



MASTER TL5 High Output Eco

MASTER TL5 HO Eco 45=49W/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	

• Light Technical Characteristics

Colour Code	840 [CCT of 4000K]
Colour Rendering Index	80 (min), 82 (nom), 85 (max) Ra8
Colour Designation	Cool White
Colour Temperature	4000 K
Luminous Flux EL	4100 Lm
25°C, Rated	
Luminous Flux EL	4100 Lm
25°C, Nominal	
Luminous Flux Lamp	4900 Lm
EL 35°C	
Lum Efficacy Rated	92 Lm/W
HF 25°C	

Lum Efficacy Rated	108 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	45 W
Lamp Wattage EL	44.6 W
25°C, Rated	
Lamp Wattage EL	45.0 W
25°C, Nominal	
Lamp Wattage EL	45.3 W
35°C	
Lamp Voltage EL	173 V
25°C	
Lamp Voltage EL	176 V
35°C	
Lamp Current EL	0.260 A
25°C	



MASTER TL5 High Output Eco

Lamp Current EL 0.260 A
 35°C
 Dimmable yes

Insertion Length B 1453.7 (min), 1456.1 (max) mm
 Overall Length C 1463.2 (max) mm
 Diameter D 17 (max) mm

• Environmental Characteristics

Energy Efficiency Label (EEL) A+
 Mercury (Hg) Content 1.4 mg
 Energy consumption kWh/1000h 50

• Measuring Conditions

Calibration Current 0.255 A
 HF Generator Rated Voltage 372 V
 Resistor 765 ohm

• Product Dimensions

Base Face to Base Face A 1449.0 (max) mm

• Product Data

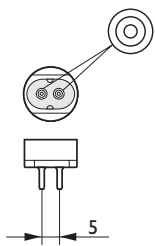
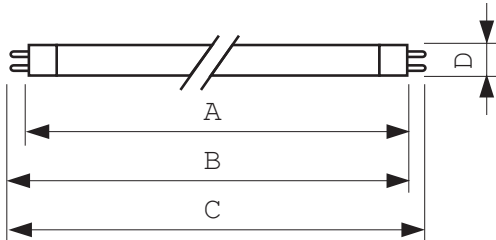
Order code 825954 00
 Full product code 872790082595400
 Full product name MASTER TL5 HO Eco 45=49W/840 UNP
 Order product name MASTER TL5 HO Eco 45=49W/840 UNP/40
 Pieces per pack 1
 Packing configuration 40
 Packs per outerbox 40
 Bar code on pack - EAN1 8711500880079
 Bar code on outerbox - EAN3 8727900825954
 Logistic code(s) - 12NC 927991784031
 ILCOS code FDH-45/40/1B-L/P-G5-16/1450
 Net weight per piece 128.700 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

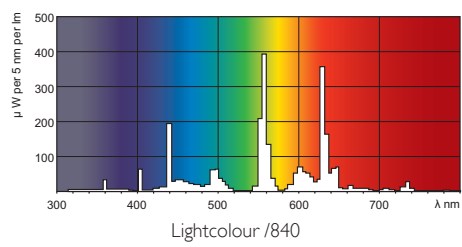
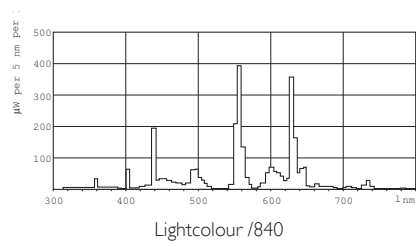


G5

MASTER TL5 HO Eco 45=49W/840 UNP

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HO Eco 45=49W/840	1449.0	1453.7	1456.1	1463.2	17

Photometric data



© 2014 Koninklijke Philips N.V. (Royal Philips)
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

www.philips.com/lighting

2014, October 22
data subject to change