Hg) Content (Nom) |
|--------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 928053507488 | HPL-N 400W/542 E40 HG 1SL | 440 kWh | B | 72 mg |
| 928053507493 | HPL-N 400W/542 E40 1SL/6 | 440 kWh | B | 72 mg |

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Energy Efficiency Label (EEL) | Mercury (Hg) Content (Nom) |
|--------------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | 440 kWh | B | 72 mg |
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | - | - | 13.7 mg |

Operating and Electrical

| Order Code | Full Product Name | Lamp Current (EM) (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) | Power (Rated) (Nom) |
|--------------|-----------------------------|-------------------------|---------------|---------------|---------------|---------------------|
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | 0.8 A | 125 V | 105 V | 115 V | 80.0 W |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | 1.15 A | 135 V | 115 V | 125 V | 125.0 W |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | 1.15 A | 135 V | 115 V | 125 V | 125.0 W |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | 2.1 A | 145 V | 125 V | 135 V | 250.0 W |
| 928053507488 | HPL-N 400W/542 E40 HG 1SL | 3.25 A | 150 V | 130 V | 140 V | 400.0 W |
| 928053507493 | HPL-N 400W/542 E40 1SL/6 | 3.25 A | 150 V | 130 V | 140 V | 400.0 W |
| 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | 3.25 A | 150 V | 130 V | 140 V | 400.0 W |
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | 0.85 A | 140 V | 120 V | 130 V | 100.0 W |

General Information (1/2)

| Order Code | Full Product Name | Cap-Base | Life To 20% Failures (Nom) | Life To 50% Failures (Nom) | Life To 5% Failures (Nom) | LSF 12000 h Rated | LSF 16000 h Rated | LSF 20000 h Rated |
|--------------|-----------------------------|----------|-------------------------------|-------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | E27 | 12000 h | 20000 h | 6000 h | 80 % | 68 % | 50 % |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | E27 | 12000 h | 20000 h | 6000 h | 80 % | 68 % | 50 % |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | E27 | 10000 h | 16000 h | 6000 h | 80 % | 68 % | 50 % |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | E40 | 10000 h | 15000 h | 5000 h | 65 % | 45 % | 28 % |
| 928053507488 | HPL-N 400W/542 E40 HG 1SL | E40 | 12000 h | 16000 h | 6000 h | 65 % | 45 % | 28 % |
| 928053507493 | HPL-N 400W/542 E40 1SL/6 | E40 | 10000 h | 15000 h | 5000 h | 65 % | 45 % | 28 % |
| 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | E40 | 12000 h | 16000 h | 6000 h | 65 % | 45 % | 28 % |
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | E39 | 10000 h | 15000 h | 5000 h | 65 % | 45 % | - |

General Information (2/2)

| Order Code | Full Product Name | LSF 4000 h Rated | LSF 6000 h Rated | LSF 8000 h Rated |
|--------------|------------------------------|---------------------|---------------------|---------------------|
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | 98 % | 95 % | 92 % |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | 98 % | 95 % | 92 % |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | 98 % | 95 % | 92 % |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | 97 % | 92 % | 83 % |

| Order Code | Full Product Name | LSF 4000 h Rated | LSF 6000 h Rated | LSF 8000 h Rated |
|--------------|--------------------------------|---------------------|---------------------|---------------------|
| 928053507488 | HPL-N 400W/542 E40 HG 1SL | 97 % | 92 % | 83 % |
| 928053507493 | HPL-N 400W/542 E40 1SL/6 | 97 % | 92 % | 83 % |
| 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | 97 % | 92 % | 83 % |
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | 97 % | 94 % | 92 % |

Luminaire Design Requirements

| Order Code | Full Product Name | Bulb Temperature (Max) |
|--------------|---------------------------|------------------------|
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | 350 °C |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | 350 °C |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | 350 °C |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | 350 °C |

| Order Code | Full Product Name | Bulb Temperature (Max) |
|--------------|-----------------------------|------------------------|
| 928053507488 | HPL-N 400W/542 E40 HG 1SL | 350 °C |
| 928053507493 | HPL-N 400W/542 E40 1SL/6 | 350 °C |
| 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | 350 °C |
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | 400 °C |

Light Technical (1/3)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Correlated Color Temperature (Nom) | Color | LLMF 12000 h Rated | LLMF 16000 h Rated | LLMF 2000 h Rated |
|--------------|-----------------------------|--------------------|--------------------|------------------------------------|-----------------------|--------------------|--------------------|-------------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | | Rendering Index (Nom) | | | |
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | 370 | 366 | 4300 K | 45 | 85 % | 80 % | 92 % |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | 374 | 373 | 4100 K | 46 | 85 % | 80 % | 92 % |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | 374 | 373 | 4200 K | 46 | 85 % | 80 % | 92 % |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | 381 | 383 | 4100 K | 40 | 78 % | 75 % | 88 % |
| 928053507488 | HPL-N 400W/542 E40 HG 1SL | 384 | 384 | 4200 K | 50 | 78 % | 75 % | 88 % |
| 928053507493 | HPL-N 400W/542 E40 1SL/6 | 384 | 384 | 3900 K | 40 | 78 % | 75 % | 88 % |
| 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | 384 | 384 | 4200 K | 50 | 78 % | 75 % | 88 % |
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | 370 | 370 | 3950 K | - | 72 % | 70 % | 88 % |

Light Technical (2/3)

| Order Code | Full Product Name | LLMF | LLMF | LLMF | LLMF | Lumen | Lumen | Lumen | Lumen | Lumen |
|--------------|-----------------------------|---------------|--------------|--------------|--------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| | | 20000 h Rated | 4000 h Rated | 6000 h Rated | 8000 h Rated | Maintenance 10000 h (Min) | Maintenance 10000 h (Nom) | Maintenance 2000 h (Min) | Maintenance 2000 h (Nom) | Maintenance 5000 h (Min) |
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | 76 % | 91 % | 89 % | 88 % | - | - | 82 % | 92 % | 80 % |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | 76 % | 91 % | 89 % | 88 % | - | - | 82 % | 92 % | 80 % |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | 76 % | 91 % | 89 % | 88 % | - | - | 82 % | 92 % | 80 % |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | 72 % | 86 % | 84 % | 82 % | - | - | 78 % | 88 % | 75 % |
| 928053507488 | HPL-N 400W/542 E40 HG 1SL | 72 % | 86 % | 84 % | 82 % | - | - | 78 % | 88 % | 75 % |
| 928053507493 | HPL-N 400W/542 E40 1SL/6 | 72 % | 86 % | 84 % | 82 % | - | - | 78 % | 88 % | 75 % |
| 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | 72 % | 86 % | 84 % | 82 % | - | - | 78 % | 88 % | 75 % |
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | 68 % | 86 % | 82 % | 78 % | 65 % | 75 % | 80 % | 88 % | 75 % |

Light Technical (3/3)

| Order Code | Full Product Name | Lumen | Luminous | Luminous | Luminous | Order Code | Full Product Name | Lumen | Luminous | Luminous | Luminous |
|--------------|---------------------------|--------------------------|------------------------|--------------------|--------------------|--------------|-----------------------------|--------------------------|------------------------|--------------------|--------------------|
| | | Maintenance 5000 h (Nom) | Efficacy (rated) (Nom) | Flux (Rated) (Min) | Flux (Rated) (Nom) | | | Maintenance 5000 h (Nom) | Efficacy (rated) (Nom) | Flux (Rated) (Min) | Flux (Rated) (Nom) |
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | 90 % | 44.5 lm/W | - | 3600 lm | 928053507488 | HPL-N 400W/542 E40 HG 1SL | 85 % | 55 lm/W | - | 22000 lm |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | 90 % | 50 lm/W | - | 6200 lm | 928053507493 | HPL-N 400W/542 E40 1SL/6 | 85 % | 55 lm/W | - | 22000 lm |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | 90 % | 50 lm/W | - | 6200 lm | 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | 85 % | 55 lm/W | - | 22000 lm |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | 85 % | 51 lm/W | - | 12700 lm | | | | | | |

HPL-N

| Order Code | Full Product Name | Lumen Maintenance 5000 h (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Rated) (Min) | Luminous Flux (Rated) (Nom) |
|--------------|--------------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| 928485500091 | HPL-N 100W E39 HG 1SL/12 | 85 % | 42 lm/W | 3800 lm | 4200 lm |

Mechanical and Housing

| Order Code | Full Product Name | Bulb Material | Bulb Shape | Order Code | Full Product Name | Bulb Material | Bulb Shape |
|--------------|---------------------------|---------------|------------|--------------|-----------------------------|---------------|------------|
| 928051007391 | HPL-N 80W/542 E27 1CT/24 | Soft Glass | BF70 | 928053507488 | HPL-N 400W/542 E40 HG 1SL | Hard Glass | ED120 |
| 928052007391 | HPL-N 125W/542 E27 1CT/24 | Soft Glass | E75 | 928053507493 | HPL-N 400W/542 E40 1SL/6 | Hard Glass | ED120 |
| 928052007399 | HPL-N 125W E27 SG 1CT/24 | Soft Glass | E75 | 928053507496 | HPL-N 400W/542 E40 HG 1SL/6 | Hard Glass | ED120 |
| 928053007492 | HPL-N 250W/542 E40 1SL/12 | Hard Glass | ED90 | 928485500091 | HPL-N 100W E39 HG 1SL/12 | Hard Glass | ED75 |

Color Rendering Diagrams



LDCR_HPL_0002-Colour rendering diagram

