



MASTER PL-L 4 Pin

MASTER PL-L 80W/840/4P 1CT

MASTER PL-L is a medium to high-wattage linear compact fluorescent lamp, typically used for general-illumination ceiling luminaires in retail, hospitality and office applications demanding higher lighting levels. 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 electronic HF control gear and is provided with a plug-in/pull-out lamp base.

Product data

• General Characteristics

System Description	High Frequency [High Frequency]
Cap-Base	2G11
Cap-Base Information	4P
Life to 50% fail	20000 hr
Preheat EL,3h	
Life to 50% fail	10000 hr
Nonpreh EL,3h	
Life to 10% fail	7500 hr
Nonpreh EL,3h	
Life to 10% fail	14000 hr
Preheat EL,3h	
LSF HF Preheat	50 %
20000h Rated,3h	
LSF HF Preheat	82 %
16000h Rated,3h	
LSF HF Preheat	94 %
12000h Rated,3h	
LSF HF Preheat	97 %
8000h Rated,3h	
LSF HF Preheat	98 %
6000h Rated,3h	
LSF HF Preheat	99 %
4000h Rated,3h	
LSF HF Preheat	99 %
2000h Rated,3h	

• Light Technical Characteristics

Color Code	840 [CCT of 4000K]
Color Rendering Index	82 Ra8
Color Designation (text)	Cool White
Color Temperature	4000 K
Chromaticity Coordinate X	380 -

Chromaticity Coordinate Y	380 -
LLMF HF 20000h Rated	90 %
LLMF HF 16000h Rated	90 %
LLMF HF 12000h Rated	91 %
LLMF HF 8000h Rated	92 %
LLMF HF 6000h Rated	93 %
LLMF HF 4000h Rated	94 %
LLMF HF 2000h Rated	95 %
Luminous Flux EL 25°C, Rated	6000 Lm
Luminous Flux EL 25°C, Nominal	6000 Lm
Lum Flux Rated HF 25°C,horiz	6000 Lm
Lum Flux Nominal HF 25°C,horiz	6000 Lm
Lum Efficacy Rated HF 25°C,hor	75 Lm/W
Design Temperature	30 C

• Electrical Characteristics

Lamp Wattage	80 W
Lamp Voltage EL 25°C	145 V
Lamp Current EL 25°C	0.555 A
Dimmable	Yes



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Lamp Wattage EL 25°C, Rated	80.0 W
Lamp Wattage EL 25°C, Nominal	80 W

Diameter D	37.7 (max) mm
Diameter D1	18 (max) mm

• Environmental Characteristics

Energy Efficiency Label (EEL)	B
Mercury (Hg) Content	2.0 mg

• Measuring Conditions

• Product Dimensions

Base Face to Base Face A	539.2 (max) mm
Insertion Length B	565 (max) mm
Overall Length C	571.6 (max) mm

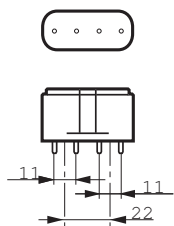
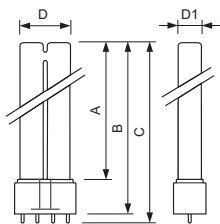
• Product Data

Order code	867124 40
Full product code	871150086712440
Full product name	MASTER PL-L 80W/840/4P 1CT
Order product name	MASTER PL-L 80W/840/4P 1CT/25
Pieces per pack	1
Packing configuration	25
Packs per outerbox	25
Bar code on pack - EAN1	8711500867124
Bar code on outerbox - EAN3	8711500867131
Logistic code(s) - 12NC	927909584070
ILCOS code	FSDH-80/40/1B-L/P-2G11
Net weight per piece	140.000 gr

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

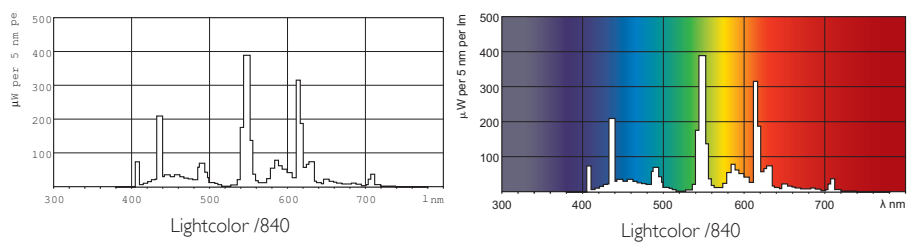
Dimensional drawing



2G11, 4P

Product	A (Max)	B (Max)	C (Max)	D (Max)	D1 (Max)
PL-L 80W/840/4P HF	539.2	565	571.6	37.7	18

Photometric data



Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 – Ecodesign requirements, applicable from 13 April 2010.

1.3 Product information requirements on lamps

- a) Nominal and rated lamp wattage;
 - b) Nominal and rated lamp luminous flux;
 - c) Rated lamp efficacy at 100 h in standard conditions (25 °C, for T5 lamps at 35 °C). For fluorescent lamps both at 50 Hz (mains frequency) operation (where applicable) and at High Frequency (> 50 Hz) operation (where applicable) for the same rated luminous flux in all cases, indicating for High Frequency operation the calibration current of the test conditions and/or the rated voltage of the HF generator with the resistance. It shall be stated in a conspicuous manner that the power dissipated by auxiliary equipment such as ballasts is not included in the power consumed by the source;
 - d) Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
 - e) Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
 - f) Lamp mercury content as X.X mg;
 - g) Colour Rendering Index (Ra) of the lamp;
 - h) Colour temperature of the lamp;
 - i) Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room temperatures;
 - j) For fluorescent lamps without integrated ballast, the energy efficiency index(es) of ballasts as defined in Table 17 with which the lamp can operate.
- See Table 17-EuP245.pdf for Table 17 – Energy efficiency index requirements for non-dimmable ballasts for fluorescent lamps.
For more information see: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:076:0017:0044:EN:PDF>



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www.philips.com/lighting

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data subject to change