



# MASTER TL5 High Efficiency Eco

## MASTER TL5 HE Eco 13=14W/840 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 %
Light Technical	
Color Code	840 [ CCT of 4000K]
Luminous Flux (Nom)	1350 lm

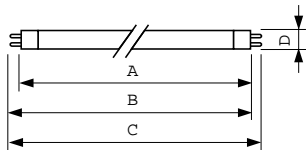
Luminous Flux (Rated) (Nom)	1150 lm
Color Designation	Cool White (CW)
Luminous Efficacy (@ Max Lumen, Rated) (Nom)	108 lm/W
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	92 lm/W
Color Rendering Index (Max)	85
Color Rendering Index (Min)	80
Color Rendering Index (Nom)	82
LLMF 2000 h Rated	96 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %
LLMF 12000 h Rated	92 %

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LLMF 16000 h Rated	91 %
LLMF 20000 h Rated	90 %
<b>Operating and Electrical</b>	
Power (Nom)	13 W
Lamp Current (Nom)	0.170 A
<b>Temperature</b>	
Design Temperature (Nom)	35 °C
<b>Controls and Dimming</b>	
Dimmable	Yes
<b>Approval and Application</b>	
Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	1.4 mg

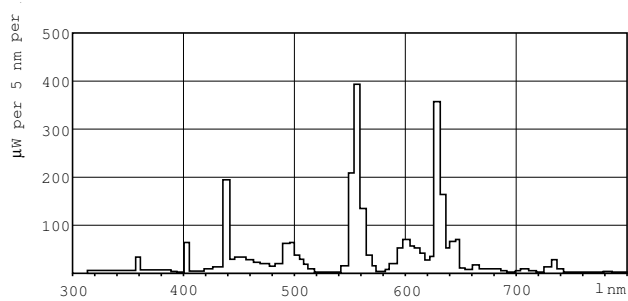
Energy Consumption kWh/1000 h	14 kWh
<b>Product Data</b>	
Full product code	872790088083000
Order product name	MASTER TL5 HE Eco 13=14W/840 UNP/40
EAN/UPC - Product	8711500881298
Order code	927989884031
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	40
Material Nr. (12NC)	927989884031
Net Weight (Piece)	52.000 g
ILCOS Code	FDH-13/40/1B-L/P-G5-16/550

## Dimensional drawing



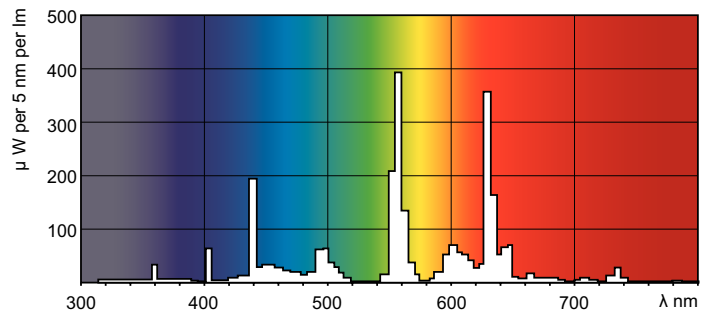
TL5 HE Eco 13=14W/840

## Photometric data



LDPB\_TL5HEECO\_840-Spectral power distribution B/W

**Product**  
MASTER TL5 HE Eco 13=14W/840 UNP/40



LDPO\_TL5HEECO\_840-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

