



# 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	
Cap base	E40 [ E40]
Burning Position	H15 [ Hanging +/-15D or Base Up (BU)]
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	Base-Up
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	
Colour Code	645 [ CCT of 4,500 K]

Lamp Luminous Flux (Nom)	32500 lm
Colour Designation	Cool White (CW)
Chromaticity coordinate X (nom.)	367
Chromaticity coordinate Y (nom.)	374
Colour Temperature, horizontal (Nom)	4500 K
Lamp Luminous Efficacy EM (Nom)	80 lm/W
Colour Rendering Index,horiz (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)	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
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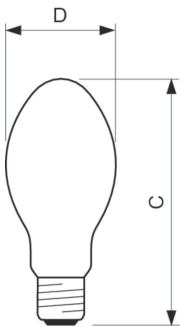
## Luminaire Design Requirements

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
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

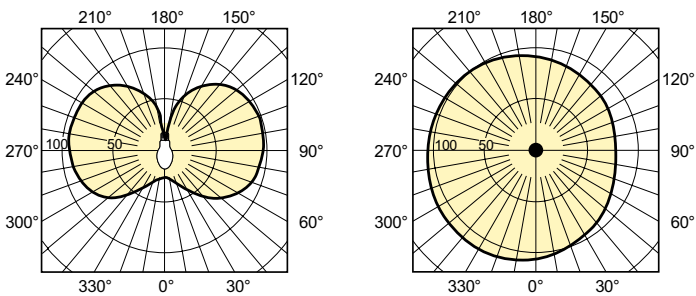
## Dimensional drawing



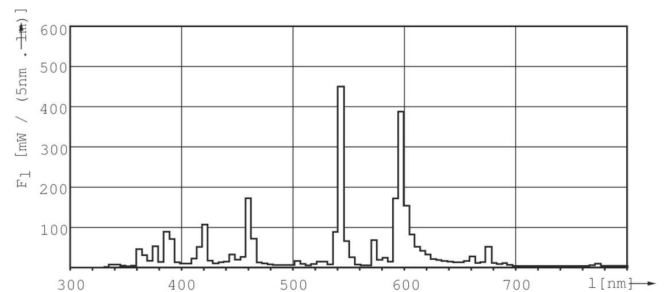
HPI Plus 400W/645 BU E40

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

## Photometric data



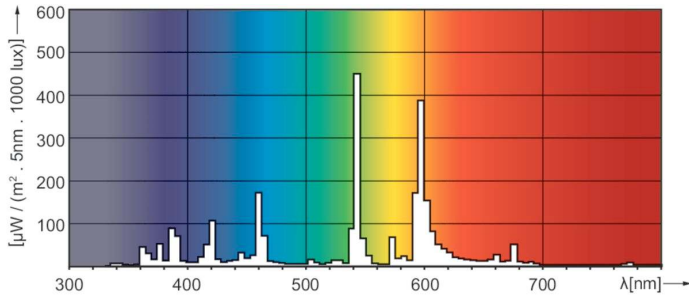
LDLD\_HPI-Light distribution diagram



LDPB\_HPI\_Plus\_250W\_400W-Spectral power distribution B/W

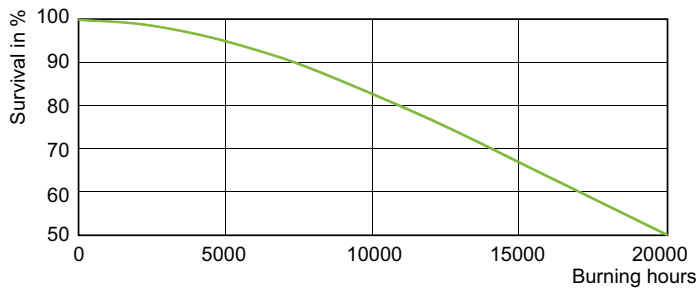
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## Photometric data

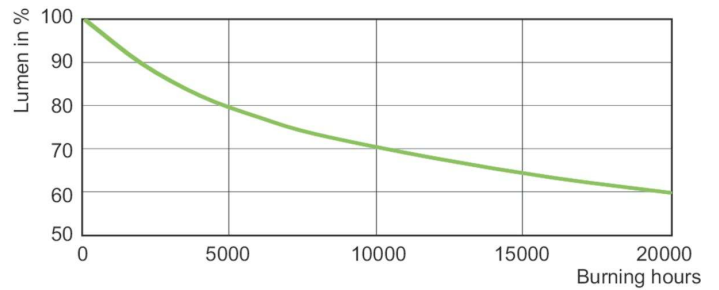


LDPO\_HPI\_Plus\_250W\_400W-Spectral power distribution Colour

## Lifetime



LDLE\_HPI\_250W\_400W-Life expectancy diagram



LDLM\_HPI\_250W\_400W-Lumen maintenance diagram

