

MASTER TL5 High Output Eco

MASTER TL5 HO Eco 45=49W/830 UNP

This extremely efficient TL5 lamp (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 color rendering. Application areas vary from offices and industry to schools and retail environments.

Product data

• General Characteristics

Cap-Base Bulb Life to 50% fail Preheat EL.3h	G5 T5 [16 mm] 25000 hr
Life to 10% fail Preheat EL.3h	21000 hr
LSF HF Preheat 20000h Rated,3h	92 %
LSF HF Preheat 12000h Rated,3h	95 %
LSF HF Preheat 8000h Rated,3h	97 %
LSF HF Preheat 6000h Rated,3h	98 %
LSF HF Preheat 4000h Rated,3h	98 %
LSF HF Preheat 2000h Rated.3h	99 %
LSF HF Preheat 16000h Rated,3h	95 %

• Electrical Characteristics

Lamp Wattage Lamp Voltage EL 25°C	45 W 177 V		
Lamp Current EL 25°C	0.255 A		
Dimmable Lamp Wattage EL 35°C	yes 45 W		
Lamp Current EL 35°C	0.260 A		
Lamp Voltage EL 35°C	133 V		



25°C, Rated	
	45.14/
Lamp Wattage EL	45 W
25°C, Nominal	
• Environmental Charact	eristics
Energy Efficiency	А
Label (EEL)	7.
Mercury (Hg)	1.4 mg
Content	1.4 mg
Content	
Light Technical Charact	teristics
Colour Code	830 [CCT of 3000K]
Colour Rendering	85 Ra8
Index	
Colour Designation	Warm white
Colour Temperature	3000 K
Chromaticity Coor-	444 -
dinate X	111-
Chromaticity Coor-	409 -
dinate Y	407 -
	4000 L
Luminous Flux Lamp	4900 Lm
EL 35°C	
Luminance Average	2.0 cd/cm2
EL 25°C	
Lum Efficacy Rated	91 Lm/W
HF 25°C	
Lum Efficacy Rated	109 Lm/W
HF 35°C	
LLMF HF 20000h	88 %
Rated	
LLMF HF 16000h	90 %
Rated	
LLMF HF 12000h	91 %
Rated	
i tuted	

45.1 W

Lamp Wattage EL



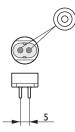
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LLMF HF 8000h Rated LLMF HF 6000h	93 % 94 %	HF Generator Rated Voltage Resistor	373 V 765 ohm	
Rated LLMF HF 4000h Rated	95 %	• Product Data		
LLMF HF 2000h Rated	96 %	Order code Full product code	825947 00 872790082594700	
Luminous Flux EL 25°C, Rated	4100 Lm	Full product name	MASTER TL5 HO Eco 45=49W/830 UNP	
Luminous Flux EL 25°C, Nominal	4100 Lm	Order product name	MASTER TL5 HO Eco 45=49W/830 UNP/40	
Design Temperature	35 C	Pieces per pack Packing configuration	1 40	
• Product Dimensions		Packs per outerbox Bar code on pack -	40 8711500880062	
Base Face to Base Face A Insertion Length B	1449.0 (max) mm 1453.7 (min), 1456.1 (max) mm	EAN1 Bar code on outerbox - EAN3	8727900825947	
Overall Length C Diameter D	1463.2 (max) mm 17 (max) mm	Logistic code(s) - 12NC	927991783031	
Measuring Conditions		ILCOS code Net weight per piece	FDH-45/30/1B-L/P-G5-16/1450 128.700 kg	

Calibration Current 0.255 A

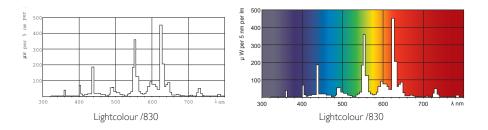
Dimensional drawing





Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HO Eco 45=49W/830	1449.0	1453.7	1456.1	1463.2	17

Photometric data



Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 - Ecodesign requirements, applicable from 13 April 2010.

a) Nominal and rated lamp wattage;

b) Nominal and rated lamp luminous flux; c) Rated lamp efficacy at 100 h in standard conditions (25 °C, for T5 lamps at 35 °C). For fluorescent lamps both at 50 Hz (mains frequency) operation (where applicable) and at High Frequency (> 50 Hz) operation (where applicable) for the same rated lum us flux in all cases, indicating for High Frequency operation the calibration current of the test conditions and/or the rated voltage of the HF generator with the resistance. It shall be stated in a conspicuous manner that the power dissipated by auxiliary equipment such as ballasts is

not included in the power consumed by the source d) Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz

and High Frequency operation are possible; e) Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High

Frequency operation are possible

f) Lamp mercury content as X.X mg;g) Colour Rendering Index (Ra) of the lamp;

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) Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room

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() For fluorescent lamps without integrated ballast, the energy efficiency index(es) of ballasts as defined in Table 17 with which the lamp can operate. See Table 17-EuP245.pdf for Table 17 – Energy efficiency index requirements for non-dimmable ballasts for fluorescent lamps. For more inform ation see: http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=O|:L:2009:076:0017:0044:EN:PDF

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