



MASTER HPI Plus

MASTER HPI Plus 250W/645 BU-P E40 1SL/12

Quartz metal halide lamps with opalized outer bulb

Product data

| General Information | |
|------------------------------------|---------------------------------------|
| Cap-Base | E40 [E40] |
| Operating Position | H15 [Hanging +/-15D or Base Up (BU)] |
| Life to 5% Failures (Nom) | 5000 h |
| Life To 10% Failures (Nom) | 7500 h |
| Life to 20% Failures (Nom) | 11000 h |
| Life to 50% Failures (Nom) | 20000 h |
| System Description | Base-Up/Protected |
| LSF 2000 h Rated | 99 % |
| LSF 4000 h Rated | 96 % |
| LSF 6000 h Rated | 93 % |
| LSF 8000 h Rated | 88 % |
| LSF 12000 h Rated | 76 % |
| LSF 16000 h Rated | 63 % |
| LSF 20000 h Rated | 50 % |
| Light Technical | |
| Color Code | 645 [CCT of 4500K] |
| Luminous Flux (Rated) (Nom) | 18000 lm |
| Color Designation | Cool White (CW) |
| Chromaticity Coordinate X (Nom) | 365 |
| Chromaticity Coordinate Y (Nom) | 363 |
| Correlated Color Temperature (Nom) | 4500 K |
| Luminous Efficacy (rated) (Nom) | 72 lm/W |
| Color Rendering Index (Nom) | 65 |
| LLMF 2000 h Rated | 90 % |

| | |
|--------------------------------|------|
| LLMF 4000 h Rated | 82 % |
| LLMF 6000 h Rated | 77 % |
| LLMF 8000 h Rated | 73 % |
| LLMF 12000 h Rated | 68 % |
| LLMF 16000 h Rated | 63 % |
| LLMF 20000 h Rated | 60 % |
| Ratio Scotopic/Photopic Lumens | 1.50 |

| Operating and Electrical | |
|-------------------------------|---------|
| Power (Rated) (Nom) | 253.0 W |
| Lamp Current Run-Up (Max) | 3.9 A |
| Lamp Current (EM) (Nom) | 2.2 A |
| Ignition Supply Voltage (Max) | 198 V |
| Ignition Peak Voltage (Max) | 5000 V |
| Ignition Supply Voltage (Min) | 198 V |
| Ignition Time (Max) | 10 s |
| Voltage (Max) | 138 V |
| Voltage (Min) | 118 V |
| Voltage (Nom) | 128 V |

| Controls and Dimming | |
|----------------------|----|
| Dimmable | No |

| Mechanical and Housing | |
|------------------------|--------------|
| Bulb Finish | Coated glass |

MASTER HPI Plus

Approval and Application

| | |
|-------------------------------|---------|
| Energy Efficiency Label (EEL) | A |
| Mercury (Hg) Content (Nom) | 46.5 mg |
| Energy Consumption kWh/1000 h | 278 kWh |

Luminaire Design Requirements

| | |
|----------------------------|--------|
| Bulb Temperature (Max) | 260 °C |
| Cap-Base Temperature (Max) | 250 °C |

Product Data

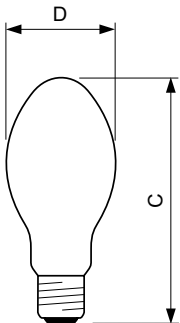
| | |
|-------------------|-----------------|
| Full product code | 871150021147715 |
|-------------------|-----------------|

| | |
|---------------------------------|--|
| Order product name | MASTER HPI Plus 250W/645 BU-P E40 1SL/12 |
| EAN/UPC - Product | 8711500211477 |
| Order code | 928410800027 |
| Numerator - Quantity Per Pack | 1 |
| Numerator - Packs per outer box | 12 |
| Material Nr. (12NC) | 928410800027 |
| Net Weight (Piece) | 220.000 g |
| ILCOS Code | ME/S-250/45/2A-H-E40-/V |

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.

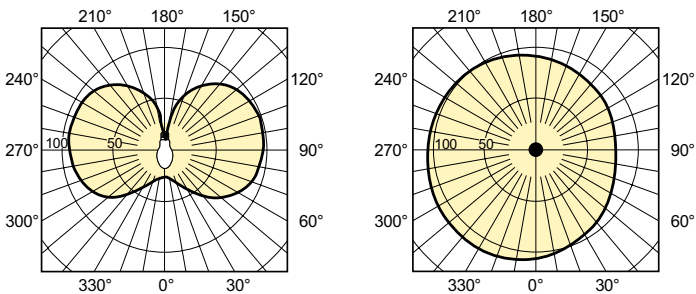
Dimensional drawing



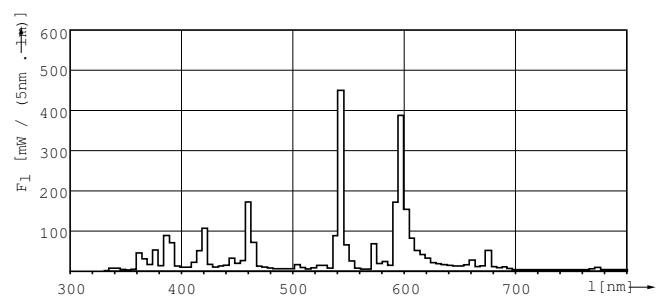
HPI Plus 250W/645 BU-P E40

| Product | D (max) | C (max) |
|--|---------|---------|
| MASTER HPI Plus 250W/645 BU-P E40 1SL/12 | 91 mm | 226 mm |

Photometric data



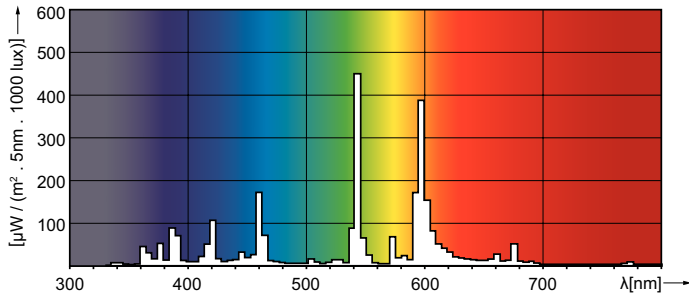
HPI



HPI Plus 250W & 400W

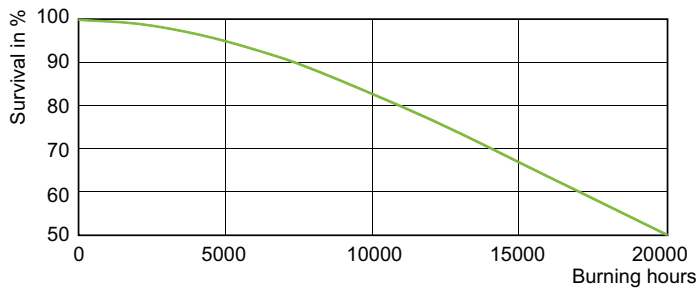
MASTER HPI Plus

Photometric data

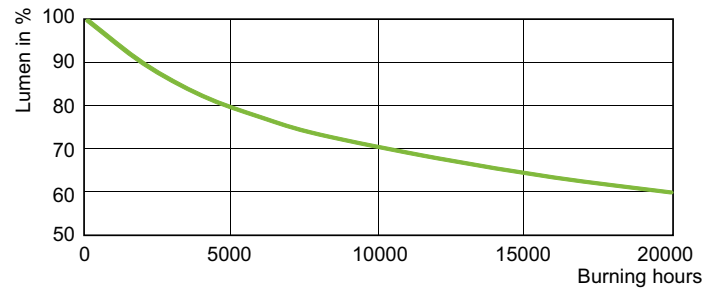


HPI Plus 250W & 400W

Lifetime



HPI 250 W, 400 W Life Expectancy



HPI 250 W, 400 W Lumen Maintenance

