



# MASTER HPI Plus

MASTER HPI Plus 250W/745 BU-P E40 1SL

Quartz metal halide lamps with opalized outer bulb

## Product data

### • Product Data

|                             |  |
|-----------------------------|--|
| Order code                  | 211477 15                                |
| Full product code           | 871150021147715                          |
| Full product name           | MASTER HPI Plus 250W/745 BU-P E40 1SL    |
| Order product name          | MASTER HPI Plus 250W/745 BU-P E40 1SL/12 |
| Pieces per pack             | 1  |
| Packing configuration       | 12                                       |
| Packs per outerbox          | 12                                       |
| Bar code on pack - EAN1     | 8711500211477                            |
| Bar code on outerbox - EAN3 | 8711500211484                            |
| Logistic code(s) - 12NC     | 928410800027                             |
| ILCOS code                  | ME/S-250/45/2A-H-E40-/V                  |
| Net weight per piece        | 0.220 kg                                 |

### • General Characteristics

|                               |                                      |
|-------------------------------|--------------------------------------|
| System Description            | Base-Up/Protected                    |
| Cap-Base                      | GES [GES]                            |
| Bulb                          | ED-28                                |
| Bulb Finish                   | Coated                               |
| Burning Position              | h15 [Hanging +/-15D or Base Up (BU)] |
| Life to 5% failures           | 5000 hr                              |
| Life to 10% failures          | 7500 hr                              |
| Life to 20% failures          | 11000 hr                             |
| Life to 50% failures          | 20000 hr                             |
| LSF EM 12000h Rated,12h cycle | 76 %                                 |
| LSF EM 16000h Rated,12h cycle | 63 %                                 |
| LSF EM 20000h Rated,12h cycle | 50 %                                 |

|                               |      |
|-------------------------------|------|
| LSF EM 2000h Rated, 12h cycle | 99 % |
| LSF EM 4000h Rated, 12h cycle | 96 % |
| LSF EM 6000h Rated, 12h cycle | 93 % |
| LSF EM 8000h Rated, 12h cycle | 88 % |

### • Electrical Characteristics

|                               |       |
|-------------------------------|-------|
| Lamp Wattage                  | 250 W |
| Lamp Voltage                  | 128 V |
| Lamp Current EM               | 2.2 A |
| Dimmable                      | no    |
| Lamp Wattage EM 25°C, Rated   | 253 W |
| Lamp Wattage EM 25°C, Nominal | 250 W |

### • Environmental Characteristics

|                      |       |
|----------------------|-------|
| Mercury (Hg) Content | 47 mg |
|----------------------|-------|

### • Light Technical Characteristics

|  |                    |
|--|--------------------|
| Colour Code                                  | 745 [CCT of 4500K] |
| Colour Rendering Index                       | 69 Ra8             |
| Colour Designation                           | Cool White         |
| Colour Temperature Technical                 | 4500 K             |
| Colour Temperature Chromaticity Coordinate X | 4380 K             |
| Chromaticity Coordinate Y                    | 365 -              |

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# MASTER HPI Plus

|                            |         |
|----------------------------|---------|
| Chromaticity Coordinate Y  | 363 -   |
| Lum Efficacy Rated EM 25°C | 72 Lm/W |
| LLMF EM 20000h Rated       | 60 %    |
| LLMF EM 16000h Rated       | 63 %    |
| LLMF EM 12000h Rated       | 68 %    |
| LLMF EM 8000h Rated        | 73 %    |
| LLMF EM 6000h Rated        | 77 %    |
| LLMF EM 4000h Rated        | 82 %    |

|                              |          |
|------------------------------|----------|
| LLMF EM 2000h Rated          | 90 %     |
| Luminous Flux EM 25°C, Rated | 18000 Lm |

### • Product Dimensions

|                  |        |
|------------------|--------|
| Overall Length C | 226 mm |
| Diameter D       | 91 mm  |

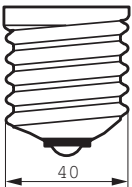
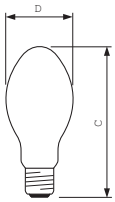
### • Luminaire Design Requirements

|                      |       |
|----------------------|-------|
| Cap-Base Temperature | 250 C |
| Bulb Temperature     | 260 C |

## Warnings and Safety

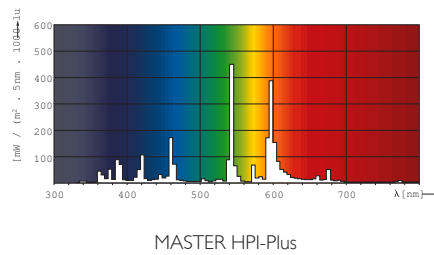
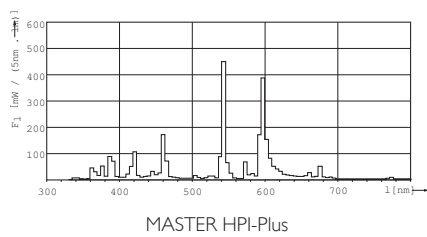
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- For use with control gear designed for high-pressure mercury or sodium lamps

## Dimensional drawing



| Product                    | C (Max) | D (Max) |
|----------------------------|---------|---------|
| HPI Plus 250W/745 BU-P E40 | 218     | 90      |

## Photometric data



Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 – Ecodesign requirements, applicable from 13 April 2010.

### 1.3 Product information requirements on lamps

- Nominal and rated lamp wattage;
- Nominal and rated lamp luminous flux;
- Rated lamp efficacy at 100 h in standard conditions.
- Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
- Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
- Lamp mercury content as XX mg;
- Colour Rendering Index (Ra) of the lamp;
- Colour temperature of the lamp;
- Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room temperatures;

For more information see <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:076:0017:0044:EN:PDF>



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2011, April 11  
data subject to change