



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

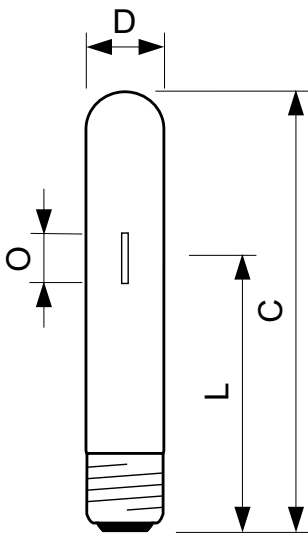
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- For use with control gear designed for high-pressure mercury or sodium lamps
- A lamp breaking is extremely unlikely to have any 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.

Related products



HPI-T Plus, E39/E40

Dimensional drawing



HPI-T Plus, E39/E40

HPI-T Plus 250W/645 E40

Product	D	O	L	C
MASTER HPI-T Plus 250W/645 E40 1SL/12	47 mm	29 mm	155 mm	255 mm
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HPI-T Plus 250W/645 E40 1SL/12	47 mm	29 mm	155 mm	255 mm
MASTER HPI-T Plus 250W/645 E40 1SL/12	47 mm	29 mm	155 mm	255 mm
MASTER HPI-T Plus 250W/645 E40 1SL	47 mm	29 mm	158 mm	257 mm

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
928076109299	T46	E40	7500	11000	-	20000	5000	76	63	99
928473709299	T46	E40	-	5000	10000	20000	5000	-	-	-
928481300092	T46	E40	7500	11000	-	20000	5000	-	-	-
928481300096	T46	E40	7500	11000	-	20000	5000	-	-	-
928481300097	T46	E40	7500	11000	-	20000	5000	-	-	-
928481300098	T46	E40	7500	11000	-	20000	5000	-	-	-
928481600092	T46	E40	7500	11000	-	20000	5000	-	-	-
928481600094	T46	E40	7500	11000	-	20000	5000	-	-	-
928481600095	T46	E40	7500	11000	-	20000	5000	-	-	-
928481600096	T46	E40	7500	11000	-	20000	5000	-	-	-
928483400191	T46	E39	7500	11000	-	20000	5000	-	-	-
928483500191	T46	E39	7500	11000	-	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
928076109299	50	96	93	88	P20	-
928473709299	-	-	-	-	P20	Horizontal Operating Position
928481300092	-	-	-	-	P20	Horizontal Operating Position
928481300096	-	-	-	-	P20	Horizontal Operating Position
928481300097	-	-	-	-	P20	Horizontal Operating Position
928481300098	-	-	-	-	P20	Horizontal Operating Position
928481600092	-	-	-	-	P20	Horizontal Operating Position
928481600094	-	-	-	-	P20	Horizontal Operating Position
928481600095	-	-	-	-	P20	Horizontal Operating Position
928481600096	-	-	-	-	P20	Horizontal Operating Position
928483400191	-	-	-	-	P20	Horizontal Operating Position
928483500191	-	-	-	-	P20	Horizontal Operating Position

Light Technical (1/3)

order code	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	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
928076109299	365	377	645	Cool White (CW)	4500	65	68	63	90	60
928473709299	369	375	643	Cool White (CW)	4300	65	-	-	-	-
928481300092	365	377	645	Cool White (CW)	4500	65	-	-	-	-
928481300096	365	377	645	Cool White (CW)	4500	65	-	-	-	-
928481300097	365	377	645	Cool White (CW)	4500	65	-	-	-	-
928481300098	365	377	645	Cool White (CW)	4500	65	-	-	-	-
928481600092	361	372	645	Cool White (CW)	4500	65	-	-	-	-
928481600094	361	372	645	Cool White (CW)	4500	65	-	-	-	-
928481600095	361	372	645	Cool White (CW)	4500	65	-	-	-	-
928481600096	361	372	645	Cool White (CW)	4500	65	-	-	-	-
928483400191	365	377	645	Cool White (CW)	4500	69	-	-	-	-
928483500191	361	372	645	Cool White (CW)	4500	69	-	-	-	-

Light Technical (2/3)

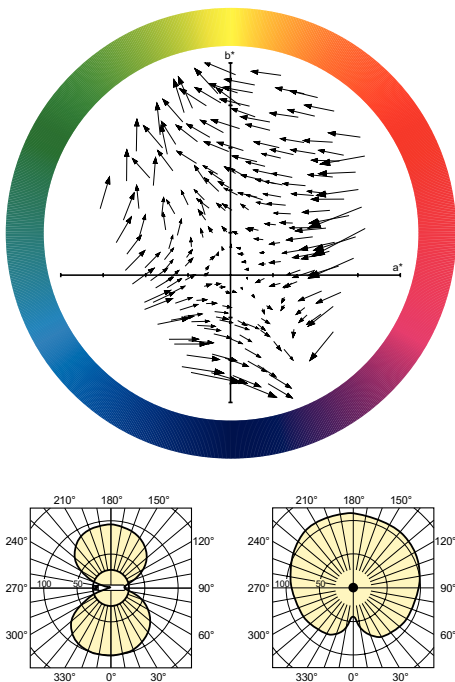
order code	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 20000 h	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)
928076109299	82	77	73	-	-	-	-	-	-	84
928473709299	-	-	-	75	80	90	-	70	85	90
928481300092	-	-	-	70	75	90	60	65	80	84
928481300096	-	-	-	70	75	90	60	65	80	84
928481300097	-	-	-	70	75	90	60	65	80	84
928481300098	-	-	-	70	75	90	60	65	80	84
928481600092	-	-	-	70	75	90	60	65	80	84
928481600094	-	-	-	70	75	90	60	65	80	84
928481600095	-	-	-	70	75	90	60	65	80	84
928481600096	-	-	-	70	75	90	60	65	80	84
928483400191	-	-	-	70	75	90	60	65	80	84
928483500191	-	-	-	70	75	90	60	65	80	89

Light Technical (3/3)

order code	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928076109299	-	20500
928473709299	30000	35000
928481300092	18500	20500
928481300096	18500	20500
928481300097	18500	20500
928481300098	18500	20500
928481600092	30000	32000

order code	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928481600094	30000	32000
928481600095	30000	32000
928481600096	30000	32000
928483400191	18500	20500
928483500191	30000	32000

Light technical



Operating and Electrical

order code	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Nom)
928076109299	2.10	138	118	128	245.0
928473709299	3.4	135	115	125	390
928481300092	2.1	138	118	128	245
928481300096	2.1	138	118	128	245
928481300097	2.1	138	118	128	245
928481300098	2.1	138	118	128	245
928481600092	3.4	135	115	125	382
928481600094	3.4	135	115	125	382
928481600095	3.4	135	115	125	382
928481600096	3.4	135	115	125	382
928483400191	2.1	138	118	128	245
928483500191	3.4	135	115	125	382

Mechanical and Housing

order code	Bulb Finish
928076109299	Clear
928473709299	Clear
928481300092	Clear
928481300096	Clear
928481300097	Clear
928481300098	Clear
928481600092	Clear
928481600094	Clear
928481600095	Clear
928481600096	Clear
928483400191	Clear
928483500191	Clear

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928076109299	269	A+	33
928473709299	429	A+	-
928481300092	269	A+	36
928481300096	269	A+	36
928481300097	269	A+	36
928481300098	269	A+	36
928481600092	420	A+	29.5
928481600094	420	A+	29.5
928481600095	420	A+	29.5
928481600096	420	A+	29.5
928483400191	-	-	36
928483500191	420	-	29.5

Luminaire Design Requirements

order code	Bulb Temperature (Max)
928076109299	550
928473709299	600
928481300092	550
928481300096	550
928481300097	550
928481300098	550
928481600092	600
928481600094	600
928481600095	600
928481600096	600
928483400191	550
928483500191	600



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