MASTER PL-R Eco 4 Pin

MASTER PL-R Eco 17W/830/4P 1CT

MASTER PL-R Eco is an extremely efficient compact fluorescent lamp for downlight applications. It consists of six parallel tubes with a new innovative 'twist and lock' lamp base, designed for operation with electronic gear. The MASTER PL-R Eco contains the original bridge technology invented and patented by Philips. This guarantees optimum performance in the application and results in significantly higher efficacies than with regular compact fluorescent lamps. On top of that, MASTER PL-R Eco lamps offer more than double the service life of a standard compact fluorescent lamp, thanks to superior lumen maintenance. The 'twist and lock' lamp base provides easy and safe (dis-)mounting and sturdy fixation in the luminaire.

Product data

• General Characteristics

Cap-Base	GR14q-1
Cap-Base Information	4P
Life to 50% fail Preheat EL,3h	24000 hr
Life to 50% fail Nonpreh EL,3h	12000 hr
Life to 10% fail Nonpreh EL,3h	10000 hr
Life to 10% fail Preheat EL,3h	19000 hr
LSF HF Preheat 20000h Rated,3h	87 %
LSF HF Preheat 16000h Rated,3h	94 %
LSF HF Preheat 12000h Rated,3h	97 %
LSF HF Preheat 8000h Rated,3h	98 %
LSF HF Preheat 6000h Rated,3h	99 %
LSF HF Preheat 4000h Rated,3h	99 %
LSF HF Preheat 2000h Rated,3h	99 %

• Electrical Characteristics

Lamp Wattage	17 W
Dimmable	Yes
Lamp Wattage EL 35°C base up	18 W
Lamp Voltage EL 25°C base up	120 V
Lamp Current EL 25°C base up	0.150 A
Wattage EL 25°C base up,Rated	17.8 W
Wattage EL 25°C base up, Nom.	17 W

• Environmental Characteristics

Energy Efficiency Label (EEL)	A
Mercury (Hg) Content	1.4 mg

• Light Technical Characteristics

Color Code	830 [CCT of 3000K]
Color Rendering Index	82 Ra8
Color Designation (text)	Warm White
Color Temperature	3000 K
Chromaticity Coordinate X	441 -
Chromaticity Coordinate Y	401 -
Luminous Flux EL 35°C base up	1500 Lm
Lum Efficacy Rated HF 25°C	70 Lm/W
LLMF HF 20000h Rated	89 %
LLMF HF 16000h Rated	90 %
LLMF HF 12000h Rated	91 %
LLMF HF 8000h Rated	92 %

MASTER PL-R Eco 4 Pin

LLMF HF 6000h Rated	93 %
LLMF HF 4000h Rated	94 %
LLMF HF 2000h Rated	96 %
Lum Flux Rated HF 25°C,base up	1250 Lm
Design Temperature	35 C
Lum Flux Nom. HF 25°C,base up	1250 Lm

- Product Dimensions

Base Face to Base Face A	121.7 (max) mm
Insertion Length B	142.0 (max) mm
Overall Length C	148.6 (max) mm
Diameter D	41.0 (max) mm

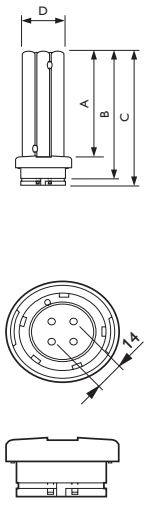
- Product Data

Order code	927910083050
Full product code	927910083050
Full product name	MASTER PL-R Eco 17W/830/4P 1CT
Order product name	MASTER PL-R Eco 17W/830/4P 1CT/ 5X10BOX
Pieces per pack	1
Packing configuration	5X10CC
Packs per outerbox	50
Bar code on pack - EAN1	8711500266019
Bar code on inter-mediate packing - EAN2	8711500266026
Bar code on outerbox - EAN3	8711500266033
Logistic code(s) - 12NC	927910083050
ILCOS code	FSM6H-17/30/1B-L/P-GR14q=1
Net weight per piece	83.000 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 applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes

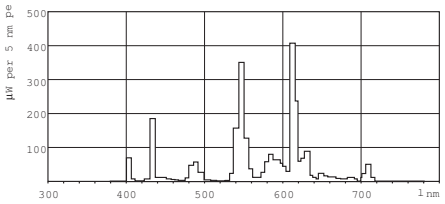
Dimensional drawing



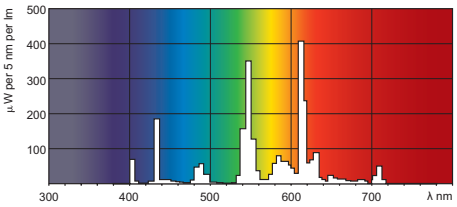
Product	A (Max)	B (Max)	C (Max)	D (Max)
PL-R 17W/830/4P	121.7	142.0	148.6	41.0

MASTER PL-R Eco 4 Pin

Photometric data



Lightcolor /830



Lightcolor /830

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

www.philips.com/lighting

2011, August 25
data subject to change