



Optimized for lower temperatures and extra long life!

MASTER PL-L Xtra Polar 4 Pin

MASTER PL-L Xtra Polar is a medium to high-wattage linear compact fluorescent lamp, typically used for lower-temperature applications such as outdoor lighting and cold storage. MASTER PL-L Xtra Polar lamps furthermore provide significantly lower operating costs thanks to their lifetime, which is more than double that of a standard MASTER PL-L lamp, and their very low early failure rate. The original Philips-invented bridge technology guarantees optimum performance in the application, enabling more light and higher efficacy than the bended technology. It is designed for operation on electromagnetic as well as HF electronic gear and is provided with a plug-in/pull-out lamp base.

Benefits

- Less hassle and lower maintenance costs and facilitating the change from spot to group replacement
- Optimal light performance for short or long operation per switch-on for lower temperature applications
- Multiple light color choice
- Good color rendering (CRI >80)
- Dimming possible down to 30%

Features

- 4-pin base
- Fluorescent tri-phosphor technology
- Extra long lifetime and less early failures
- Low light depreciation over lamp life

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Application

- Residential areas, parks and squares, under canopies in storage and transport areas
- Cold indoor areas (e.g. warehouses, food cold stores)
- Light output at low temperatures can be increased even further by applying a transparent heat cap around the top of the lamp

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i.e. lamp ambient temperature and operating position as well as applied control gear
- Shorter lamp life when often switching and not well pre-heated electrodes
- 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.

Versions



24W, 2G11, 4P, Low Temperature



36W, 2G11, 4P, Low Temperature



55W, 2G11, 4P, Low Temperature

Dimensional drawing

Product	D (max)	D1 (max)	A (max)	B (max)	C (max)
MASTER PL-L XTRA POLAR 36W/830/4P 1CT/25	39.0 mm	18.0 mm	384.2 mm	410 mm	416.6 mm
MASTER PL-L XTRA POLAR 24W/830/4P 1CT/25	39.0 mm	18.0 mm	290 mm	315 mm	321.6 mm
MASTER PL-L XTRA POLAR 55W/830/4P 1CT/25	39.0 mm	18.0 mm	509.2 mm	535 mm	541.6 mm

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Approval and Application

Mercury (Hg) Content (Nom) 3.0 mg

Controls and Dimming

Dimmable Yes

General Information

Cap-Base 2G11
 Life To 50% Failures Preheat (Nom) 36000 h
 LSF Preheat 16000 h Rated 97 %
 LSF Preheat 20000 h Rated 94 %
 LSF Preheat 2000 h Rated 99 %
 LSF Preheat 4000 h Rated 99 %
 LSF Preheat 6000 h Rated 99 %
 LSF Preheat 8000 h Rated 99 %

Light Technical

Color Code 830
 Color Designation Warm White (WW)
 Correlated Color Temperature (Nom) 3000 K

Temperature

Design Temperature (Nom) 18 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)
927907683015	MASTER PL-L XTRA POLAR 24W/830/4P 1CT/25	25 kWh	3 mg
927907783015	MASTER PL-L XTRA POLAR 36W/830/4P 1CT/25	37 kWh	3 mg
927908983015	MASTER PL-L XTRA POLAR 55W/830/4P 1CT/25	61 kWh	-

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927907683015	MASTER PL-L XTRA POLAR 24W/ 830/4P 1CT/25	0.345 A	24.3 W
927907783015	MASTER PL-L XTRA POLAR 36W/ 830/4P 1CT/25	0.445 A	36.3 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927908983015	MASTER PL-L XTRA POLAR 55W/ 830/4P 1CT/25	0.550 A	55.0 W

General Information (1/2)

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 50% Failures (Nom)	LSF 12000 h Rated	LSF 16000 h Rated
927907683015	MASTER PL-L XTRA POLAR 24W/830/4P 1CT/25	14000 h	21000 h	95 %	88 %
927907783015	MASTER PL-L XTRA POLAR 36W/830/4P 1CT/25	14000 h	21000 h	95 %	88 %

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 50% Failures (Nom)	LSF 12000 h Rated	LSF 16000 h Rated
927908983015	MASTER PL-L XTRA POLAR 55W/830/4P 1CT/25	-	-	-	-

General Information (2/2)

Order Code	Full Product Name	LSF 2000 h Rated	LSF 20000 h Rated	LSF 4000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated	System Description
927907683015	MASTER PL-L XTRA POLAR 24W/830/4P 1CT/25	99 %	58 %	99 %	98 %	97 %	-

MASTER PL-L Xtra Polar 4 Pin

Order Code	Full Product Name	LSF 2000 h	LSF 20000 h	LSF 4000 h	LSF 6000 h	LSF 8000 h	System Description
		Rated	Rated	Rated	Rated	Rated	
927907783015	MASTER PL-L XTRA POLAR 36W/830/4P 1CT/25	99 %	58 %	99 %	98 %	97 %	-
927908983015	MASTER PL-L XTRA POLAR 55W/830/4P 1CT/25	-	-	-	-	-	High Frequency

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color	
				Rendering Index (Nom)	LLMF 12000 h Rated
927907683015	MASTER PL-L XTRA POLAR 24W/830/4P 1CT/25	0.44	0.403	82	90 %
927907783015	MASTER PL-L XTRA POLAR	0.44	0.403	82	90 %

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color	
				Rendering Index (Nom)	LLMF 12000 h Rated
927908983015	MASTER PL-L XTRA POLAR 55W/830/4P 1CT/25	-	-	>80	91 %

Light Technical (2/2)

Order Code	Full Product Name	LLMF		LLMF			Luminous			
		16000 h Rated	20000 h Rated	LLMF 2000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927907683015	MASTER PL-L XTRA POLAR 24W/830/4P 1CT/25	89 %	94 %	88 %	93 %	92 %	91 %	75 lm/W	1800 lm	1800 lm
927907783015	MASTER PL-L XTRA POLAR 36W/830/4P 1CT/25	89 %	94 %	88 %	93 %	92 %	91 %	81 lm/W	2800 lm	2900 lm
927908983015	MASTER PL-L XTRA POLAR 55W/830/4P 1CT/25	90 %	95 %	90 %	94 %	93 %	92 %	87 lm/W	4800 lm	4800 lm

