



# MASTER PL-L Polar 4 Pin

MASTER PL-L Polar 55W/840/4P 1CT

Energy-saving compact fluorescent lamps Compact long-arc low-pressure mercury discharge lamp Envelope consists of two parallel fluorescent tubes linked by a bridge 4-pin base without gear

## Product data

### • Product Data

Order code	927931584070
Full product code	927931584070
Full product name	MASTER PL-L Polar 55W/840/4P 1CT
Order product name	MASTER PL-L Polar 55W/840/4P 1CT/25
Pieces per pack	1
Packing configuration	25
Packs per outerbox	25
Bar code on pack - EAN1	8711500261649
Bar code on outerbox - EAN3	8711500261656
Logistic code(s) - 12NC	927931584070
ILCOS code	FSDH-55/40/1B-L/P-2G11
Net weight per piece	134.000 gr

### • General Characteristics

System Description	High Frequency [High Frequency]
Cap-Base	2G11
Cap-Base Information	4P
Main Application	Low Temperature [Low Temperature environment]
Life to 50% fail Preheat EL,3h	20000 hr
Life to 50% fail Nonpreh EL,3h	10000 hr
Life to 10% fail Nonpreh EL,3h	7500 hr
Life to 10% fail Preheat EL,3h	14000 hr
LSF HF Preheat 20000h Rated,3h	50 %

LSF HF Preheat 12000h Rated,3h	94 %
LSF HF Preheat 8000h Rated,3h	97 %
LSF HF Preheat 6000h Rated,3h	98 %
LSF HF Preheat 4000h Rated,3h	99 %
LSF HF Preheat 2000h Rated,3h	99 %
LSF HF Preheat 16000h Rated,3h	82 %

### • Electrical Characteristics

Lamp Wattage	55 W
Lamp Voltage EL 25°C	100 V
Lamp Current EL 25°C	0.550 A
Dimmable	Yes
Lamp Wattage EL 25°C, Rated	55.0 W
Lamp Wattage EL 25°C, Nominal	55 W

### • Environmental Characteristics

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

### • Light Technical Characteristics

Color Code	840 [CCT of 4000K]
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Color Rendering Index	82 Ra8
Color Designation (text)	Cool White
Color Temperature	4000 K
Chromaticity Coordinate X	385 -
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	4800 Lm

Luminous Flux EL 25°C, Nominal	4800 Lm
Lum Flux Rated HF 25°C,horiz	4800 Lm
Lum Flux Nominal HF 25°C,horiz	4800 Lm
Lum Efficacy Rated HF 25°C,hor	87 Lm/W
Design Temperature	18 C

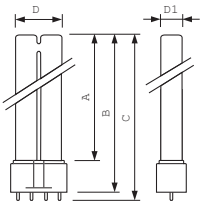
• Product Dimensions

Base Face to Base Face A	510 mm
Insertion Length B	535 mm
Overall Length C	541.6 mm
Diameter D	37.7 mm
Diameter D1	18 mm

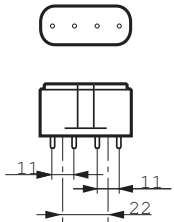
• Measuring Conditions

Calibration Current	0.550 A
HF Generator Rated Voltage	202 V
Resistor	185 ohm

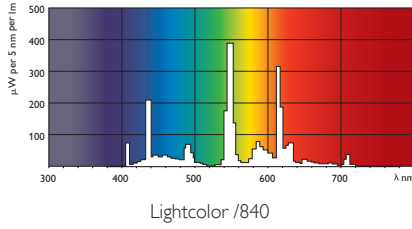
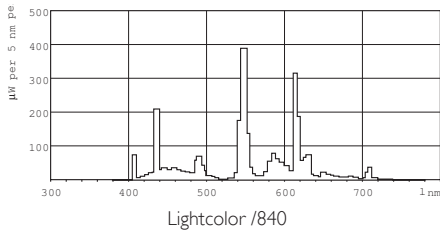
## Dimensional drawing



Product	A (Max)	B (Max)	C (Max)	D (Max)	D1 (Max)
PL-L 55W/840/4P LT HF	510	535	541.6	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

- Nominal and rated lamp wattage;
- Nominal and rated lamp luminous flux;
- 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;
- 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;
- 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;
- Lamp mercury content as X.X mg;
- Colour Rendering Index (Ra) of the lamp;
- Colour temperature of the lamp;
- 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;
- 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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2011, January 14  
data subject to change