



# MASTER TL5 High Efficiency Eco



## MASTER TL5 HE Eco 13=14W/830 UNP/40

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.

### 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)	25000 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	
Color Code	830 [ CCT of 3000K]
Luminous Flux (Nom)	1150 lm
Luminous Flux (Rated) (Nom)	1150 lm
Color Designation	Warm White (WW)
Luminous Efficacy (@ Max Lumen, Rated) (Nom)	108 lm/W
Chromaticity Coordinate X (Nom)	0.44
Chromaticity Coordinate Y (Nom)	0.403
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	92 lm/W
Color Rendering Index (Max)	85
Color Rendering Index (Min)	80
Color Rendering Index (Nom)	82
LLMF 2000 h Rated	96 %
LLMF 4000 h Rated	95 %

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LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 20000 h Rated	88 %

## Operating and electrical

Power (Nom)	12.5 W
Lamp Current (Nom)	0.170 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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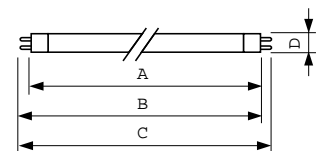
## Approval and application

Energy Efficiency Class	F
Mercury (Hg) Content (Nom)	1.2 mg
Energy Consumption kWh/1000 h	13 kWh
EPREL Registration Number	423462

## Product data

Full product code	872790088081600
Order product name	MASTER TL5 HE Eco 13=14W/830 UNP/40
EAN/UPC - Product	8711500881281
Order code	927989883031
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	40
Material Nr. (12NC)	927989883031
Net Weight (Piece)	52.000 g
ILCOS Code	FDH-13/30/1B-L/P-G5-16/550

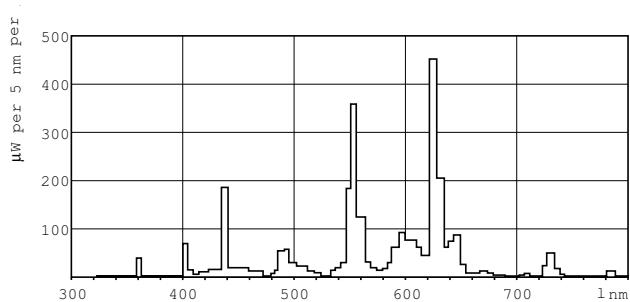
## Dimensional drawing



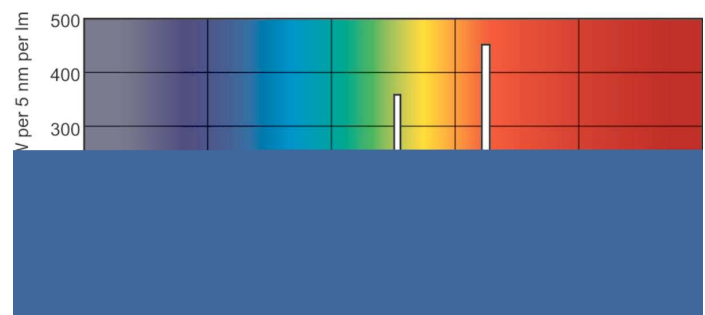
Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HE Eco 13=14W/830 UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm

## MASTER TL5 HE Eco 13=14W/830 UNP/40

## Photometric data



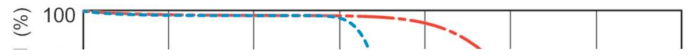
LDPB\_TL5HEECO\_830-Spectral power distribution B/W



LDPO\_TL5HEECO\_830-Spectral power distribution Colour

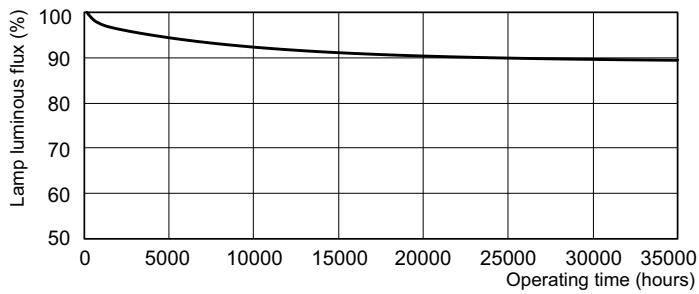
# MASTER TL5 High Efficiency Eco

## Lifetime



LDLE\_TL5HEECO\_0001-Life expectancy diagram

LDLE\_TL5HEECO\_0002-Life expectancy diagram



LDLM\_TL5HEECO\_0001-Lumen maintenance diagram

