



# MASTER TL5 High Output Eco

MASTER TL5 HO Eco 50=54W/840 UNP

This extremely efficient TL5 lamp (tube diameter 16 mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HO Eco lamp is optimized for installations requiring high light output and offers excellent lumen maintenance and colour rendering. Application areas vary from offices and industry to schools and retail environments.

## Product data

### • General Characteristics

|                  |            |
|------------------|------------|
| Cap-Base         | G5         |
| Bulb             | T5 [16 mm] |
| Life to 10% fail | 21000 hr   |
| Preheat EL,3h    |            |
| Life to 50% fail | 30000 hr   |
| Preheat EL,3h    |            |
| LSF HF Preheat   | 99 %       |
| 2000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 4000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 6000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 8000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 12000h Rated,3h  |            |
| LSF HF Preheat   | 99 %       |
| 16000h Rated,3h  |            |
| LSF HF Preheat   | 94 %       |
| 20000h Rated,3h  |            |

|                           |          |
|---------------------------|----------|
| Lum Efficacy Rated        | 102 Lm/W |
| HF 35°C                   |          |
| LLMF HF 2000h             | 96 %     |
| Rated                     |          |
| LLMF HF 4000h             | 95 %     |
| Rated                     |          |
| LLMF HF 6000h             | 94 %     |
| Rated                     |          |
| LLMF HF 8000h             | 93 %     |
| Rated                     |          |
| LLMF HF 12000h            | 92 %     |
| Rated                     |          |
| LLMF HF 16000h            | 91 %     |
| Rated                     |          |
| LLMF HF 20000h            | 90 %     |
| Rated                     |          |
| Design Temperature        | 35 C     |
| Chromaticity Coordinate X | 380 -    |
| Chromaticity Coordinate Y | 380 -    |

### • Light Technical Characteristics

|                            |                                  |
|----------------------------|----------------------------------|
| Colour Code                | 840 [CCT of 4000K]               |
| Colour Rendering Index     | 80 (min), 85 (nom), 85 (max) Ra8 |
| Colour Designation         | Cool White                       |
| Colour Temperature         | 4000 K                           |
| Luminous Flux EL           | 4450 Lm                          |
| 25°C, Rated                |                                  |
| Luminous Flux EL           | 4450 Lm                          |
| 25°C, Nominal              |                                  |
| Luminous Flux Lamp EL 35°C | 5000 Lm                          |
| Lum Efficacy Rated         | 93 Lm/W                          |
| HF 25°C                    |                                  |

### • Electrical Characteristics

|                 |         |
|-----------------|---------|
| Lamp Wattage    | 50 W    |
| Lamp Wattage EL | 48 W    |
| 25°C, Rated     |         |
| Lamp Wattage EL | 50 W    |
| 25°C, Nominal   |         |
| Lamp Wattage EL | 48.9 W  |
| 35°C            |         |
| Lamp Voltage EL | 105 V   |
| 25°C            |         |
| Lamp Voltage EL | 107 V   |
| 35°C            |         |
| Lamp Current EL | 0.460 A |
| 25°C            |         |



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Lamp Current EL 0.460 A  
35°C  
Dimmable yes

Insertion Length B 1153.7 (min), 1156.1 (max) mm  
Overall Length C 1163.2 (max) mm  
Diameter D 17 (max) mm

## • Environmental Characteristics

Energy Efficiency Label (EEL) A+  
Mercury (Hg) Content 1.4 mg  
Energy consumption kWh/1000h 54 kWh

## • Measuring Conditions

Calibration Current 0.460 A  
HF Generator Rated Voltage 222 V  
Resistor 255 ohm

## • Product Dimensions

Base Face to Base Face A 1149.0 (max) mm

## • Product Data

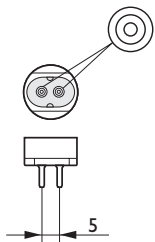
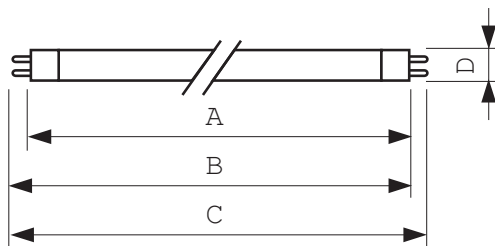
Order code 825916 00  
Full product code 872790082591600  
Full product name MASTER TL5 HO Eco 50=54W/840 UNP  
Order product name MASTER TL5 HO Eco 50=54W/840 UNP/40  
Pieces per pack 1  
Packing configuration 40  
Packs per outerbox 40  
Bar code on pack - EAN1 8711500880055  
Bar code on outerbox - EAN3 8727900825916  
Logistic code(s) - 12NC 927991284031  
ILCOS code FDH-50/40/1B-L/P-G5-16/1150  
Net weight per piece 104.500 gr

## Warnings and Safety

- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.

- 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.

## Dimensional drawing

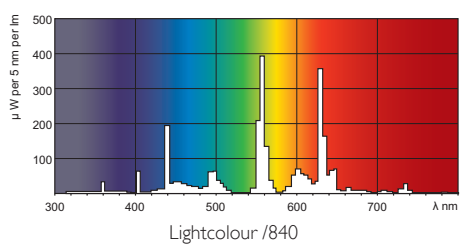
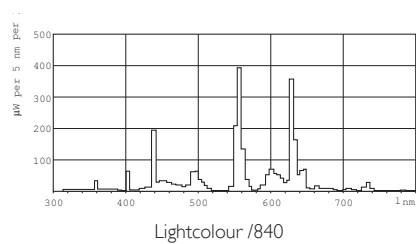


G5

## MASTER TL5 HO Eco 50=54W/840 UNP

| Product               | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|-----------------------|---------|---------|---------|---------|---------|
| TL5 HO Eco 50=54W/840 | 1149.0  | 1153.7  | 1156.1  | 1163.2  | 17      |

## Photometric data



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data subject to change