MASTER HPI Plus

MASTER HPI Plus 400W/745 HOR E40 1SL

Quartz metal halide lamps with opalized outer bulb

Product data

- General Characteristics

System Description	Horizontal [Horizontal Operating Position]
Cap-Base	E40
Bulb	BD120 [BD 120mm]
Bulb Finish	Coated
Operating Position	p20 [Parallel +/-20D or Horizontal(HOR)]
Life to 5% failures	5000 hr
Life to 10% failures	7500 hr
Life to 20% failures	11000 hr
Life to 50% failures	20000 hr
LSF EM 20000h Rated,12h cycle	50 %
LSF EM 16000h Rated,12h cycle	63 %
LSF EM 12000h Rated,12h cycle	76 %
LSF EM 8000h Rated, 12h cycle	88 %
LSF EM 6000h Rated, 12h cycle	93 %
LSF EM 4000h Rated, 12h cycle	96 %
LSF EM 2000h Rated, 12h cycle	99 %

- Light Technical Characteristics

Color Code	745 [CCT of 4500K]
Color Rendering Index	69 Ra8
Color Designation (text)	Cool White
Color Temperature	4500 K
Color Temperature Technical	4500 K
Chromaticity Coordinate X	361 -
Chromaticity Coordinate Y	367 -
Lum Efficacy Rated EM 25°C	78 Lm/W
LLMF EM 20000h Rated	60 %
LLMF EM 16000h Rated	63 %
LLMF EM 12000h Rated	68 %
LLMF EM 8000h Rated	73 %
LLMF EM 6000h Rated	77 %
LLMF EM 4000h Rated	82 %
LLMF EM 2000h Rated	90 %
Luminous Flux EM 25°C, Rated	30000 Lm

- Electrical Characteristics

Lamp Wattage	400 W
Lamp Voltage	125 V
Lamp Current EM	3.4 A
Dimmable	No
Lamp Wattage EM 25°C, Rated	382 W
Lamp Wattage EM 25°C, Nominal	400 W

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sense and simplicity

- Environmental Characteristics

Mercury (Hg) Content	27 mg

- Luminaire Design Requirements

Cap-Base Temperature	250 (max) C
Bulb Temperature	350 (max) C

- Product Dimensions

Overall Length C	284 (max) mm
Diameter D	122 (max) mm

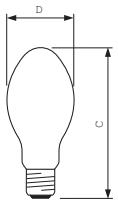
- Product Data

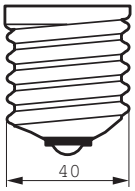
Order code	928073109830
Full product code	928073109830
Full product name	MASTER HPI Plus 400W/745 HOR E40 1SL
Order product name	MASTER HPI Plus 400W/745 HOR E40 1SL/6
Pieces per pack	1
Packing configuration	6
Packs per outerbox	6
Bar code on pack - EAN1	8711500181084
Bar code on outerbox - EAN3	8711500181091
Logistic code(s) - 12NC	928073109830
ILCOS code	ME-400/45/2A-H-E40-/H
Net weight per piece	0.243 kg

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

Dimensional drawing

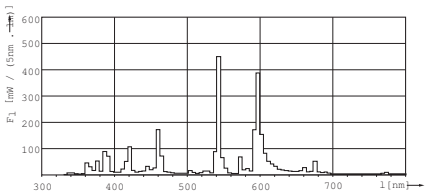




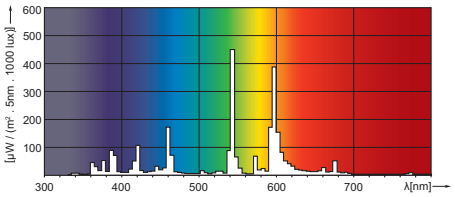
HPI, E40

Product	C (Max)	D (Max)
HPI Plus 400W/745 HOR E40	290	122

Photometric data



HPI Plus 250W & 400W



HPI Plus 250W & 400W

Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 – Ecodesign requirements, applicable from 13 April 2010.
1.3 Product information requirements on lamps
a) Nominal and rated lamp wattage;
b) Nominal and rated lamp luminous flux;
c) Rated lamp efficacy at 100 h in standard conditions.
d) Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
e) Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
f) Lamp mercury content as X.X mg;
g) Colour Rendering Index (Ra) of the lamp;
h) Colour temperature of the lamp;
i) Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room temperatures;
For more information see http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:076:0017:0044:EN:PDF

www.philips.com/lighting

2011, November 15
data subject to change