



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"
- Adjustable atmosphere creation by using appropriate color 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 color appearance demonstrating good color stability
- "S"-type for direct retrofit for HPL lamps

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.

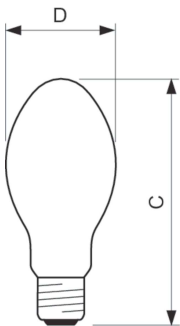
MASTER HPI Plus

Versions



HPI Plus, E40

Dimensional drawing



Product	D (max)	C (max)
MASTER HPI Plus 400W/645 BU E40 1SL/6	122 mm	290 mm
MASTER HPI Plus 400W/667 BU E40 1SL/6	122 mm	290 mm
MASTER HPI Plus 250W/645 BU E40 1SL/12	91 mm	226 mm
MASTER HPI Plus 250W/667 BU E40 1SL/12	91 mm	226 mm
HPI PLUS 400W/645 BU E40 1SL/6	122 mm	290 mm
HPI Plus 400W/645 BU E40 1CT/6	122 mm	290 mm
HPI PLUS 400W/645 BUS E40 1SL/6	122 mm	290 mm
HPI PLUS 250W/645 BU E40 1SL/12	91 mm	226 mm
HPI PLUS 250W/645 BU E40 1CT/12	91 mm	226 mm

Controls and dimming

Dimmable	No
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General information

Cap-Base	E40
Life To 50% Failures (Nom)	20000 h
Life To 5% Failures (Nom)	5000 h

Luminaire design requirements

Bulb Temperature (Max)	350 °C
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Mechanical and housing

Bulb Finish	Coated glass
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Approval and application

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	446 kWh	67 mg
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	434 kWh	67 mg

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	282 kWh	47 mg
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	278 kWh	47 mg

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Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	434 kWh	67 mg
928481100096	HPI Plus 400W/645 BU E40 1CT/6	434 kWh	67 mg
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	434 kWh	67 mg

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	278 kWh	47 mg
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	278 kWh	47 mg

Operating and electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Nom)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	3.4 A	135 V	115 V	125 V	405 W
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	3.4 A	135 V	115 V	125 V	405 W
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	2.2 A	138 V	118 V	128 V	256 W
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	2.2 A	138 V	118 V	128 V	253.0 W
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	3.4 A	135 V	115 V	125 V	405 W
928481100096	HPI Plus 400W/645 BU E40 1CT/6	3.4 A	135 V	115 V	125 V	405 W
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	3.4 A	135 V	115 V	125 V	405 W
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	2.2 A	138 V	118 V	128 V	256 W
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	2.2 A	138 V	118 V	128 V	256 W

General information (1/2)

Order Code	Full Product Name	Life To 10%	Life To 20%	LSF 12000 h	LSF 16000 h	LSF 2000 h	LSF 20000 h	LSF 4000 h
		Failures (Nom)	Failures (Nom)	Rated	Rated	Rated	Rated	Rated
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	7500 h	11000 h	76 %	63 %	99 %	50 %	96 %
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	7500 h	11000 h	76 %	63 %	99 %	50 %	96 %
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	7500 h	11000 h	76 %	63 %	99 %	50 %	96 %
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	7500 h	11000 h	76 %	63 %	99 %	50 %	96 %
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	7500 h	11000 h	-	-	-	-	-
928481100096	HPI Plus 400W/645 BU E40 1CT/6	7500 h	11000 h	-	-	-	-	-
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	7500 h	11000 h	-	-	-	-	-
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	-	10000 h	-	-	-	-	-
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	-	10000 h	-	-	-	-	-

General information (2/2)

Order Code	Full Product Name	LSF	LSF	Operating Position	System Description
		6000 h Rated	8000 h Rated		
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	93 %	88 %	H15	Base-Up
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	93 %	88 %	H15	Base-Up
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	93 %	88 %	H15	Base-Up

Order Code	Full Product Name	LSF	LSF	Operating Position	System Description
		6000 h Rated	8000 h Rated		
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	93 %	88 %	H15	Base-Up
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	-	-	H	Base-Up
928481100096	HPI Plus 400W/645 BU E40 1CT/6	-	-	H	Base-Up

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Order Code	Full Product Name	LSF	LSF	Operating Position	System Description
		6000 h Rated	8000 h Rated		
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	-	-	H	Base-Up/ internal Starter
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	-	-	H	Base-Up

Order Code	Full Product Name	LSF	LSF	Operating Position	System Description
		6000 h Rated	8000 h Rated		
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	-	-	H	Base-Up

Light technical (1/3)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color	
		Coordinate X (Nom)	Coordinate Y (Nom)				Rendering Index (Nom)	LLMF 12000 h Rated
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	367	374	645	Cool White (CW)	4500 K	65	68 %
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	310	341	667	Daylight	6700 K	60	68 %
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	365	363	645	Cool White (CW)	4500 K	65	68 %
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	308	318	667	Daylight	6700 K	69	68 %
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	367	374	645	Cool White (CW)	4500 K	65	-
928481100096	HPI Plus 400W/645 BU E40 1CT/6	367	374	645	Cool White (CW)	4500 K	65	-
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	367	374	645	Cool White (CW)	4500 K	65	-
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	359	354	645	Cool White (CW)	4500 K	65	-
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	359	354	645	Cool White (CW)	4500 K	65	-

Light technical (2/3)

Order Code	Full Product Name	LLMF	LLMF	LLMF	LLMF	LLMF	LLMF	Lumen	Lumen	Lumen
		16000 h Rated	2000 h Rated	20000 h Rated	4000 h Rated	6000 h Rated	8000 h Rated	Maintenance 10000 h (Nom)	Maintenance 2000 h (Min)	Maintenance 2000 h (Nom)
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	63 %	90 %	60 %	82 %	77 %	73 %	-	-	-
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	63 %	90 %	60 %	82 %	77 %	73 %	-	-	-
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	63 %	90 %	60 %	82 %	77 %	73 %	-	-	-
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	63 %	90 %	60 %	82 %	77 %	73 %	-	-	-
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	-	-	-	-	-	-	70 %	75 %	90 %
928481100096	HPI Plus 400W/645 BU E40 1CT/6	-	-	-	-	-	-	70 %	75 %	90 %
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	-	-	-	-	-	-	70 %	75 %	90 %
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	-	-	-	-	-	-	75 %	75 %	90 %
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	-	-	-	-	-	-	75 %	75 %	90 %

Light technical (3/3)

MASTER HPI Plus

Order Code	Full Product Name	Lumen Maintenance 20000 h	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Ratio Scotopic/Photopic Lumens
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	-	-	-	80 lm/W	-	32500 lm	1.50
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	-	-	-	80 lm/W	-	32500 lm	2.00
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	-	-	-	66 lm/W	15300 lm	17000 lm	1.50
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	-	-	-	72 lm/W	-	18000 lm	2.00
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	60 %	65 %	80 %	80 lm/W	30000 lm	32500 lm	-
928481100096	HPI Plus 400W/645 BU E40 1CT/6	60 %	65 %	80 %	80 lm/W	30000 lm	32500 lm	-
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	60 %	65 %	80 %	79 lm/W	28800 lm	32000 lm	-
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	-	65 %	80 %	66 lm/W	15300 lm	17000 lm	-
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	-	65 %	80 %	66 lm/W	15300 lm	17000 lm	-

Mechanical and housing

Order Code	Full Product Name	Bulb Shape
928074309891	MASTER HPI Plus 400W/645 BU E40 1SL/6	BD120
928074409894	MASTER HPI Plus 400W/667 BU E40 1SL/6	BD120
928076709891	MASTER HPI Plus 250W/645 BU E40 1SL/12	BD90
928076809894	MASTER HPI Plus 250W/667 BU E40 1SL/12	BD90
928481100094	HPI PLUS 400W/645 BU E40 1SL/6	BD120
928481100096	HPI Plus 400W/645 BU E40 1CT/6	BD120
928481200093	HPI PLUS 400W/645 BUS E40 1SL/6	BD120
928481400094	HPI PLUS 250W/645 BU E40 1SL/12	BD90

Order Code	Full Product Name	Bulb Shape
928481400096	HPI PLUS 250W/645 BU E40 1CT/12	BD90

