

MASTER TL5 High Output Eco



MASTER TL5 HO Eco 50=54W/840 UNP/40

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 color rendering. Application areas vary from offices and industry to schools and retail environments.

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.

Product data

General information	
Cap-Base	G5 [G5]
Life to 50% Failures Preheat (Nom)	30000 h
Features	na [Not Applicable]
LSF Preheat 2000 h Rated	99 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	99 %
LSF Preheat 16000 h Rated	99 %
LSF Preheat 20000 h Rated	94 %
Flux measurement reference	Sphere

Light technical	
Colour Code	840 [CCT of 4000K]
Luminous Flux (Nom)	4400 lm
Luminous Flux (Rated) (Nom)	4450 lm
Colour Designation	Cool White (CW)
Luminous Efficacy (@ Max Lumen, Rated) (Nom)	102 lm/W
Chromaticity Coordinate X (Nom)	0.38
Chromaticity Coordinate Y (Nom)	0.38
Colour Temperature, horizontal (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	93 lm/W
Colour Rendering Index horiz (Max)	85
Colour Rendering Index horiz (Min)	80

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Colour Rendering Index horiz (Nom)	80
Depreciation 2000 hrs	96 %
LLMF 4000 h Rated	95 %
Depreciation 5000 hrs	94 %
LLMF 8000 h Rated	93 %
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 20000 h Rated	90 %

Operating and electrical

Power (Rated) (Nom)	49.3 W
Lamp Current (Nom)	0.460 A

Temperature

Design Temperature (Nom)	35 °C
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Controls and dimming

Dimmable	Yes
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Mechanical and housing

Bulb Shape	T5 [16 mm (T5)]
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Approval and application

Energy Efficiency Class	G
Mercury (Hg) Content (Nom)	1.2 mg
Energy Consumption kWh/1000 h	50 kWh
EPREL Registration Number	423473

Product data

Full product code	872790082591600
Order product name	MASTER TL5 HO Eco 50=54W/840 UNP/40
EAN/UPC - Product	8711500880055
Order code	82591600
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	40
Material Nr. (12NC)	927991284031
Net Weight (Piece)	105.800 g
ILCOS Code	FDH-50/40/1B-L/P-G5-16/1150

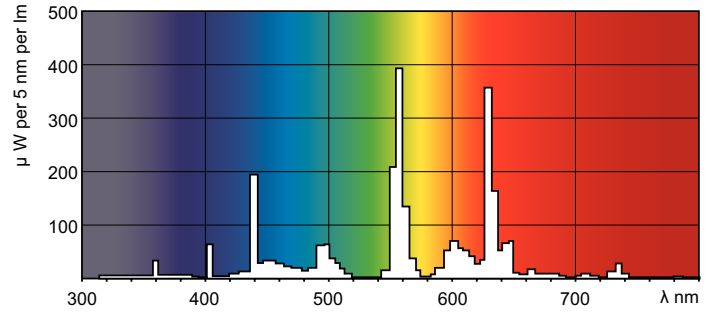
Dimensional drawing

Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO Eco 50=54W/840 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

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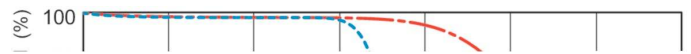
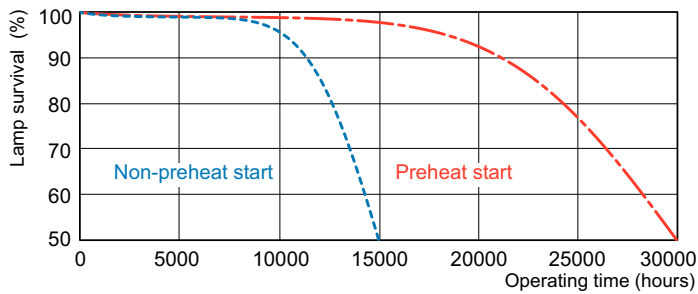
Photometric data



Lightcolour /840

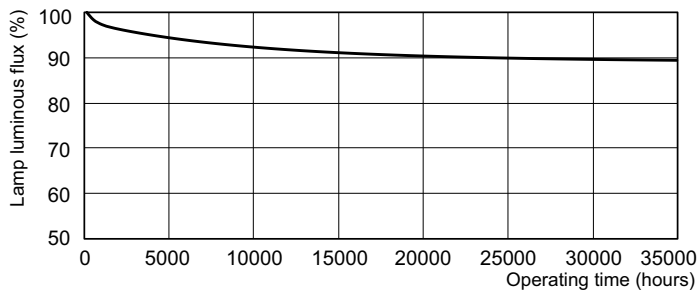
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Lifetime



LDLE_TL5ECO_0001-Life expectancy diagram

LDLE_TL5ECO_0002-Life expectancy diagram



LDLM_TL5ECO_0001-Lumen maintenance diagram

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