



# 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.

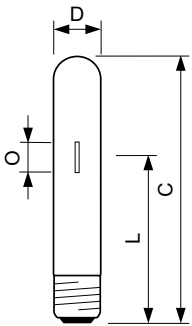
# MASTER HPI-T Plus

## Versions



HPI-T Plus, E39/E40

## Dimensional drawing



Product	D (max)	O	L	C (max)
MASTER HPI-T Plus 250W/645 E40 1SL/12	47 mm	29 mm	155 mm	255 mm
MASTER HPI-T Plus 400W/645 E40 1SL/12	47 mm	30.5 mm	168 mm	286 mm

# MASTER HPI-T Plus

## Approval and Application

Energy Efficiency Label (EEL)	A
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## Controls and Dimming

Dimmable	No
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## 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

Color Code	645
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4500 K
Color 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	T14 1/2

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg)
		1000 h	Content (Nom)
928481300098	MASTER HPI-T Plus 250W/645 E40 1SL/12	272 kWh	36 mg
928481600096	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)
928481300098	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)
928481600096	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)
928481300098	MASTER HPI-T Plus 250W/645 E40 1SL/12	247 W

Order Code	Full Product Name	Power (Rated) (Nom)
928481600096	MASTER HPI-T Plus 400W/645 E40 1SL/12	385 W

## Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928481300098	MASTER HPI-T Plus 250W/645 E40 1SL/12	550 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928481600096	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)
928481300098	MASTER HPI-T Plus 250W/645 E40 1SL/12	365	377	79 lm/W	17550 lm
928481600096	MASTER HPI-T Plus	361	372	83 lm/W	30000 lm

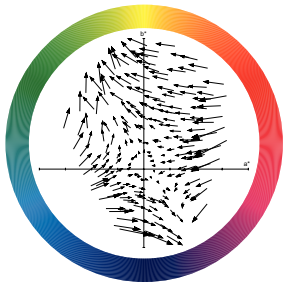
Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
	400W/645 E40 1SL/12				

## Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928481300098	MASTER HPI-T Plus 250W/645 E40 1SL/12	19500 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928481600096	MASTER HPI-T Plus 400W/645 E40 1SL/12	32000 lm

## Colour Rendering Diagrams



LDCR\_HPI-T\_250W\_400W-Colour rendering diagram

MASTER HPI-T Plus

