



# Product Description

## MASTER TL5 High Efficiency

Low-pressure mercury discharge lamps with a tubular 16 mm envelope

### Benefits

- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Offers higher efficiencies and energy savings compared with TL-D lamps
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

### Features

- 40% thinner than TL-D lamps
- High lamp efficacies up to 104 lm/W
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

### Application

- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry, wherever high-quality, energy-effective lighting is required

### 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.

# MASTER TL5 High Efficiency

## Approval and Application

Mercury (Hg) Content (Max)	1.4 mg
Mercury (Hg) Content (Nom)	1.4 mg

## Controls and Dimming

Dimmable	Yes
----------	-----

## General Information

Cap-Base	G5
Life To 50% Failures Preheat (Nom)	24000 h
LSF Preheat 16000 h Rated	97 %
LSF Preheat 20000 h Rated	84 %
LSF Preheat 2000 h Rated	99 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	99 %
System Description	High Efficiency

## Light Technical

Colour Rendering Index (Max)	85
Colour Rendering Index (Min)	80
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 2000 h Rated	96 %
LLMF 20000 h Rated	90 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %

## Mechanical and Housing

Bulb Shape	T5
------------	----

## Temperature

Design Temperature (Nom)	35 °C
--------------------------	-------

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926082755	MASTER TL5 HE 14W/827 SLV/40	14 kWh
927926083055	MASTER TL5 HE 14W/830 SLV/40	14 kWh
927926084055	MASTER TL5 HE 14W/840 SLV/40	14 kWh
927926086555	MASTER TL5 HE 14W/865 SLV/40	14 kWh
927926282755	MASTER TL5 HE 21W/827 SLV/40	21 kWh
927926283055	MASTER TL5 HE 21W/830 SLV/40	21 kWh
927926284055	MASTER TL5 HE 21W/840 SLV/40	21 kWh
927926286555	MASTER TL5 HE 21W/865 SLV/40	21 kWh
927926582755	MASTER TL5 HE 28W/827 SLV/40	29 kWh
927926583055	MASTER TL5 HE 28W/830 SLV/40	29 kWh
927926584055	MASTER TL5 HE 28W/840 SLV/40	29 kWh
927926586555	MASTER TL5 HE 28W/865 SLV/40	29 kWh
927927082755	MASTER TL5 HE 35W/827 SLV/40	35 kWh
927927083055	MASTER TL5 HE 35W/830 SLV/40	35 kWh
927927084055	MASTER TL5 HE 35W/840 SLV/40	35 kWh
927927086555	MASTER TL5 HE 35W/865 SLV/40	35 kWh

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927926082755	MASTER TL5 HE 14W/827 SLV/40	0.165 A	14.0 W
927926083055	MASTER TL5 HE 14W/830 SLV/40	0.165 A	14.0 W
927926084055	MASTER TL5 HE 14W/840 SLV/40	0.165 A	14.0 W
927926086555	MASTER TL5 HE 14W/865 SLV/40	0.165 A	14.0 W
927926282755	MASTER TL5 HE 21W/827 SLV/40	0.165 A	20.8 W
927926283055	MASTER TL5 HE 21W/830 SLV/40	0.165 A	20.8 W
927926284055	MASTER TL5 HE 21W/840 SLV/40	0.165 A	20.8 W
927926286555	MASTER TL5 HE 21W/865 SLV/40	0.165 A	20.8 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927926582755	MASTER TL5 HE 28W/827 SLV/40	0.170 A	28.1 W
927926583055	MASTER TL5 HE 28W/830 SLV/40	0.170 A	28.1 W
927926584055	MASTER TL5 HE 28W/840 SLV/40	0.170 A	28.1 W
927926586555	MASTER TL5 HE 28W/865 SLV/40	0.170 A	28.1 W
927927082755	MASTER TL5 HE 35W/827 SLV/40	0.175 A	34.9 W
927927083055	MASTER TL5 HE 35W/830 SLV/40	0.175 A	34.9 W
927927084055	MASTER TL5 HE 35W/840 SLV/40	0.175 A	34.9 W
927927086555	MASTER TL5 HE 35W/865 SLV/40	0.175 A	34.9 W

## Light Technical (1/2)

## MASTER TL5 High Efficiency

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
927926082755	MASTER TL5 HE 14W/827 SLV/40	0.463	0.42	827	Incandescent White
927926083055	MASTER TL5 HE 14W/830 SLV/40	0.44	0.403	830	Warm white (WW)
927926084055	MASTER TL5 HE 14W/840 SLV/40	0.38	0.38	840	Cool White (CW)
927926086555	MASTER TL5 HE 14W/865 SLV/40	0.313	0.337	865	Cool Daylight
927926282755	MASTER TL5 HE 21W/827 SLV/40	0.463	0.42	827	Incandescent White
927926283055	MASTER TL5 HE 21W/830 SLV/40	0.44	0.403	830	Warm white (WW)
927926284055	MASTER TL5 HE 21W/840 SLV/40	0.38	0.38	840	Cool White (CW)
927926286555	MASTER TL5 HE 21W/865 SLV/40	0.313	0.337	865	Cool Daylight

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
927926582755	MASTER TL5 HE 28W/827 SLV/40	0.463	0.42	827	Incandescent White
927926583055	MASTER TL5 HE 28W/830 SLV/40	0.44	0.403	830	Warm white (WW)
927926584055	MASTER TL5 HE 28W/840 SLV/40	0.38	0.38	840	Cool White (CW)
927926586555	MASTER TL5 HE 28W/865 SLV/40	0.313	0.337	865	Cool Daylight
927927082755	MASTER TL5 HE 35W/827 SLV/40	0.463	0.42	827	Incandescent White
927927083055	MASTER TL5 HE 35W/830 SLV/40	0.44	0.403	830	Warm white (WW)
927927084055	MASTER TL5 HE 35W/840 SLV/40	0.38	0.38	840	Cool White (CW)
927927086555	MASTER TL5 HE 35W/865 SLV/40	0.313	0.337	865	Cool Daylight

### Light Technical (2/2)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour		Luminous Efficacy (@		
			Rendering Index (Nom)	Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927926082755	MASTER TL5 HE 14W/827 SLV/40	2700 K	82	96 lm/W	86 lm/W	1200 lm	1200 lm
927926083055	MASTER TL5 HE 14W/830 SLV/40	3000 K	82	96 lm/W	86 lm/W	1200 lm	1200 lm
927926084055	MASTER TL5 HE 14W/840 SLV/40	4000 K	80	96 lm/W	86 lm/W	1200 lm	1200 lm
927926086555	MASTER TL5 HE 14W/865 SLV/40	6500 K	82	89 lm/W	80 lm/W	1125 lm	1125 lm
927926282755	MASTER TL5 HE 21W/827 SLV/40	2700 K	82	101 lm/W	90 lm/W	1900 lm	1850 lm
927926283055	MASTER TL5 HE 21W/830 SLV/40	3000 K	82	101 lm/W	90 lm/W	1900 lm	1850 lm
927926284055	MASTER TL5 HE 21W/840 SLV/40	4000 K	80	101 lm/W	90 lm/W	1900 lm	1850 lm
927926286555	MASTER TL5 HE 21W/865 SLV/40	6500 K	82	94 lm/W	84 lm/W	1750 lm	1725 lm
927926582755	MASTER TL5 HE 28W/827 SLV/40	2700 K	82	104 lm/W	96 lm/W	2675 lm	2675 lm
927926583055	MASTER TL5 HE 28W/830 SLV/40	3000 K	82	104 lm/W	96 lm/W	2675 lm	2675 lm
927926584055	MASTER TL5 HE 28W/840 SLV/40	4000 K	80	104 lm/W	96 lm/W	2675 lm	2675 lm
927926586555	MASTER TL5 HE 28W/865 SLV/40	6500 K	82	96 lm/W	90 lm/W	2500 lm	2500 lm
927927082755	MASTER TL5 HE 35W/827 SLV/40	2700 K	82	104 lm/W	94 lm/W	3315 lm	3325 lm
927927083055	MASTER TL5 HE 35W/830 SLV/40	3000 K	82	104 lm/W	94 lm/W	3315 lm	3325 lm
927927084055	MASTER TL5 HE 35W/840 SLV/40	4000 K	80	104 lm/W	94 lm/W	3315 lm	3325 lm
927927086555	MASTER TL5 HE 35W/865 SLV/40	6500 K	82	97 lm/W	87 lm/W	3100 lm	3100 lm

## MASTER TL5 High Efficiency

