



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, 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

Dimmable	No
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
Light Technical	
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 %
Mechanical and Housing	

Approval and Application

		Energy Consumption kWh/	Mercury (Hg) Content
Order Code	Full Product Name	1000 h	(Nom)
18252410	MASTER HPI Plus $400W/645~BU~E40~1SL/6$	446 kWh	67 mg
20737110	MASTER HPI Plus $400W/667~BU~E40~1SL/6$	434 kWh	67 mg
18114515	MASTER HPI Plus 250W/645 BU E40 1SL/12	282 kWh	47 mg
20739515	MASTER HPI Plus 250W/667 BU E40 1SL/12	278 kWh	47 mg

Operating and Electrical (1/2)

		Lamp			
Order		Current	Voltage	Voltage	Voltage
Code	Full Product Name	(EM) (Nom)	(Max)	(Min)	(Nom)
18252410	MASTER HPI Plus	3.4 A	135 V	115 V	125 V
	400W/645 BU E40				
	1SL/6				
20737110	MASTER HPI Plus	3.4 A	135 V	115 V	125 V
	400W/667 BU E40				
	1SL/6				

		Lamp			
Order		Current	Voltage	Voltage	Voltage
Code	Full Product Name	(EM) (Nom)	(Max)	(Min)	(Nom)
18114515	MASTER HPI Plus	2.2 A	138 V	118 V	128 V
	250W/645 BU E40				
	1SL/12				
20739515	MASTER HPI Plus	2.2 A	138 V	118 V	128 V
	250W/667 BU E40				
	1SL/12				

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
18252410	MASTER HPI Plus 400W/645 BU E40 1SL/6	405 W
20737110	MASTER HPI Plus 400W/667 BU E40 1SL/6	405 W

Order Code	Full Product Name	Power (Rated) (Nom)
18114515	MASTER HPI Plus 250W/645 BU E40 1SL/12	256 W
20739515	MASTER HPI Plus 250W/667 BU E40 1SL/12	253.0 W

Light Technical (1/2)

MASTER HPI Plus

		Chromaticity	Chromaticity		
Order	Full Product	Coordinate X	Coordinate Y	Colour	Colour
Code	Name	(Nom)	(Nom)	Code	Designation
18252410	MASTER HPI Plus	367	374	645	Cool White
	400W/645 BU				(CW)
	E40 1SL/6				
20737110	MASTER HPI Plus	310	341	667	Daylight
	400W/667 BU				
	E40 1SL/6				

		Chromaticity	Chromaticity		
Order	Full Product	Coordinate X	Coordinate Y	Colour	Colour
Code	Name	(Nom)	(Nom)	Code	Designation
18114515	MASTER HPI Plus	365	363	645	Cool White
	250W/645 BU				(CW)
	E40 1SL/12				
20739515	MASTER HPI Plus	308	318	667	Daylight
	250W/667 BU				
	E40 1SL/12				

Light Technical (2/2)

			Colour				Ratio Scotopic/
		Correlated Colour	Rendering Index	Luminous Efficacy	Luminous Flux	Luminous Flux	Photopic
Order Code	Full Product Name	Temperature (Nom)	(Nom)	(rated) (Nom)	(Rated) (Min)	(Rated) (Nom)	Lumens
18252410	MASTER HPI Plus 400W/645 BU E40	4500 K	65	80 lm/W	-	32500 lm	1.50
	1SL/6						
20737110	MASTER HPI Plus 400W/667 BU E40	6700 K	60	80 lm/W	-	32500 lm	2.00
	1SL/6						
18114515	MASTER HPI Plus 250W/645 BU E40	4500 K	65	66 lm/W	15300 lm	17000 lm	1.50
	1SL/12						
20739515	MASTER HPI Plus 250W/667 BU E40	6700 K	69	72 lm/W	-	18000 lm	2.00
	1SL/12						

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
18252410	MASTER HPI Plus 400W/645 BU E40 1SL/6	BD120
20737110	MASTER HPI Plus 400W/667 BU E40 1SL/6	BD120

Order Code	Full Product Name	Bulb Shape
18114515	MASTER HPI Plus 250W/645 BU E40 1SL/12	BD90
20739515	MASTER HPI Plus 250W/667 BU E40 1SL/12	BD90

