



Product Description

MASTER HPI Plus

Quartz metal halide lamps with opalized outer bulb

Benefits

- High safety and comfort level, maintained over life
- Minimal maintenance cost
- Initial investment saving options with "Plus"-concept and "S" and "P"-types
- Adjustable atmosphere creation by using appropriate colour temperature

Features

- Ovoid, internally white coated outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Available in cool white and daylight colour appearance demonstrating good colour stability
- "S"-type for direct retrofit for HPL lamps
- "P"-type for use without protective front shield

Application

- High bay lighting, e.g. industrial workshops, exhibition halls, hypermarkets, shopping malls, DIY stores, churches, airports and train stations

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- For use with control gear designed for high-pressure mercury or sodium 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.

MASTER HPI Plus

Controls and dimming

| | |
|----------|----|
| Dimmable | No |
|----------|----|

General information

| | |
|----------------------------|---------|
| Cap-Base | E40 |
| Life To 10% Failures (Nom) | 7500 h |
| Life To 20% Failures (Nom) | 11000 h |
| Life To 50% Failures (Nom) | 20000 h |
| Life To 5% Failures (Nom) | 5000 h |
| LSF 12000 h Rated | 76 % |
| LSF 16000 h Rated | 63 % |
| LSF 2000 h Rated | 99 % |
| LSF 20000 h Rated | 50 % |
| LSF 4000 h Rated | 96 % |
| LSF 6000 h Rated | 93 % |
| LSF 8000 h Rated | 88 % |
| Operating Position | H15 |
| System Description | Base-Up |

Luminaire design requirements

| | |
|------------------------|--------|
| Bulb Temperature (Max) | 350 °C |
|------------------------|--------|

Light technical

| | |
|-------------------------------------|-----------------|
| Colour Code | 645 |
| Colour Designation | Cool White (CW) |
| Correlated Colour Temperature (Nom) | 4500 K |
| Colour Rendering Index (Nom) | 65 |
| LLMF 12000 h Rated | 68 % |
| LLMF 16000 h Rated | 63 % |
| LLMF 2000 h Rated | 90 % |
| LLMF 20000 h Rated | 60 % |
| LLMF 4000 h Rated | 82 % |
| LLMF 6000 h Rated | 77 % |
| LLMF 8000 h Rated | 73 % |
| Ratio Scotopic/Photopic Lumens | 1.50 |

Mechanical and housing

| | |
|-------------|--------------|
| Bulb Finish | Coated glass |
|-------------|--------------|

Approval and application

| Order Code | Full Product Name | Energy Consumption kWh/ | Mercury (Hg) |
|--------------|---|-------------------------|---------------|
| | | 1000 h | Content (Nom) |
| 928074309891 | MASTER HPI Plus 400W/645 BU E40 1SL/6 | 446 kWh | 67 mg |
| 928076709891 | MASTER HPI Plus 250W/645 BU E40 1SL/12 | 282 kWh | 47 mg |

Operating and electrical (1/2)

| Order Code | Full Product Name | Lamp | | | |
|--------------|--|-----------------------|------------------|------------------|------------------|
| | | Current (EM) (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) |
| 928074309891 | MASTER HPI Plus 400W/645 BU E40 1SL/6 | 3.4 A | 135 V | 115 V | 125 V |

| Order Code | Full Product Name | Lamp | | | |
|--------------|---|-----------------------|------------------|------------------|------------------|
| | | Current (EM) (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) |
| 928076709891 | MASTER HPI Plus 250W/645 BU E40 1SL/12 | 2.2 A | 138 V | 118 V | 128 V |

Operating and electrical (2/2)

| Order Code | Full Product Name | Power (Nom) |
|--------------|---------------------------------------|-------------|
| 928074309891 | MASTER HPI Plus 400W/645 BU E40 1SL/6 | 405 W |

| Order Code | Full Product Name | Power (Nom) |
|--------------|--|-------------|
| 928076709891 | MASTER HPI Plus 250W/645 BU E40 1SL/12 | 256 W |

MASTER HPI Plus

Light technical (1/2)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Luminous | Luminous |
|--------------|---------------------------------------|--------------------|--------------------|------------------------|--------------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | Efficacy (rated) (Nom) | Flux (Rated) (Min) |
| 928074309891 | MASTER HPI Plus 400W/645 BU E40 1SL/6 | 367 | 374 | 80 lm/W | - |
| 928076709891 | MASTER HPI Plus | 365 | 363 | 66 lm/W | 15300 lm |

| Order Code | Full Product Name | Chromaticity | Chromaticity | Luminous | Luminous |
|------------|------------------------|--------------------|--------------------|------------------------|--------------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | Efficacy (rated) (Nom) | Flux (Rated) (Min) |
| | 250W/645 BU E40 1SL/12 | | | | |

Light technical (2/2)

| Order Code | Full Product Name | Luminous Flux (Rated) (Nom) |
|--------------|---------------------------------------|-----------------------------|
| 928074309891 | MASTER HPI Plus 400W/645 BU E40 1SL/6 | 32500 lm |

| Order Code | Full Product Name | Luminous Flux (Rated) (Nom) |
|--------------|--|-----------------------------|
| 928076709891 | MASTER HPI Plus 250W/645 BU E40 1SL/12 | 17000 lm |

Mechanical and housing

| Order Code | Full Product Name | Bulb Shape |
|--------------|---------------------------------------|------------|
| 928074309891 | MASTER HPI Plus 400W/645 BU E40 1SL/6 | BD120 |

| Order Code | Full Product Name | Bulb Shape |
|--------------|--|------------|
| 928076709891 | MASTER HPI Plus 250W/645 BU E40 1SL/12 | BD90 |

