



MASTER HPI-T Plus

MASTER HPI-T Plus 250W/645 E40 1SL

Quartz metal halide lamps with clear outer bulb

Product data

General Information	
Cap-Base	E40 [E40]
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	-
LSF 2000 h Rated	99 %
LSF 4000 h Rated	96 %
LSF 6000 h Rated	93 %
LSF 8000 h Rated	88 %
LSF 12000 h Rated	76 %
LSF 16000 h Rated	63 %
LSF 20000 h Rated	50 %
Light Technical	
Color Code	645 [CCT of 4500K]
Luminous Flux (Rated) (Nom)	20500 lm
Color Designation	Cool White (CW)
Chromaticity Coordinate X (Nom)	365
Chromaticity Coordinate Y (Nom)	377
Correlated Color Temperature (Nom)	4500 K
Luminous Efficacy (Rated) (Nom)	84 lm/W
Color Rendering Index (Nom)	65

LLMF 2000 h Rated	90 %
LLMF 4000 h Rated	82 %
LLMF 6000 h Rated	77 %
LLMF 8000 h Rated	73 %
LLMF 12000 h Rated	68 %
LLMF 16000 h Rated	63 %
LLMF 20000 h Rated	60 %
Ratio Scotopic/Photopic Lumens	1.50

Operating and Electrical	
Power (Rated) (Nom)	245.0 W
Lamp Current Run-Up (Max)	3.9 A
Lamp Current (EM) (Nom)	2.10 A
Ignition Peak Voltage (Max)	5000 V
Ignition Supply Voltage (Min)	198 V
Ignition Time (Max)	30 s
Voltage (Max)	138 V
Voltage (Min)	118 V
Voltage (Nom)	128 V

Controls and Dimming	
Dimmable	No

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Mechanical and Housing

Bulb Finish	Clear
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Approval and Application

Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	33 mg
Energy Consumption kWh/1000 h	269 kWh

Luminaire Design Requirements

Bulb Temperature (Max)	550 °C
Cap-Base Temperature (Max)	250 °C

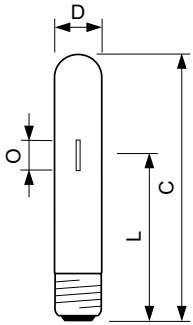
Product Data

Full product code	871016314600300
Order product name	MASTER HPI-T Plus 250W/645 E40 1SL
EAN/UPC - Product	8710163146003
Order code	928076109299
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928076109299
Net Weight (Piece)	0.184 kg
ILCOS Code	MT-250/45/2B-H-E40-/H

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.

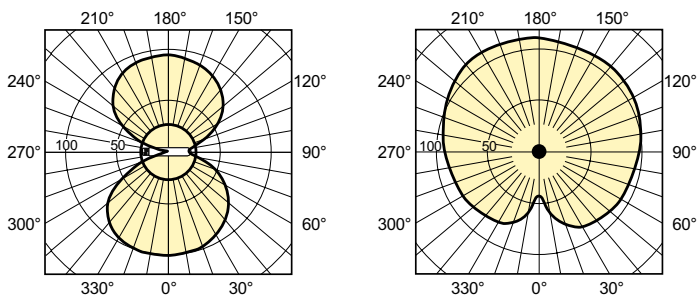
Dimensional drawing



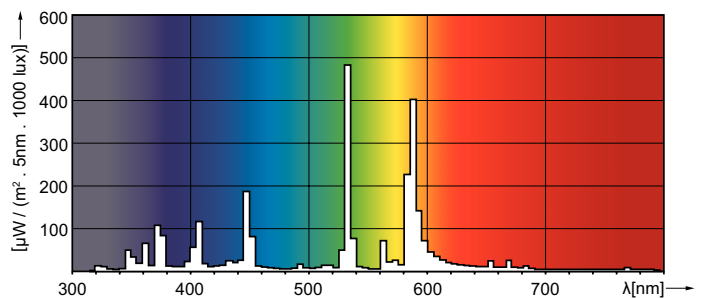
HPI-T Plus 250W/645 E40

Product	D (max)	O	L	C (max)
MASTER HPI-T Plus 250W/645 E40 1SL	47 mm	29 mm	158 mm	257 mm

Photometric data



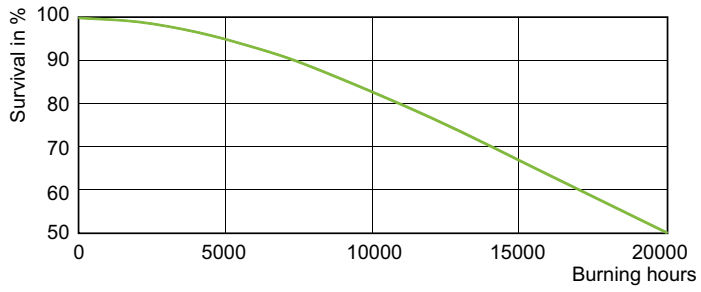
HPI-T



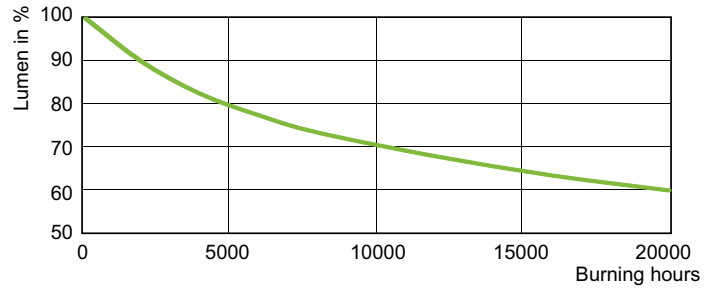
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Lifetime



HPI-T Life Expectancy



HPI-T Lumen Maintenance

