



Product Description

MASTER HPI-T Plus

Quartz metal halide lamps with clear outer bulb

Benefits

- High safety and comfort level, maintained over life
- Minimal maintenance cost
- Initial investment saving options with "Plus"-concept

Features

- Clear tubular outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Renders a natural white color appearance and good color stability

Application

- Sports lighting, floodlighting of buildings and monuments, area lighting e.g. harbours and building sites, canopy lighting e.g. petrol stations, horticultural lighting

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-T Plus

Approval and Application

Energy Efficiency Label (EEL) A

Controls and Dimming

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
 Operating Position P20
 System Description Horizontal

Light Technical

Colour Code 645
 Colour Designation Cool White (CW)
 Correlated Colour Temperature (Nom) 4500 K
 Colour Rendering Index (Nom) 65
 Lumen Maintenance 10000 h (Nom) 70 %
 Lumen Maintenance 2000 h (Min) 75 %
 Lumen Maintenance 2000 h (Nom) 90 %
 Lumen Maintenance 20000 h 60 %
 Lumen Maintenance 5000 h (Min) 65 %
 Lumen Maintenance 5000 h (Nom) 80 %

Mechanical and Housing

Bulb Finish Clear
 Bulb Shape T46

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg) Content
		1000 h	(Nom)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	272 kWh	36 mg
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	424 kWh	29.5 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	2.1 A	138 V	118 V	128 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	3.4 A	135 V	115 V	125 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	247 W

Order Code	Full Product Name	Power (Rated) (Nom)
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	385 W

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	550 °C

Order Code	Full Product Name	Bulb Temperature (Max)
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	600 °C

Light Technical (1/2)

MASTER HPI-T Plus

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	365	377	79 lm/W	17550 lm
17990615	MASTER HPI-T Plus 361	361	372	83 lm/W	30000 lm

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
	400W/645 E40 1SL/12				

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	19500 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	32000 lm

