



MASTER HPI Plus

MASTER HPI Plus 250W/645 BU E40 1SL/12

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 (Min)	15300 lm
Lamp Luminous Flux (Nom)	17000 lm
Colour Designation	Cool White (CW)
Chromaticity coordinate X (nom.)	365
Chromaticity coordinate Y (nom.)	363
Colour Temperature, horizontal (Nom)	4500 K
Lamp Luminous Efficacy EM (Nom)	66 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

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Operating and Electrical

Power (Rated) (Nom)	256 W
Lamp current run-up (max.)	3.9 A
Lamp current (EM) (nom.)	2.2 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

Lamp Finish	Coated glass
Bulb shape	BD90 [BD 90mm]

Approval and Application

Energy efficiency label (EEL)	A
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Mercury (Hg) content (nom.)	47 mg
Energy consumption kWh/1,000 hours	282 kWh

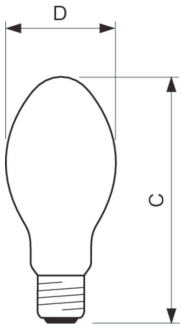
Luminaire Design Requirements

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

Product Data

Full product code	871150018114515
Order product name	MASTER HPI Plus 250W/645 BU E40 1SL/12
EAN/UPC – product	8711500181145
Order code	928076709891
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928076709891
SAP net weight (piece)	0.168 kg
ILCOS code	ME-250/45/2A-H-E40-/V

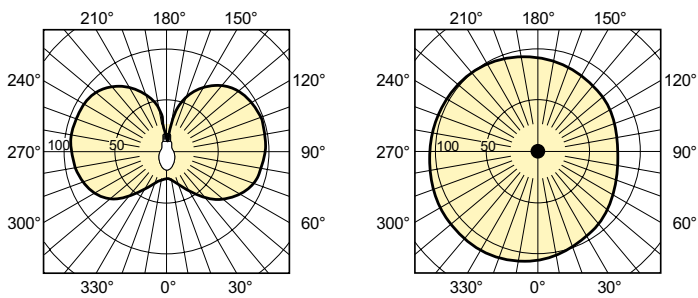
Dimensional drawing



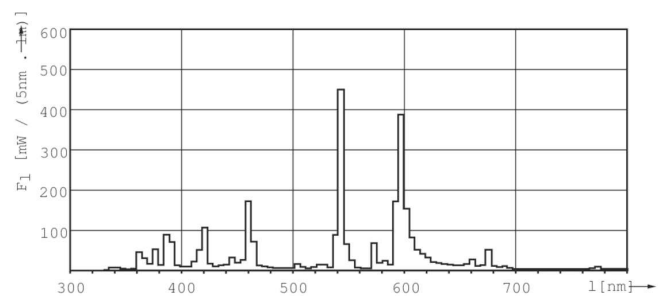
HPI Plus 250W/645 BU E40

Product	D (max)	C (max)
MASTER HPI Plus 250W/645 BU E40 1SL/12	91 mm	226 mm

Photometric data



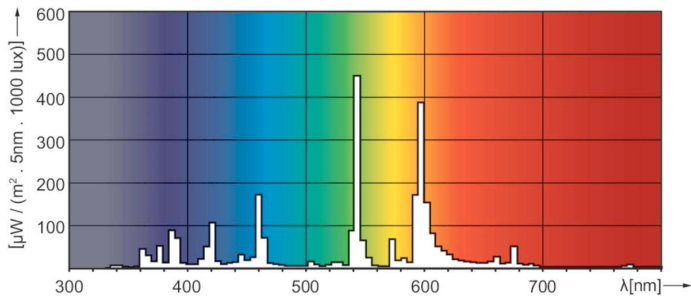
LDLD_HPI-Light distribution diagram



LDPB_HPI_Plus_250W_400W-Spectral power distribution B/W

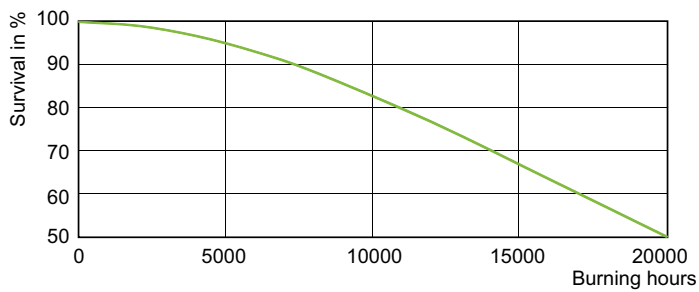
MASTER HPI Plus

Photometric data

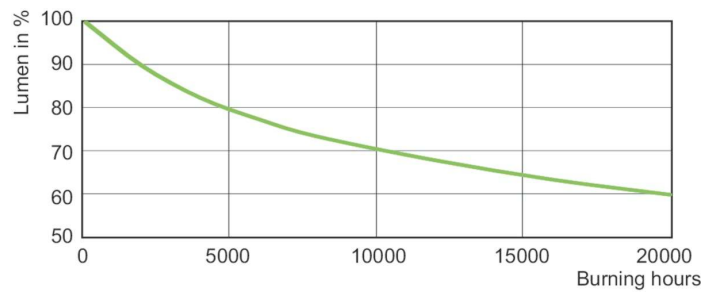


LDPO_HPI_Plus_250W_400W-Spectral power distribution Colour

Lifetime



LDLE_HPI_250W_400W-Life expectancy diagram



LDLM_HPI_250W_400W-Lumen maintenance diagram

