



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 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
- "P"-type for use without protective front shield

Application

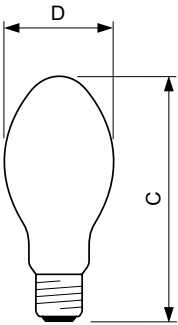
- High bay lighting, e.g. industrial workshops, exhibition halls, supermarkets, shopping malls, DIY stores, churches, airports and train stations

MASTER HPI Plus

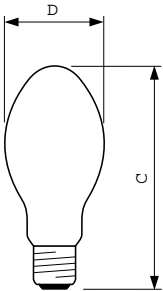
Versions



Dimensional drawing



HPI Plus 400W/645 BU E40



HPI Plus 400W/645 BUS E40

Product	D	C
MASTER HPI Plus 400W/645 BU E40 1SL/6	122 mm	290 mm
HPI PLUS 400W/645 BU E40 1SL/6	122 mm	290 mm
MASTER HPI Plus 400W/645 BU E40 1SL/6	121.5 mm	284 mm
HPI Plus 400W/645 BU E40 1CT/6	122 mm	290 mm

Product	D	C
MASTER HPI Plus 400W/645 BUS E40 1SL/6	121.5 mm	284 mm

Controls and Dimming

Dimmable No

General Information

Cap-Base E40

Life To 50% Failures (Nom) 20000

Life To 5% Failures (Nom) 5000

Mechanical and Housing

Bulb Finish Coated glass

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928074309891	434	A+	67
928074409892	434	A+	67
928074409894	434	A+	67
928076709891	278	A	47
928076809892	278	A	47
928076809894	278	A	47
928410600027	434	A+	67.2
928410800027	278	A	46.5
928481100092	434	A+	67

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928481100094	434	A+	67
928481100096	434	A+	67
928481200092	434	A+	67
928481200093	434	A+	67
928481400092	278	A	47
928481400094	278	A	47
928481400096	278	A	47
928074709891	434	A+	67
928410700027	434	A+	67.2

Operating and Electrical

order code	Lamp Current			Power (Rated)	
	(EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	
928074309891	3.4	135	115	125	395.0
928074409892	3.4	135	115	125	395.0
928074409894	3.4	135	115	125	395.0
928076709891	2.2	138	118	128	253.0
928076809892	2.2	138	118	128	253.0
928076809894	2.2	138	118	128	253.0
928410600027	3.4	135	115	125	395.0
928410800027	2.2	138	118	128	253.0
928481100092	3.4	135	115	125	395.0

order code	Lamp Current			Power (Rated)	
	(EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	
928481100094	3.4	135	115	125	395.0
928481100096	3.4	135	115	125	395.0
928481200092	3.4	135	115	125	395.0
928481200093	3.4	135	115	125	395.0
928481400092	2.2	138	118	128	253.0
928481400094	2.2	138	118	128	253.0
928481400096	2.2	138	118	128	253.0
928074709891	3.4	135	115	125	395.0
928410700027	3.4	135	115	125	395.0

General Information (1/2)

order code	Bulb Shape	Life To 10% Failures		Life To 20% Failures		Life To 50% Failures (Min)		
		(Nom)	(Nom)	(Nom)	(Nom)	LSF 12000 h Rated	LSF 16000 h Rated	LSF 2000 h Rated
928074309891	BD120	7500	11000	-	76	63	99	50
928074409892	BD120	7500	11000	-	76	63	99	50
928074409894	BD120	7500	11000	-	76	63	99	50
928076709891	BD90	7500	11000	-	76	63	99	50
928076809892	BD90	7500	11000	-	76	63	99	50
928076809894	BD90	7500	11000	-	76	63	99	50
928410600027	ED-37	7500	11000	-	76	63	99	50
928410800027	ED-28	7500	11000	-	76	63	99	50
928481100092	BD120	7500	11000	-	-	-	-	-
928481100094	BD120	7500	11000	-	-	-	-	-
928481100096	BD120	7500	11000	-	-	-	-	-
928481200092	BD120	7500	11000	-	-	-	-	-
928481200093	BD120	7500	11000	-	-	-	-	-
928481400092	BD90	-	10000	10000	-	-	-	-
928481400094	BD90	-	10000	10000	-	-	-	-
928481400096	BD90	-	10000	10000	-	-	-	-
928074709891	ED120	7500	11000	-	76	63	99	50
928410700027	ED-37	7500	11000	-	76	63	99	50

General Information (2/2)

MASTER HPI Plus

	LSF 4000	LSF 6000	LSF 8000	Operating	
order code	h Rated	h Rated	h Rated	Position	System Description
928074309891	96	93	88	H15	Base-Up
928074409892	96	93	88	H15	Base-Up
928074409894	96	93	88	H15	Base-Up
928076709891	96	93	88	H15	Base-Up
928076809892	96	93	88	H15	Base-Up
928076809894	96	93	88	H15	Base-Up
928410600027	96	93	88	H15	Base-Up/Protected
928410800027	96	93	88	H15	Base-Up/Protected
928481100092	-	-	-	H	Base-Up
928481100094	-	-	-	H	Base-Up
928481100096	-	-	-	H	Base-Up

	LSF 4000	LSF 6000	LSF 8000	Operating	
order code	h Rated	h Rated	h Rated	Position	System Description
928481200092	-	-	-	H	Base-Up/internal Starter
928481200093	-	-	-	H	Base-Up/internal Starter
928481400092	-	-	-	H	Base-Up
928481400094	-	-	-	H	Base-Up
928481400096	-	-	-	H	Base-Up
928074709891	96	93	88	H15	Base-Up/internal Starter
928410700027	96	93	88	H15	Base-Up/internal Starter/Protected

Luminaire Design Requirements

order code	Bulb Temperature (Max)
928074309891	350
928074409892	350
928074409894	350
928076709891	350
928076809892	350
928076809894	350
928410600027	260
928410800027	260
928481100092	350

order code	Bulb Temperature (Max)
928481100094	350
928481100096	350
928481200092	350
928481200093	350
928481400092	350
928481400094	350
928481400096	350
928074709891	350
928410700027	260

Light Technical (1/3)

order code	Chromaticity Coordinate		Chromaticity Coordinate		Correlated Color		Color Rendering Index	LLMF 12000 h	LLMF 16000 h
	X (Nom)	Y (Nom)	Color Code	Color Designation	Temperature (Nom)	(Nom)	Rated	Rated	
928074309891	367	374	645	Cool White (CW)	4500	65	68	63	
928074409892	308	318	667	Daylight	6700	69	68	63	
928074409894	308	318	667	Daylight	6700	69	68	63	
928076709891	365	363	645	Cool White (CW)	4500	65	68	63	
928076809892	308	318	667	Daylight	6700	69	68	63	
928076809894	308	318	667	Daylight	6700	69	68	63	
928410600027	367	374	645	Cool White (CW)	4500	65	68	63	
928410800027	365	363	645	Cool White (CW)	4500	65	68	63	
928481100092	367	374	645	Cool White (CW)	4500	65	-	-	
928481100094	367	374	645	Cool White (CW)	4500	65	-	-	
928481100096	367	374	645	Cool White (CW)	4500	65	-	-	
928481200092	367	374	645	Cool White (CW)	4500	65	-	-	
928481200093	367	374	645	Cool White (CW)	4500	65	-	-	
928481400092	359	354	645	Cool White (CW)	4500	65	-	-	
928481400094	359	354	645	Cool White (CW)	4500	65	-	-	
928481400096	359	354	645	Cool White (CW)	4500	65	-	-	
928074709891	367	374	645	Cool White (CW)	4500	65	68	63	
928410700027	367	374	645	Cool White (CW)	4500	65	68	63	

Light Technical (2/3)

MASTER HPI Plus

order code	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 20000 h
928074309891	90	60	82	77	73	-	-	-	-
928074409892	90	60	82	77	73	-	-	-	-
928074409894	90	60	82	77	73	-	-	-	-
928076709891	90	60	82	77	73	-	-	-	-
928076809892	90	60	82	77	73	-	-	-	-
928076809894	90	60	82	77	73	-	-	-	-
928410600027	90	60	82	77	73	-	-	-	-
928410800027	90	60	82	77	73	-	-	-	-
928481100092	-	-	-	-	-	70	75	90	60
928481100094	-	-	-	-	-	70	75	90	60
928481100096	-	-	-	-	-	70	75	90	60
928481200092	-	-	-	-	-	70	75	90	60
928481200093	-	-	-	-	-	70	75	90	60
928481400092	-	-	-	-	-	75	75	90	-
928481400094	-	-	-	-	-	75	75	90	-
928481400096	-	-	-	-	-	75	75	90	-
928074709891	90	60	82	77	73	-	-	-	-
928410700027	90	60	82	77	73	-	-	-	-

Light Technical (3/3)

order code	Lumen	Lumen	Luminous	Luminous	Luminous
	Maintenance	Maintenance	Efficacy	Flux (Rated)	Flux (Rated)
	5000 h (Min)	5000 h (Nom)	(rated)	(Min)	(Nom)
928074309891	-	-	82	-	32500
928074409892	-	-	82	-	32500
928074409894	-	-	82	-	32500
928076709891	-	-	72	-	18000
928076809892	-	-	72	-	18000
928076809894	-	-	72	-	18000
928410600027	-	-	82	-	32500
928410800027	-	-	72	-	18000
928481100092	65	80	82	30000	32500

order code	Lumen	Lumen	Luminous	Luminous	Luminous
	Maintenance	Maintenance	Efficacy	Flux (Rated)	Flux (Rated)
	5000 h (Min)	5000 h (Nom)	(rated)	(Min)	(Nom)
928481100094	65	80	82	30000	32500
928481100096	65	80	82	30000	32500
928481200092	65	80	82	30000	32500
928481200093	65	80	82	30000	32500
928481400092	65	80	72	17000	18000
928481400094	65	80	72	17000	18000
928481400096	65	80	72	17000	18000
928074709891	-	-	82	-	32500
928410700027	-	-	82	-	32500

Light Distribution Diagrams

