



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

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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



MASTER PL-R Eco 4 Pin

Approval and Application

| | |
|----------------------------|--------|
| Mercury (Hg) Content (Max) | 1.4 mg |
| Mercury (Hg) Content (Nom) | 1.4 mg |

Controls and Dimming

| | |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

Operating and Electrical

| | |
|--------------------|---------|
| Lamp Current (Nom) | 0.150 A |
|--------------------|---------|

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

| | |
|-------------------------------------|-----------------|
| Chromaticity Coordinate X (Nom) | 0.38 |
| Chromaticity Coordinate Y (Nom) | 0.38 |
| Colour Code | 840 |
| Colour Designation | Cool White (CW) |
| Correlated Colour Temperature (Nom) | 4000 K |
| Colour Rendering Index (Nom) | 80 |
| 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 |
|--------------------------|-------|

Approval and Application

| Order Code | Full Product Name | Energy Consumption kWh/1000 h |
|--------------|--|-------------------------------|
| 927909984050 | MASTER PL-R Eco 14W/840/4P 1CT/5X10BOX | 15 kWh |
| 927910084050 | MASTER PL-R Eco 17W/840/4P 1CT/5X10BOX | 18 kWh |

Operating and Electrical

| Order Code | Full Product Name | Power (Rated) (Nom) |
|--------------|--|---------------------|
| 927909984050 | MASTER PL-R Eco 14W/840/4P 1CT/5X10BOX | 14.7 W |

| Order Code | Full Product Name | Power (Rated) (Nom) |
|--------------|--|---------------------|
| 927910084050 | MASTER PL-R Eco 17W/840/4P 1CT/5X10BOX | 17.7 W |

Light Technical

| Order Code | Full Product Name | Luminous | Luminous | Luminous |
|--------------|---|---|------------------------------|--------------------------|
| | | Efficacy (@ Max Lumen, Rated) (Max) | Efficacy (rated) (Nom) | Flux (Rated) (Nom) |
| 927909984050 | MASTER PL-R Eco 14W/ 840/4P 1CT/ 5X10BOX | 80 lm/W | 72 lm/W | 1000 lm 1050 lm |

| Order Code | Full Product Name | Luminous | Luminous | Luminous |
|--------------|---|---|------------------------------|--------------------------|
| | | Efficacy (@ Max Lumen, Rated) (Max) | Efficacy (rated) (Nom) | Flux (Rated) (Nom) |
| 927910084050 | MASTER PL-R Eco 17W/840/4P 1CT/ 5X10BOX | 80 lm/W | 72 lm/W | 1000 lm 1050 lm |

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| Order Code | Full Product Name | Luminous | Luminous | Luminous | |
|--------------|----------------------|--------------|----------|------------|---------|
| | | Efficacy (@ | Efficacy | Flux | Flux |
| | | Max Lumen, | (rated) | Luminous | (Rated) |
| | | Rated) (Max) | (Nom) | Flux (Nom) | (Nom) |
| 927910084050 | MASTER PL-R Eco 17W/ | 81 lm/W | 70 lm/W | 1200 lm | 1250 lm |

| Order Code | Full Product Name | Luminous | Luminous | Luminous | |
|------------|------------------------|--------------|----------|------------|---------|
| | | Efficacy (@ | Efficacy | Flux | Flux |
| | | Max Lumen, | (rated) | Luminous | (Rated) |
| | | Rated) (Max) | (Nom) | Flux (Nom) | (Nom) |
| | 840/4P 1CT/ 5X10BOX | | | | |

