



# 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

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Voltage (Nom)	125 V
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## Controls and Dimming

Dimmable	No
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## Mechanical and Housing

Lamp Finish	Clear
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## Approval and Application

Energy efficiency label (EEL)	A
Mercury (Hg) content (nom.)	29.5 mg
Energy consumption kWh/1,000 hours	424 kWh

## Luminaire Design Requirements

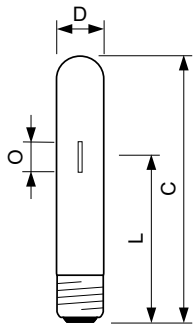
Bulb temperature (max.)	600 °C
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Cap-base temperature (max.)	250 °C
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## Product Data

Full product code	871150017990615
Order product name	MASTER HPI-T Plus 400W/645 E40 1SL/12
EAN/UPC – product	8711500179906
Order code	928481600096
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
Material no. (12 NC)	928481600096
SAP net weight (piece)	0.153 kg

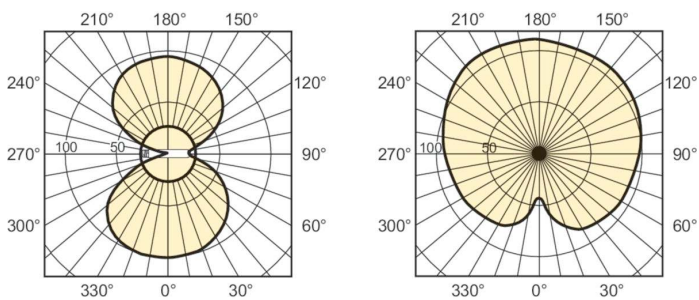
## Dimensional drawing



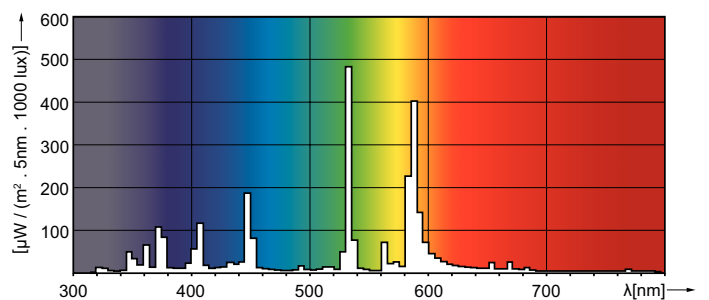
HPI-T Plus 400W/645 E40

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



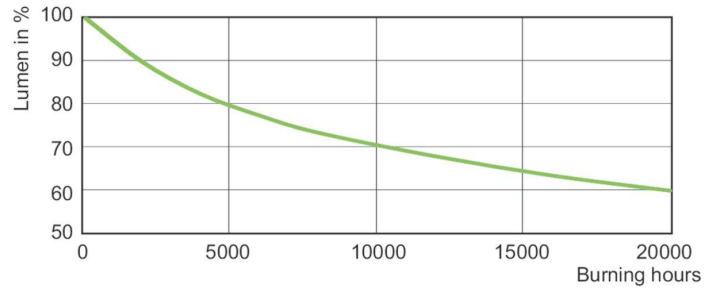
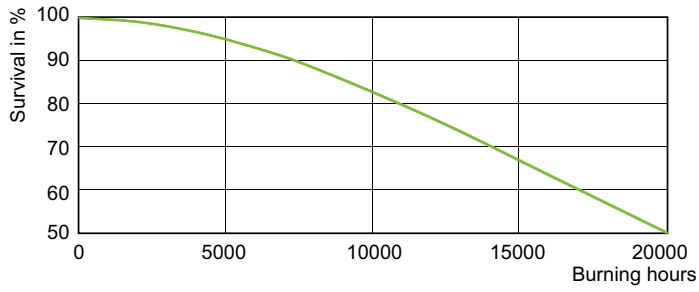
LDLD\_HPI-T-Light distribution diagram



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

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## Lifetime



LDLE\_HPI-T\_0001-Life expectancy diagram

LDLM\_HPI-T\_0001-Lumen maintenance diagram

