



MASTER HPI Plus

MASTER HPI Plus 450W/645 BU E40 1SL/6

Quartz metal halide lamps with opalized outer bulb, intended for use on 400W high pressure sodium gear.

Product data

General Information	
Cap-Base	E40 [E40]
Bulb Shape	BD120 [BD 120mm]
Operating 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)	10000 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	
Color Code	645 [CCT of 4500K]
Luminous Flux (Rated) (Nom)	41000 lm
Color Designation	Cool White (CW)
Chromaticity Coordinate X (Nom)	381
Chromaticity Coordinate Y (Nom)	383
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	89 lm/W

Color Rendering Index (Nom)	63
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 %

Operating and Electrical	
Power (Rated) (Nom)	460.0 W
Lamp Current Run-Up (Max)	6.7 A
Lamp Current (EM) (Nom)	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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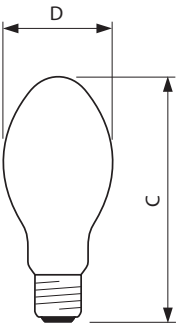
Mechanical and Housing	
Bulb Finish	Coated glass
Approval and Application	
Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	67 mg
Energy Consumption kWh/1000 h	506 kWh
Luminaire Design Requirements	
Bulb Temperature (Max)	350 °C
Cap-Base Temperature (Max)	250 °C

Product Data	
Full product code	871869673655500
Order product name	MASTER HPI Plus 450W/645 BU E40 1SL/6
EAN/UPC - Product	8718696736555
Order code	928074309892
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	6
Material Nr. (12NC)	928074309892
Net Weight (Piece)	259.000 g
ILCOS Code	

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 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 Plus 450W/645 BU E40

Product	D	C
MASTER HPI Plus 450W/645 BU E40 1SL/6	121.5 mm	284 mm

Photometric data

