



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.

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General Information (1/2)

order code	Bulb Shape	Cap-Base	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Min)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)	LSF 12000 h Rated	LSF 16000 h Rated	LSF 2000 h Rated
21147715	ED-28	E40	7500	11000	-	20000	5000	76	63	99
20337310	BD120	E40	7500	11000	-	20000	5000	-	-	-
20343415	BD90	E40	-	10000	10000	20000	5000	-	-	-

General Information (2/2)

order code	LSF 20000 h Rated	LSF 4000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated	Operating Position	System Description
21147715	50	96	93	88	H15	Base-Up/Protected
20337310	-	-	-	-	H	Base-Up
20343415	-	-	-	-	H	Base-Up

Light Technical (1/3)

order code	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)	LLMF 12000 h Rated	LLMF 16000 h Rated	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated
21147715	365	363	Cool White (CW)	4500	65	68	63	90	60	82
20337310	367	374	Cool White (CW)	4500	65	-	-	-	-	-
20343415	359	354	Cool White (CW)	4500	65	-	-	-	-	-

Light Technical (2/3)

order code	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	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
21147715	77	73	-	-	-	-	-	-	72	-
20337310	-	-	70	75	90	60	65	80	82	30000
20343415	-	-	75	75	90	-	65	80	72	17000

Light Technical (3/3)

order code	Luminous Flux (Rated) (Nom)
21147715	18000
20337310	32500
20343415	18000

Mechanical and Housing

order code	Bulb Finish
21147715	Coated
20337310	Coated
20343415	Coated

Operating and Electrical

order code	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Nom)
21147715	2.2	138	118	128	250
20337310	3.4	135	115	125	400
20343415	2.2	138	118	128	250

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
21147715	278	A	46.5
20337310	434	A+	67
20343415	278	A	47

Luminaire Design Requirements

order code	Bulb Temperature (Max)
21147715	260
20337310	350

order code	Bulb Temperature (Max)
20343415	350



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