



# Product Description

## MASTER TL5 High Efficiency

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

### Benefits

- Allow 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 lumen output reached at approx. 35 °C in free-burning position if an HF electronic ballast without additional electrode heating is used
- Can be ignited from -15 ° to +50 °C
- Green end-plate indicates full recyclable lamp technology

### Application

- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry (low ceiling), 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

## Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HE 14W/827 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
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 1SL/20	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/840 UNP/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 21W/827 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/830 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/840 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/865 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 28W/827 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 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/840 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HE 28W/840 UNP/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/827 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 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/840 UNP/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

MASTER TL5 High Efficiency

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	Color Designation	Correlated Color Temperature (Nom)	Color	Luminous Efficacy (rated) (Nom)	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)			rendering index (CRI)		
64102155	MASTER TL5 HE 14W/827 1SL/40	0.463	0.42	Incandescent White	2700 K	82	86 lm/W	1,200 lm
63938755	MASTER TL5 HE 14W/830 1SL/40	0.44	0.403	Warm White (WW)	3000 K	82	86 lm/W	1,200 lm
61066955	MASTER TL5 HE 14W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	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
63940005	MASTER TL5 HE 14W/840 1SL/20	-	-	Cool White (CW)	4000 K	82	86 lm/W	1,350 lm
71009355	MASTER TL5 HE 14W/865 1SL/40	0.313	0.337	Cool Daylight	6500 K	82	80 lm/W	1,125 lm
64320955	MASTER TL5 HE 21W/827 1SL/40	0.463	0.42	Incandescent White	2700 K	82	90 lm/W	1,900 lm
63942455	MASTER TL5 HE 21W/830 1SL/40	0.44	0.403	Warm White (WW)	3000 K	82	90 lm/W	1,900 lm
63944855	MASTER TL5 HE 21W/840 1SL/40	0.38	0.38	Cool White (CW)	4000 K	80	90 lm/W	1,900 lm
71011655	MASTER TL5 HE 21W/865 1SL/40	0.313	0.337	Cool Daylight	6500 K	82	84 lm/W	1,750 lm
64322355	MASTER TL5 HE 28W/827 1SL/40	0.463	0.42	Incandescent White	2700 K	82	96 lm/W	2,675 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
61090455	MASTER TL5 HE 28W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	96 lm/W	2,675 lm
63948655	MASTER TL5 HE 28W/840 1SL/40	0.38	0.38	Cool White (CW)	4000 K	80	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
64324755	MASTER TL5 HE 35W/827 1SL/40	0.463	0.42	Incandescent White	2700 K	82	94 lm/W	3,315 lm
63950955	MASTER TL5 HE 35W/830 SLV/40	0.44	0.403	Warm White (WW)	3000 K	82	94 lm/W	3,315 lm
61105555	MASTER TL5 HE 35W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	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
64102155	MASTER TL5 HE 14W/827 1SL/40	0.165 A	14.0 W
63938755	MASTER TL5 HE 14W/830 1SL/40	0.165 A	14.0 W
61066955	MASTER TL5 HE 14W/840 UNP/40	0.165 A	14.0 W
63940055	MASTER TL5 HE 14W/840 1SL/40	0.165 A	14.0 W
63940005	MASTER TL5 HE 14W/840 1SL/20	0.165 A	14 W
71009355	MASTER TL5 HE 14W/865 1SL/40	0.165 A	14.0 W

## MASTER TL5 High Efficiency

Order Code	Full Product Name	Lamp Current	
		(Nom)	Power Consumption
64320955	MASTER TL5 HE 21W/827 1SL/40	0.165 A	20.8 W
63942455	MASTER TL5 HE 21W/830 1SL/40	0.165 A	20.8 W
63944855	MASTER TL5 HE 21W/840 1SL/40	0.165 A	20.8 W
71011655	MASTER TL5 HE 21W/865 1SL/40	0.165 A	20.8 W
64322355	MASTER TL5 HE 28W/827 1SL/40	0.170 A	28.1 W
63946255	MASTER TL5 HE 28W/830 1SL/40	0.170 A	28.1 W
61090455	MASTER TL5 HE 28W/840 UNP/40	0.170 A	28.1 W

Order Code	Full Product Name	Lamp Current	
		(Nom)	Power Consumption
63948655	MASTER TL5 HE 28W/840 1SL/40	0.170 A	28.1 W
71015455	MASTER TL5 HE 28W/865 1SL/40	0.170 A	28.1 W
64324755	MASTER TL5 HE 35W/827 1SL/40	0.175 A	34.9 W
63950955	MASTER TL5 HE 35W/830 SLV/40	0.175 A	34.9 W
61105555	MASTER TL5 HE 35W/840 UNP/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/1000 h
64102155	MASTER TL5 HE 14W/827 1SL/40	14 kWh
63938755	MASTER TL5 HE 14W/830 1SL/40	14 kWh
61066955	MASTER TL5 HE 14W/840 UNP/40	14 kWh
63940055	MASTER TL5 HE 14W/840 1SL/40	14 kWh
63940005	MASTER TL5 HE 14W/840 1SL/20	15 kWh
71009355	MASTER TL5 HE 14W/865 1SL/40	14 kWh
64320955	MASTER TL5 HE 21W/827 1SL/40	21 kWh
63942455	MASTER TL5 HE 21W/830 1SL/40	21 kWh
63944855	MASTER TL5 HE 21W/840 1SL/40	21 kWh
71011655	MASTER TL5 HE 21W/865 1SL/40	21 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
64322355	MASTER TL5 HE 28W/827 1SL/40	29 kWh
63946255	MASTER TL5 HE 28W/830 1SL/40	29 kWh
61090455	MASTER TL5 HE 28W/840 UNP/40	29 kWh
63948655	MASTER TL5 HE 28W/840 1SL/40	29 kWh
71015455	MASTER TL5 HE 28W/865 1SL/40	29 kWh
64324755	MASTER TL5 HE 35W/827 1SL/40	35 kWh
63950955	MASTER TL5 HE 35W/830 SLV/40	35 kWh
61105555	MASTER TL5 HE 35W/840 UNP/40	35 kWh
63952355	MASTER TL5 HE 35W/840 1SL/40	35 kWh
71018555	MASTER TL5 HE 35W/865 1SL/40	35 kWh

