

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 colour appearance and good colour stability

Application

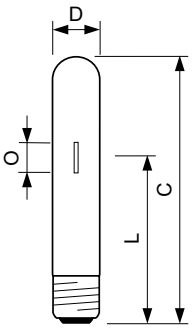
- Sports lighting. floodlighting of buildings and monuments, area lighting e.g. harbours and building sites, canopy lighting e.g. petrol stations, horticultural lighting

Versions



MASTER HPI-T Plus

Dimensional drawing



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

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 %
Luminous Efficacy (rated) (Nom)	84 lm/W
Mechanical and Housing	
Bulb Finish	Clear (CL)
Bulb Shape	T46

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	269 kWh	36 mg
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	420 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

MASTER HPI-T Plus

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	245 W

Order Code	Full Product Name	Power (Rated) (Nom)
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	382 W

Luminaire Design Requirements

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

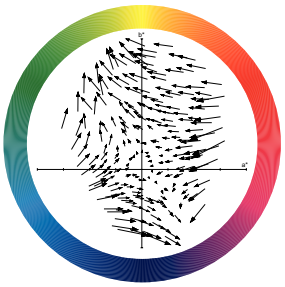
Order Code	Full Product Name	Bulb Temperature (Max)
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	600 °C

Light Technical

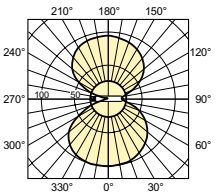
Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
17989015	MASTER HPI-T Plus 250W/645 E40 1SL/12	365	377	18500 lm	20500 lm

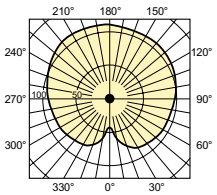
Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
17990615	MASTER HPI-T Plus 400W/645 E40 1SL/12	361	372	30000 lm	32000 lm

Colour Rendering Diagrams



Light Distribution Diagrams







© 2017 Philips Lighting Holding B.V. All rights reserved. Philips Lighting reserves the right to make changes in specifications and/or to discontinue any product at any timewithout notice or obligation and will not be liable for any consequences resulting from the use of this publication.

www.lighting.philips.com
2017, March 16 - data subject to change