

PHILIPS

Lighting



MASTER HPI-T Plus

MASTER HPI-T Plus 450W/645 E40 1SL/12

Quartz metal halide lamps with clear outer bulb

Product data

General Information	
Cap-Base	E40 [E40]
Bulb Shape	T46 [T 46mm]
Operating 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 Operating Position

Light Technical	
Color Code	645 [CCT of 4500K]
Luminous Flux (Rated) (Min)	30000 lm
Luminous Flux (Rated) (Nom)	32000 lm
Color Designation	Cool White (CW)
Lumen Maintenance 10000 h (Nom)	70 %
Lumen Maintenance 2000 h (Min)	75 %
Lumen Maintenance 2000 h (Nom)	90 %
Lumen Maintenance 20000 h	60 %
Lumen Maintenance 5000 h (Min)	65 %
Lumen Maintenance 5000 h (Nom)	80 %
Chromaticity Coordinate X (Nom)	361
Chromaticity Coordinate Y (Nom)	372
Correlated Color Temperature (Nom)	4500 K
Luminous Efficacy (rated) (Nom)	84 lm/W

Operating and Electrical	
Color Rendering Index (Nom)	65
Power (Rated) (Nom)	440 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
Voltage (Nom)	125 V

Controls and Dimming	
Dimmable	No

Mechanical and Housing	
Bulb Finish	Clear

Approval and Application	
Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	29.5 mg
Energy Consumption kWh/1000 h	484 kWh

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Luminaire Design Requirements

Bulb Temperature (Max)	600 °C
Cap-Base Temperature (Max)	250 °C

Product Data

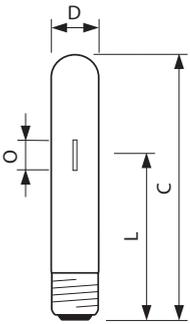
Full product code	871869673653100
Order product name	MASTER HPI-T Plus 450W/645 E40 1SL/12
EAN/UPC - Product	8718696736531

Order code	928481600097
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928481600097
Net Weight (Piece)	0.153 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
- 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



Product	D	O	L	C
MASTER HPI-T Plus 450W/645 E40 1SL/12	47 mm	30.5 mm	168 mm	286 mm

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