



MASTER HPI Plus

MASTER HPI Plus 400W/645 BU E40 1SL/6

Quartz metal halide lamps with opalized 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		Operating and Electrical	
Cap base	E40 [E40]	Lamp Luminous Flux (Nom)	32500 lm
Burning Position	H15 [Hanging +/-15D or Base Up (BU)]	Colour Designation	Cool White (CW)
Life to 5% failures (nom.)	5000 h	Chromaticity coordinate X (nom.)	367
Life to 10% failures (nom.)	7500 h	Chromaticity coordinate Y (nom.)	374
Life to 20% failures (nom.)	11000 h	Colour Temperature, horizontal (Nom)	4500 K
Life to 50% failures (nom.)	20000 h	Lamp Luminous Efficacy EM (Nom)	80 lm/W
System description	Base-Up	Colour Rendering Index,horiz (Nom)	65
LSF 2000 h Rated	99 %	LLMF 2000 h Rated	90 %
LSF 4000 h Rated	96 %	LLMF 4000 h Rated	82 %
LSF 6000 h Rated	93 %	LLMF 6000 h Rated	77 %
LSF 8000 h Rated	88 %	LLMF 8000 h Rated	73 %
LSF 12000 h Rated	76 %	LLMF 12000 h Rated	68 %
LSF 16000 h Rated	63 %	LLMF 16000 h Rated	63 %
LSF 20000 h Rated	50 %	LLMF 20000 h Rated	60 %
		Ratio scotopic/photopic lumens	1.50
Colour Code	645 [CCT of 4,500 K]	Power (Rated) (Nom)	405 W

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Lamp current run-up (max.)	6 A
Lamp current (EM) (nom.)	3.4 A
Ignition peak voltage (max.)	5000 V
Ignition supply voltage (min.)	198 V
Ignition time (max.)	30 s
Voltage (Max)	135 V
Voltage (Min)	115 V
Voltage (Nom)	125 V

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Coated glass
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Approval and Application

Energy efficiency label (EEL)	A
Mercury (Hg) content (nom.)	67 mg
Energy consumption kWh/1,000 hours	446 kWh

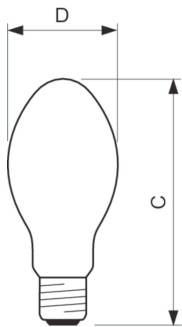
Luminaire Design Requirements

Bulb temperature (max.)	350 °C
Cap-base temperature (max.)	250 °C

Product Data

Full product code	871150018252410
Order product name	MASTER HPI Plus 400W/645 BU E40 1SL/6
EAN/UPC – product	8711500182524
Order code	928074309891
Local code	HPIP400WBUGES
Numerator – quantity per pack	1
SAP numerator – packs per outer box	6
Material no. (12 NC)	928074309891
Net Weight (Piece)	259.000 g
ILCOS code	ME-400/45/2A-H-E40-/V

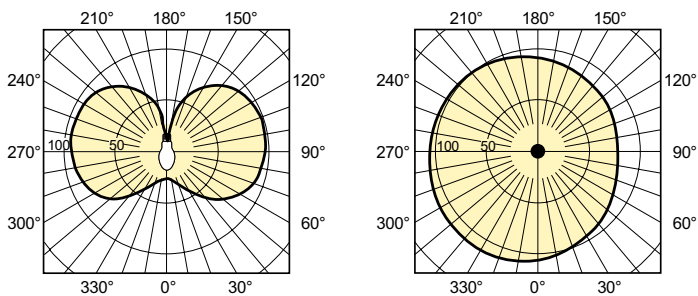
Dimensional drawing



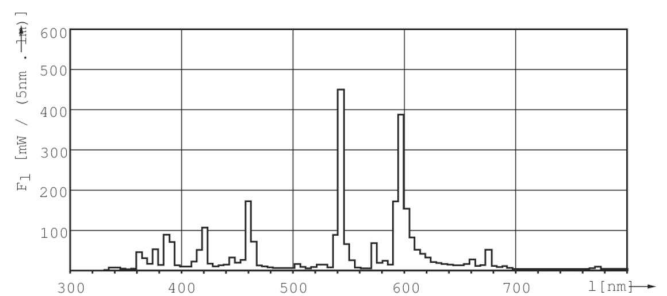
HPI Plus 400W/645 BU E40

Product	D (max)	C (max)
MASTER HPI Plus 400W/645 BU E40 1SL/6	122 mm	290 mm

Photometric data



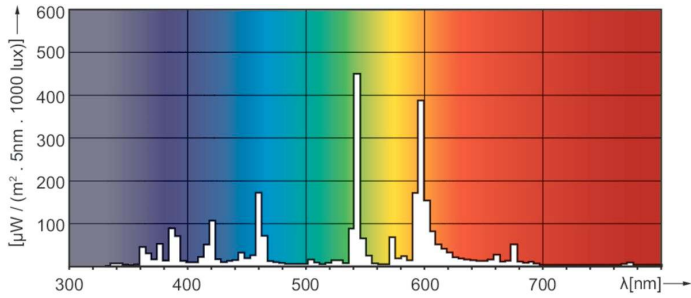
LDLD_HPI-Light distribution diagram



LDPB_HPI_Plus_250W_400W-Spectral power distribution B/W

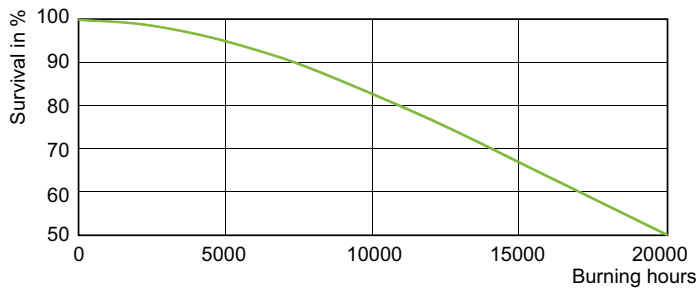
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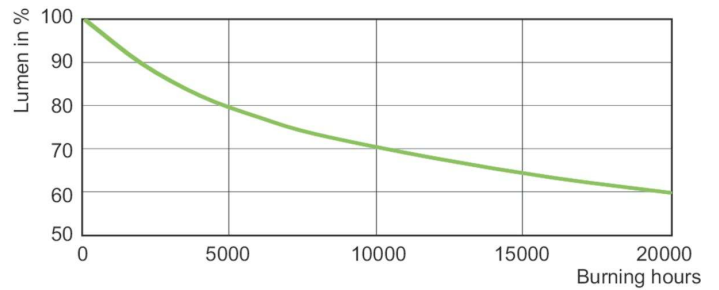


LDPO_HPI_Plus_250W_400W-Spectral power distribution Colour

Lifetime



LDLE_HPI_250W_400W-Life expectancy diagram



LDLM_HPI_250W_400W-Lumen maintenance diagram

