



MASTER TL5 High Efficiency Eco

MASTER TL5 HE Eco 13=14W/840 UNP

This extremely efficient TL5 lamp (tube diameter 16 mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HE Eco lamp 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	25000 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	

• Light Technical Characteristics

Colour Code	840 [CCT of 4000K]
Colour Rendering Index	85 Ra8
Colour Designation	Cool White
Colour Temperature	4000 K
Luminous Flux EL	1150 Lm
25°C, Rated	
Luminous Flux EL	1150 Lm
25°C, Nominal	
Luminous Flux Lamp EL 35°C	1350 Lm
Lum Efficacy Rated	92 Lm/W
HF 25°C	

Lum Efficacy Rated	104 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 -

• Electrical Characteristics

Lamp Wattage	13 W
Lamp Wattage EL	12.5 W
25°C, Rated	
Lamp Wattage EL	12.5 W
25°C, Nominal	
Lamp Wattage EL	12.5 W
35°C	
Lamp Voltage EL	74 V
25°C	
Lamp Voltage EL	75 V
35°C	
Lamp Current EL	0.170 A
25°C	



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Lamp Current EL 0.170 A
 35°C
 Dimmable yes

Insertion Length B 553.7 (min), 556.1 (max) mm
 Overall Length C 563.2 (max) mm
 Diameter D 17 (max) mm

• Environmental Characteristics

Energy Efficiency Label (EEL) A+
 Mercury (Hg) Content 1.4 mg
 Energy consumption kWh/1000h 14

• Measuring Conditions

Calibration Current 0.170 A
 HF Generator Rated Voltage 159 V
 Resistor 500 ohm

• Product Dimensions

Base Face to Base Face A 549.0 (max) mm

• Product Data

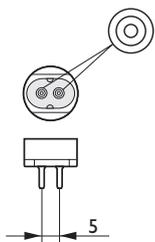
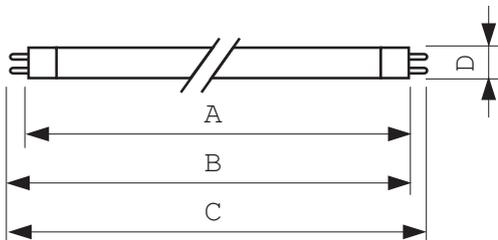
Order code 880830 00
 Full product code 872790088083000
 Full product name MASTER TL5 HE Eco 13=14W/840 UNP
 Order product name MASTER TL5 HE Eco 13=14W/840 UNP/40
 Pieces per pack 1
 Packing configuration 40
 Packs per outerbox 40
 Bar code on pack - EAN1 8711500881298
 Bar code on outerbox - EAN3 8727900880830
 Logistic code(s) - 12NC 927989884031
 ILCOS code FDH-13/40/1B-L/P-G5-16/550
 Net weight per piece 53.000 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.

Dimensional drawing

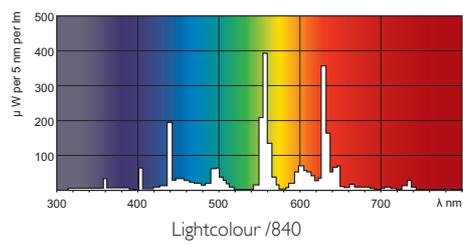
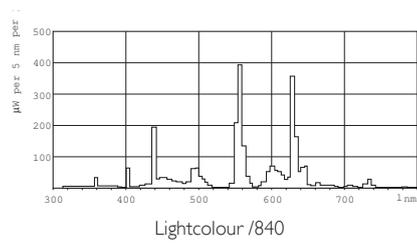


G5

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Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HE Eco 13=14W/840	549.0	553.7	556.1	563.2	17

Photometric data



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data subject to change