#### Datasheet, 2022, December 17

# Lighting

**PHILIPS** 

# MASTER TL5 High Efficiency

# MASTER TL5 HE 28W/840 SLV/40

This TL5 lamp (tube diameter 16 mm) has a high luminous efficacy, resulting in low energy consumption. The High Efficiency TL5 lamp offers excellent lumen maintenance and good color rendering. Application areas are offices, industry, public and governmental buildings, schools, hospitals and indoor sports lighting.

### Warnings and Safety

• 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		Luminous Flux (Rated) (Nom)	2675 lm
Cap-Base	G5 [ G5]	Color Designation	Cool White (CW)
Life to 50% Failures Preheat (Nom)	24000 h	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	104 lm/W
Features	na [ Not Applicable]	Chromaticity Coordinate X (Nom)	0.38
System Description	High Efficiency	Chromaticity Coordinate Y (Nom)	0.38
LSF Preheat 2000 h Rated	99 %	Correlated Color Temperature (Nom)	4000 K
LSF Preheat 4000 h Rated	99 %	Luminous Efficacy (rated) (Nom)	96 lm/W
LSF Preheat 6000 h Rated	99 %	Color Rendering Index (Max)	85
LSF Preheat 8000 h Rated	99 %	Color Rendering Index (Min)	80
LSF Preheat 16000 h Rated	97 %	Color Rendering Index (Nom)	80
LSF Preheat 20000 h Rated	84 %	LLMF 2000 h Rated	96 %
Flux measurement reference	Sphere	LLMF 4000 h Rated	95 %
		LLMF 6000 h Rated	94 %
Light technical		LLMF 8000 h Rated	93 %
Color Code	840 [ CCT of 4000K]	LLMF 12000 h Rated	92 %
Luminous Flux (Nom)	2675 lm	LLMF 16000 h Rated	91 %







# **MASTER TL5 High Efficiency**

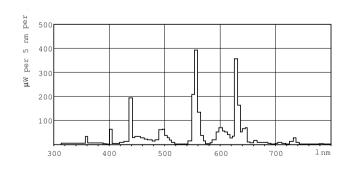
LLMF 20000 h Rated	90 %	Mercury (Hg) Content (Nom)	1.2 mg
		Energy Consumption kWh/1000 h	29 kWh
Operating and electrical		EPREL Registration Number	423537
Power (Nom)	28.1 W		
Lamp Current (Nom)	0.170 A	Product data	
		Full product code	871150063948655
Temperature		Order product name	MASTER TL5 HE 28W/840 SLV/40
Design Temperature (Nom)	35 ℃	EAN/UPC - Product	8711500639486
		Order code	927926584055
Controls and dimming		Numerator - Quantity Per Pack	1
Dimmable	Yes	Local code description	4922684
		Numerator - Packs per outer box	40
Mechanical and housing		Material Nr. (12NC)	927926584055
Cap-Base Information	Green Plate	Net Weight (Piece)	84.000 g
Bulb Shape	T5 [ 16 mm (T5)]	ILCOS Code	FDH-28/40/1B-L/P-G5-16/1150
Approval and application			
Energy Efficiency Class	F		

# **Dimensional drawing**

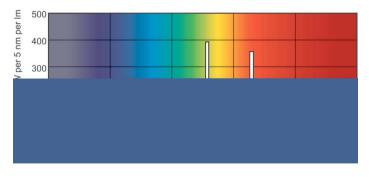
Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HE	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
28W/840 SLV/40					

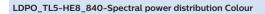
#### MASTER TL5 HE 28W/840 SLV/40

# Photometric data



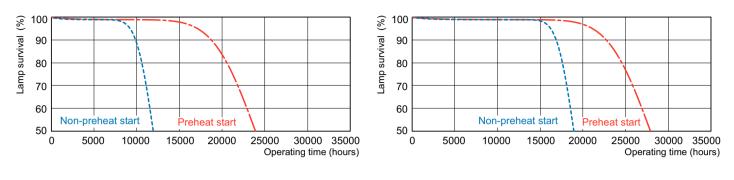
LDPB\_TL5-HE8\_840-Spectral power distribution B/W





# **MASTER TL5 High Efficiency**

## Lifetime





LDLE\_TL5-HE8\_0002-Life expectancy diagram

LDLM\_TL5-HE8\_0001-Lumen maintenance diagram

LDLE\_TL5-HE8\_0001-Life expectancy diagram



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www.lighting.philips.com 2022, December 17 - data subject to change