



# MASTER HPI-T Plus

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

Quartz metal halide lamps with clear outer bulb

## Product data

### • General Characteristics

System Description	na [-]
Cap-Base	E40
Bulb	T46 [T 46mm]
Bulb Finish	Clear
Operating Position	p20 [Parallel +/-20D or Horizontal(HOR)]
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	76 %
Rated,12h cycle	
LSF EM 16000h	63 %
Rated,12h cycle	
LSF EM 20000h	50 %
Rated,12h cycle	
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	400 W
Lamp Voltage	125 V
Lamp Current EM	3.4 A
Dimmable	No
Lamp Wattage EM 25°C, Rated	382 W
Lamp Wattage EM 25°C, Nominal	400 W

### • Environmental Characteristics

Mercury (Hg) Content	27 mg
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### • Light Technical Characteristics

Color Code	645 [CCT of 4500K]
Color Rendering Index	65 Ra8
Color Designation (text)	Cool White
Color Temperature Technical	4500 K
Chromaticity Coordinate X	361 -
Chromaticity Coordinate Y	372 -
Lum Efficacy Rated EM 25°C	84 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 %

# PHILIPS

sense and simplicity

# MASTER HPI-T Plus

Luminous Flux EM 32000 Lm  
25°C, Rated

## • Product Dimensions

Overall Length C 286 (max) mm  
Diameter D 47 (max) mm  
Light Center Length L 172 mm  
Arc Length O 40 mm

## • Luminaire Design Requirements

Cap-Base Temperature 250 (max) C  
Bulb Temperature 600 (max) C

## • Product Data

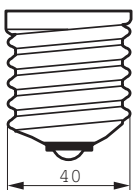
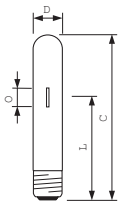
Order code 928073709230

Full product code 928073709230  
Full product name MASTER HPI-T Plus 400W/645 E40 1SL  
Order product name MASTER HPI-T Plus 400W/645 E40 1SL/12  
Pieces per pack 1  
Packing configuration 12  
Packs per outerbox 12  
Bar code on pack - EAN1 8711500179906  
Bar code on outerbox - EAN3 8711500182999  
Logistic code(s) - 12NC 928073709230  
ILCOS code MT-400/45/2B-H-E40-/H  
Net weight per piece 0.180 kg

## Warnings and Safety

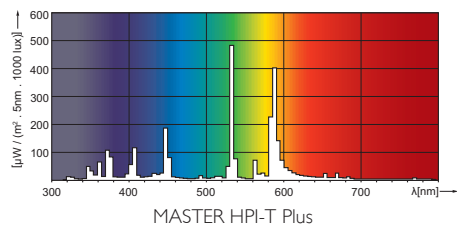
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- For use with control gear designed for high-pressure mercury or sodium lamps

## Dimensional drawing



Product	C (Max)	D (Max)	L (Norm)	O (Norm)
HPI-T Plus 400W/645 E40	286	46.5	180	40

## 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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data subject to change