

# PHILIPS

## Lighting



# MASTER HPI-T Plus

## MASTER HPI-T Plus 400W/645 E40 1SL/12

Quartz metal halide lamps with clear outer bulb

### 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.

### Product data

| General Information         |                                             |
|-----------------------------|---------------------------------------------|
| Cap base                    | E40 [ E40]                                  |
| Burning Position            | P20 [ Parallel +/-20D or Horizontal(HOR)]   |
| 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          | Horizontal [ Horizontal Operating Position] |

| Light Technical                       |                       |
|---------------------------------------|-----------------------|
| Colour Code                           | 645 [ CCT of 4,500 K] |
| Lamp Luminous Flux (Min)              | 30000 lm              |
| Lamp Luminous Flux (Nom)              | 32000 lm              |
| Colour Designation                    | Cool White (CW)       |
| Lumen maintenance 10,000 hours (nom.) | 70 %                  |
| Lumen maintenance 2,000 hours (min.)  | 75 %                  |
| Lumen maintenance 2,000 hours (nom.)  | 90 %                  |
| Lumen maintenance 20,000 hours        | 60 %                  |

|                                      |         |
|--------------------------------------|---------|
| Lumen maintenance 5,000 hours (min.) | 65 %    |
| Lumen maintenance 5,000 hours (nom.) | 80 %    |
| Chromaticity coordinate X (nom.)     | 361     |
| Chromaticity coordinate Y (nom.)     | 372     |
| Colour Temperature, horizontal (Nom) | 4500 K  |
| Lamp Luminous Efficacy EM (Nom)      | 83 lm/W |
| Colour Rendering Index,horiz (Nom)   | 65      |

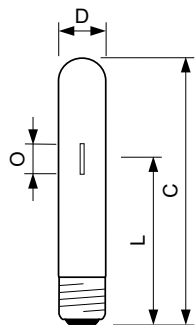
| Operating and Electrical       |       |
|--------------------------------|-------|
| Power (Rated) (Nom)            | 385 W |
| Lamp current run-up (max.)     | 6 A   |
| Lamp current (EM) (nom.)       | 3.4 A |
| Ignition supply voltage (max.) | 198 V |
| Ignition supply voltage (min.) | 198 V |
| Ignition time (max.)           | 10 s  |
| Voltage (Max)                  | 135 V |
| Voltage (Min)                  | 115 V |

# MASTER HPI-T Plus

|                                      |         |
|--------------------------------------|---------|
| Voltage (Nom)                        | 125 V   |
| <b>Controls and Dimming</b>          |         |
| Dimmable                             | No      |
| <b>Mechanical and Housing</b>        |         |
| Lamp Finish                          | Clear   |
| <b>Approval and Application</b>      |         |
| Energy efficiency label (EEL)        | A       |
| Mercury (Hg) content (nom.)          | 29.5 mg |
| Energy consumption kWh/1,000 hours   | 424 kWh |
| <b>Luminaire Design Requirements</b> |         |
| Bulb temperature (max.)              | 600 °C  |

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Cap-base temperature (max.)       | 250 °C                                |
| <b>Product Data</b>               |                                       |
| Full product code                 | 871150017990615                       |
| Order product name                | MASTER HPI-T Plus 400W/645 E40 1SL/12 |
| EAN/UPC – product                 | 8711500179906                         |
| Order code                        | 928481600096                          |
| Local order code                  | HPIT400WGES                           |
| SAP numerator – quantity per pack | 1                                     |
| Numerator – packs per outer box   | 12                                    |
| Material no. (12 NC)              | 928481600096                          |
| Net Weight (Piece)                | 0.153 kg                              |

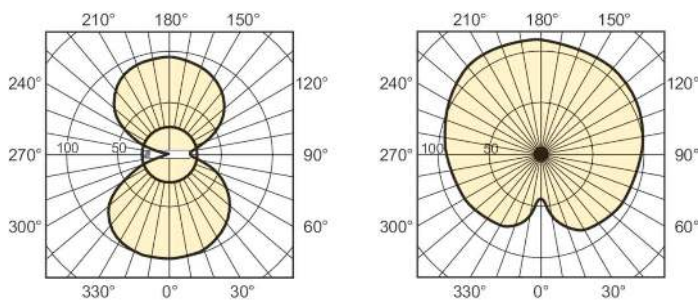
## Dimensional drawing



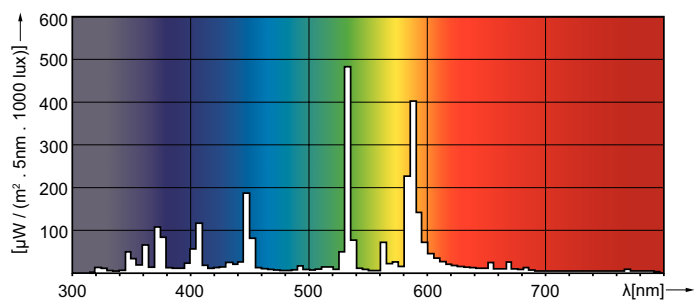
HPI-T Plus 400W/645 E40

| Product                               | D (max) | O       | L      | C (max) |
|---------------------------------------|---------|---------|--------|---------|
| MASTER HPI-T Plus 400W/645 E40 1SL/12 | 47 mm   | 30.5 mm | 168 mm | 286 mm  |

## Photometric data



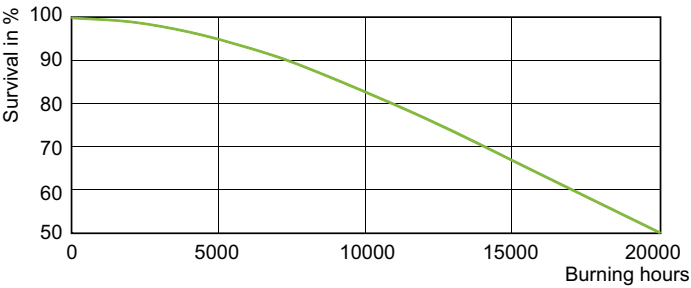
LDLD\_HPI-T-Light distribution diagram



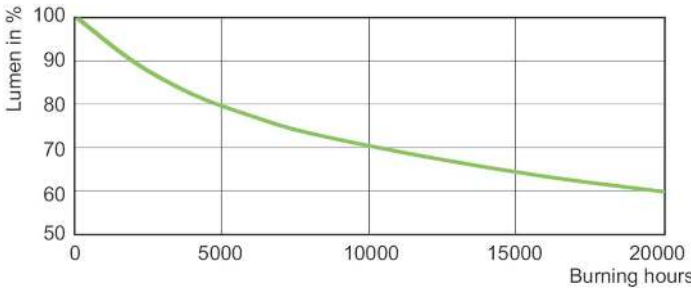
LDPO\_HPI-T\_Plus\_250W\_400W-Spectral power distribution Colour

MASTER HPI-T Plus

Lifetime



LDLE\_HPI-T\_0001-Life expectancy diagram



LDLM\_HPI-T\_0001-Lumen maintenance diagram

