



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 color 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

Color Code	840 [CCT of 4000K]
Color Rendering Index	85 Ra8
Color Designation (text)	Cool White
Color Temperature	4000 K
Luminous Flux EL 25°C, Rated	1150 Lm
Luminous Flux EL 25°C, Nominal	1150 Lm
Luminous Flux Lamp EL 35°C	1350 Lm

Lum Efficacy Rated HF 25°C	91 Lm/W
Lum Efficacy Rated HF 35°C	108 Lm/W
LLMF HF 2000h Rated	96 %
LLMF HF 4000h Rated	95 %
LLMF HF 6000h Rated	94 %
LLMF HF 8000h Rated	93 %
LLMF HF 12000h Rated	92 %
LLMF HF 16000h Rated	91 %
LLMF HF 20000h Rated	90 %
Design Temperature	35 C
Chromaticity Coordinate X	380 -
Chromaticity Coordinate Y	380 -

• Electrical Characteristics

Lamp Wattage	13 W
Lamp Wattage EL 25°C, Rated	12.6 W
Lamp Wattage EL 25°C, Nominal	12 W
Lamp Wattage EL 35°C	12.5 W
Lamp Voltage EL 25°C	69 V
Lamp Voltage EL 35°C	75 V



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MASTER TL5 High Efficiency Eco

Lamp Current EL 25°C	0.185 A
Lamp Current EL 35°C	0.170 A
Dimmable	Yes

• Environmental Characteristics

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

• Measuring Conditions

Calibration Current	0.170 A
HF Generator Rated Voltage	160 V
Resistor	500 ohm

• Product Dimensions

Base Face to Base Face A	549.0 (max) mm
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Insertion Length B	553.7 (min), 556.1 (max) mm
Overall Length C	563.2 (max) mm
Diameter D	17 (max) mm

• Product Data

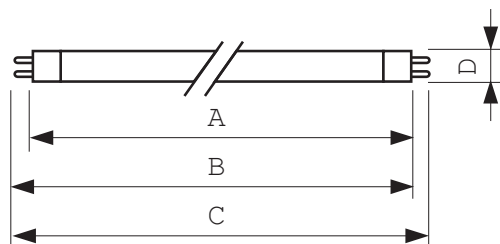
Order code	927989884031
Full product code	927989884031
Full product name	MASTER TL5 HE Eco 13=14W/840 UNP
Order product name	MASTER TL5 HE Eco 13=14W/840 UNP/40
Pieces per pack	1
Packing configuration	40
Packs per outerbox	40
Bar code on pack - EAN1	8711500881298
Bar code on outerbox - EAN3	8727900880830
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.

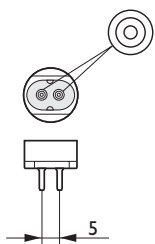
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.

Dimensional drawing



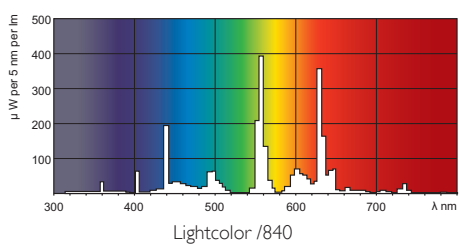
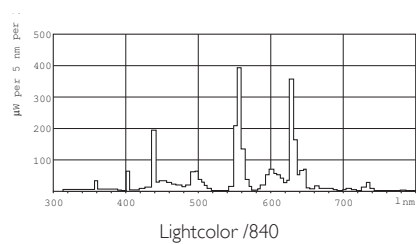
13=14W/841 T5

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



G5

Photometric data



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data subject to change