



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.

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Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HE 14W/830 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/840 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/865 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 28W/830 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HE 28W/835 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HE 28W/865 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HE 35W/830 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HE 35W/840 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HE 35W/865 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm

General Information	
Cap base	G5
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb shape	T5
Approval and Application	
Mercury (Hg) content (nom.)	1.2 mg

Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Colour		Colour	Luminous efficacy	
		Coordinate X (Nom)	Coordinate Y (Nom)	Colour designation	Temperature	rendering index (CRI)	(rated) (nom.)	Luminous Flux
63938755	MASTER TL5 HE 14W/830 1SL/40	0.44	0.403	Warm White (WW)	3000 K	82	86 lm/W	1,200 lm
63940055	MASTER TL5 HE 14W/840 1SL/40	0.38	0.38	Cool White (CW)	4000 K	80	86 lm/W	1,200 lm
71009355	MASTER TL5 HE 14W/865 1SL/40	0.313	0.337	Cool Daylight	6500 K	82	80 lm/W	1,125 lm
63946255	MASTER TL5 HE 28W/830 1SL/40	0.44	0.403	Warm White (WW)	3000 K	82	96 lm/W	2,675 lm
71004855	MASTER TL5 HE 28W/835 1SL/40	0.409	0.394	White (WH)	3500 K	82	96 lm/W	2,675 lm
71015455	MASTER TL5 HE 28W/865 1SL/40	0.313	0.337	Cool Daylight	6500 K	82	90 lm/W	2,500 lm

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Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Colour designation	Correlated Colour Temperature	Colour rendering index (CRI)	Luminous efficacy (rated) (nom.)	Luminous Flux
63950955	MASTER TL5 HE 35W/830 SLV/40	0.44	0.403	Warm White (WW)	3000 K	82	94 lm/W	3,315 lm
63952355	MASTER TL5 HE 35W/840 1SL/40	0.38	0.38	Cool White (CW)	4000 K	80	94 lm/W	3,315 lm
71018555	MASTER TL5 HE 35W/865 1SL/40	0.313	0.337	Cool Daylight	6500 K	82	87 lm/W	3,100 lm

Operating and Electrical

Order Code	Full Product Name	Lamp current (nom.)	Power Consumption
63938755	MASTER TL5 HE 14W/830 1SL/40	0.165 A	14.0 W
63940055	MASTER TL5 HE 14W/840 1SL/40	0.165 A	14.0 W
71009355	MASTER TL5 HE 14W/865 1SL/40	0.165 A	14.0 W
63946255	MASTER TL5 HE 28W/830 1SL/40	0.170 A	28.1 W
71004855	MASTER TL5 HE 28W/835 1SL/40	0.170 A	28.1 W

Order Code	Full Product Name	Lamp current (nom.)	Power Consumption
71015455	MASTER TL5 HE 28W/865 1SL/40	0.170 A	28.1 W
63950955	MASTER TL5 HE 35W/830 SLV/40	0.175 A	34.9 W
63952355	MASTER TL5 HE 35W/840 1SL/40	0.175 A	34.9 W
71018555	MASTER TL5 HE 35W/865 1SL/40	0.175 A	34.9 W

Approval and Application

Order Code	Full Product Name	Energy consumption kWh/1,000 hours
63938755	MASTER TL5 HE 14W/830 1SL/40	14 kWh
63940055	MASTER TL5 HE 14W/840 1SL/40	14 kWh
71009355	MASTER TL5 HE 14W/865 1SL/40	14 kWh
63946255	MASTER TL5 HE 28W/830 1SL/40	29 kWh
71004855	MASTER TL5 HE 28W/835 1SL/40	29 kWh

Order Code	Full Product Name	Energy consumption kWh/1,000 hours
71015455	MASTER TL5 HE 28W/865 1SL/40	29 kWh
63950955	MASTER TL5 HE 35W/830 SLV/40	35 kWh
63952355	MASTER TL5 HE 35W/840 1SL/40	35 kWh
71018555	MASTER TL5 HE 35W/865 1SL/40	35 kWh

