PHILIPS Lighting



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

MASTER HPI Plus

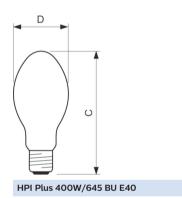
Lamp current run-up (max.)6 ALamp current (EM) (nom.)3.4 AIgnition peak voltage (max.)5000 VIgnition supply voltage (min.)198 VIgnition time (max.)30 sVoltage (Max)135 VVoltage (Min)115 VVoltage (Nom)125 VControls and DimmingDimmableNoMechanical and HousingLamp FinishCoated glassApproval and ApplicationEnergy efficiency label (EEL)AMercury (Hg) content (nom.)67 mg		
Ignition peak voltage (max.) 5000 V Ignition supply voltage (min.) 198 V Ignition time (max.) 30 s Voltage (Max) 135 V Voltage (Max) 135 V Voltage (Min) 115 V Voltage (Nom) 125 V Controls and Dimming Dimmable No No Mechanical and Housing Lamp Finish Coated glass Approval and Application Energy efficiency label (EEL) A	Lamp current run-up (max.)	6 A
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Lamp Finish Coated glass Approval and Application Energy efficiency label (EEL)		
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Energy efficiency label (EEL) A	Lamp Finish	Coated glass
Energy efficiency label (EEL) A		
	Approval and Application	
Mercury (Hg) content (nom.) 67 mg	Energy efficiency label (EEL)	A
	Mercury (Hg) content (nom.)	67 mg

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
SAP numerator – quantity per pack	1
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

446 kWh

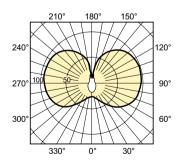
Energy consumption kWh/1,000 hours

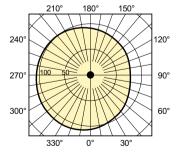
Dimensional drawing

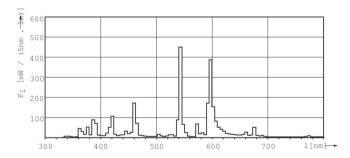


D (max) C (max)

Photometric data







LDPB_HPI_Plus_250W_400W-Spectral power distribution B/W

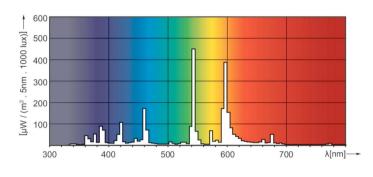
LDLD_HPI-Light distribution diagram

Datasheet, 2020, September 22

Product

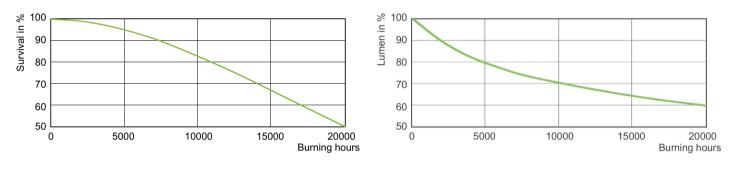
MASTER HPI Plus

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



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