



Product Description

MASTER HPI Plus

Quartz metal halide lamps with opalized outer bulb

Benefits

- High safety and comfort level, maintained over life
- Minimal maintenance cost
- Initial investment saving options with "Plus"-concept and "S" and "P"-types
- Adjustable atmosphere creation by using appropriate colour temperature

Features

- Ovoid, internally white coated outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Available in cool white and daylight colour appearance demonstrating good colour stability
- "S"-type for direct retrofit for HPL lamps
- "P"-type for use without protective front shield

Application

- High bay lighting, e.g. industrial workshops, exhibition halls, hypermarkets, shopping malls, DIY stores, churches, airports and train stations

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.

MASTER HPI Plus

Controls and dimming

Dimmable	No
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General information

Cap-Base	E40
Life To 10% Failures (Nom)	7500 h
Life To 20% Failures (Nom)	11000 h
Life To 50% Failures (Nom)	20000 h
Life To 5% Failures (Nom)	5000 h
LSF 12000 h Rated	76 %
LSF 16000 h Rated	63 %
LSF 2000 h Rated	99 %
LSF 20000 h Rated	50 %
LSF 4000 h Rated	96 %
LSF 6000 h Rated	93 %
LSF 8000 h Rated	88 %
Operating Position	H15
System Description	Base-Up

Luminaire design requirements

Bulb Temperature (Max)	350 °C
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Light technical

Colour Code	645
Colour Designation	Cool White (CW)
Correlated Colour Temperature (Nom)	4500 K
Colour Rendering Index (Nom)	65
LLMF 12000 h Rated	68 %
LLMF 16000 h Rated	63 %
LLMF 2000 h Rated	90 %
LLMF 20000 h Rated	60 %
LLMF 4000 h Rated	82 %
LLMF 6000 h Rated	77 %
LLMF 8000 h Rated	73 %
Ratio Scotopic/Photopic Lumens	1.50

Mechanical and housing

Bulb Finish	Coated glass
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Approval and application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg)
		1000 h	Content (Nom)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	446 kWh	67 mg
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	282 kWh	47 mg

Operating and electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	3.4 A	135 V	115 V	125 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	2.2 A	138 V	118 V	128 V

Operating and electrical (2/2)

Order Code	Full Product Name	Power (Nom)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	405 W

Order Code	Full Product Name	Power (Nom)
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	256 W

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Light technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	367	374	80 lm/W	-
928076709891	MASTER HPI Plus	365	363	66 lm/W	15300 lm

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
	250W/645 BU E40 1SL/12				

Light technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	32500 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	17000 lm

Mechanical and housing

Order Code	Full Product Name	Bulb Shape
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	BD120

Order Code	Full Product Name	Bulb Shape
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	BD90

