

# The ultimate Saver!

## MASTER PL-R Eco 4 Pin

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.

### Benefits

- Up to 50% less energy consumption in application versus 18 and 26W PL-C/T on electromagnetic ballasts for comparable lighting levels
- Up to 25% less energy consumption in application versus 18 and 26W PL-C/T on electronic drivers for comparable lighting levels
- Easy lamp (re-)placement and stable fixation due to new twist and lock lampbase / holder
- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Dimming possible down to 10 %

### Features

- Twist and lock 4-pin lamp base GR14q-1 without starter and capacitor
- Maximum light output reached at approximately 35-40 °C in free-burning base-up position
- Fluorescent tri-phosphor technology
- Extra long lifetime and less early failures
- Very low light depreciation over lamp life
- Service lifetime of 19000 hours

# MASTER PL-R Eco 4 Pin

## Application

- Designed for general down-lighting in (semi-)professional indoor applications: offices, retail, hospitals, governmental and public buildings
- Ideal for use in recessed or surface mounted downlighters, wall units
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

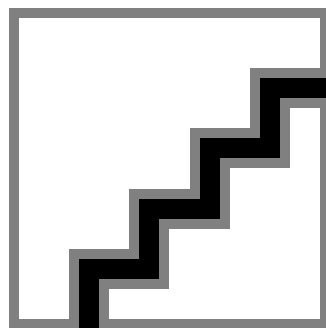
## Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i.e. lamp ambient temperature and operating position as well as applied HF 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

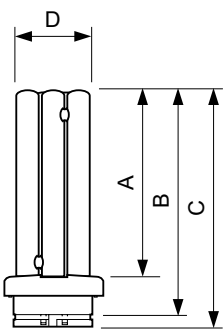


14W, GR14q-1, 4P



17W, GR14q-1, 4P

## Dimensional drawing



Product	D (max)	A (max)	B (max)	C (max)
MASTER PL-R Eco 17W/840/4P 1CT/ 5X10BOX	41.0 mm	121.7 mm	142.0 mm	148.6 mm
MASTER PL-R Eco 14W/830/4P 1CT/ 5X10BOX	41.0 mm	99.7 mm	120.0 mm	126.6 mm
MASTER PL-R Eco 14W/840/4P 1CT/ 5X10BOX	41.0 mm	99.7 mm	120.0 mm	126.6 mm
MASTER PL-R Eco 17W/830/4P 1CT/ 5X10BOX	41.0 mm	121.7 mm	142.0 mm	148.6 mm

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## Approval and Application

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

## Controls and Dimming

Dimmable	Yes
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## Operating and Electrical

Lamp Current (Nom)	0.150 A
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## General Information

Cap-Base	GR14Q-1
Life To 50% Failures Preheat (Nom)	24000 h
LSF Preheat 16000 h Rated	94 %
LSF Preheat 20000 h Rated	87 %
LSF Preheat 2000 h Rated	99 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	98 %

## Light Technical

LLMF 12000 h Rated	91 %
LLMF 16000 h Rated	90 %
LLMF 2000 h Rated	96 %
LLMF 20000 h Rated	89 %
LLMF 4000 h Rated	94 %
LLMF 6000 h Rated	93 %
LLMF 8000 h Rated	92 %

## Temperature

Design Temperature (Nom)	35 °C
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## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927909983050	MASTER PL-R Eco 14W/830/4P 1CT/5X10BOX	17 kWh
927909984050	MASTER PL-R Eco 14W/840/4P 1CT/5X10BOX	17 kWh
927910083050	MASTER PL-R Eco 17W/830/4P 1CT/5X10BOX	20 kWh
927910084050	MASTER PL-R Eco 17W/840/4P 1CT/5X10BOX	20 kWh

## Operating and Electrical

Order Code	Full Product Name	Power (Rated) (Nom)
927909983050	MASTER PL-R Eco 14W/830/4P 1CT/5X10BOX	14.5 W
927909984050	MASTER PL-R Eco 14W/840/4P 1CT/5X10BOX	14.5 W

Order Code	Full Product Name	Power (Rated) (Nom)
927910083050	MASTER PL-R Eco 17W/830/4P 1CT/5X10BOX	17.8 W
927910084050	MASTER PL-R Eco 17W/840/4P 1CT/5X10BOX	17.8 W

## Light Technical (1/2)

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)
927909983050	MASTER PL-R Eco 14W/830/4P 1CT/5X10BOX	830	Warm White (WW)	3000 K	>80
927909984050	MASTER PL-R Eco 14W/840/4P 1CT/5X10BOX	840	Cool White (CW)	4000 K	82

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)
927910083050	MASTER PL-R Eco 17W/830/4P 1CT/5X10BOX	830	Warm White (WW)	3000 K	>80
927910084050	MASTER PL-R Eco 17W/840/4P 1CT/5X10BOX	840	Cool White (CW)	4000 K	82

# MASTER PL-R Eco 4 Pin

## Light Technical (2/2)

Order Code	Full Product Name	Luminous			
		Efficacy (@ Max Lumen, Rated)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927909983050	MASTER PL-R Eco 14W/ 830/4P 1CT/ 5X10BOX	80 lm/W	72 lm/W	1050 lm	1050 lm
927909984050	MASTER PL-R Eco 14W/ 840/4P 1CT/ 5X10BOX	80 lm/W	72 lm/W	1200 lm	1050 lm
927910083050	MASTER PL-R Eco 17W/	81 lm/W	70 lm/W	1500 lm	1250 lm

Order Code	Full Product Name	Luminous			
		Efficacy (@ Max Lumen, Rated)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927910084050	MASTER PL-R Eco 17W/ 840/4P 1CT/ 5X10BOX	81 lm/W	70 lm/W	1500 lm	1250 lm

