



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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Approval and Application

Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	1.4 mg

Controls and Dimming

Dimmable	Yes
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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
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Temperature

Design Temperature (Nom)	35 °C
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
63938755	MASTER TL5 HE 14W/830 1SL/40	15 kWh
70765955	MASTER TL5 HE 14W/835 SLV/40	15 kWh
63940055	MASTER TL5 HE 14W/840 1SL/40	15 kWh
71009355	MASTER TL5 HE 14W/865 1SL/40	15 kWh
64320955	MASTER TL5 HE 21W/827 1SL/40	23 kWh
63942455	MASTER TL5 HE 21W/830 1SL/40	23 kWh
63944855	MASTER TL5 HE 21W/840 1SL/40	23 kWh
71011655	MASTER TL5 HE 21W/865 1SL/40	23 kWh
64322355	MASTER TL5 HE 28W/827 1SL/40	31 kWh
63946255	MASTER TL5 HE 28W/830 1SL/40	31 kWh
71004855	MASTER TL5 HE 28W/835 1SL/40	31 kWh
63948655	MASTER TL5 HE 28W/840 1SL/40	31 kWh
71015455	MASTER TL5 HE 28W/865 1SL/40	31 kWh
63950955	MASTER TL5 HE 35W/830 SLV/40	38 kWh
63952355	MASTER TL5 HE 35W/840 1SL/40	38 kWh
71018555	MASTER TL5 HE 35W/865 1SL/40	38 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)	Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
63938755	MASTER TL5 HE 14W/830 1SL/40	0.165 A	14 W	64322355	MASTER TL5 HE 28W/827 1SL/40	0.170 A	27.9 W
70765955	MASTER TL5 HE 14W/835 SLV/40	0.165 A	14 W	63946255	MASTER TL5 HE 28W/830 1SL/40	0.170 A	27.9 W
63940055	MASTER TL5 HE 14W/840 1SL/40	0.165 A	14 W	71004855	MASTER TL5 HE 28W/835 1SL/40	0.170 A	27.9 W
71009355	MASTER TL5 HE 14W/865 1SL/40	0.165 A	14 W	63948655	MASTER TL5 HE 28W/840 1SL/40	0.170 A	27.9 W
64320955	MASTER TL5 HE 21W/827 1SL/40	0.165 A	20.6 W	71015455	MASTER TL5 HE 28W/865 1SL/40	0.170 A	27.9 W
63942455	MASTER TL5 HE 21W/830 1SL/40	0.165 A	20.6 W	63950955	MASTER TL5 HE 35W/830 SLV/40	0.175 A	35.5 W
63944855	MASTER TL5 HE 21W/840 1SL/40	0.165 A	20.6 W	63952355	MASTER TL5 HE 35W/840 1SL/40	0.175 A	35.5 W
71011655	MASTER TL5 HE 21W/865 1SL/40	0.165 A	20.6 W	71018555	MASTER TL5 HE 35W/865 1SL/40	0.175 A	35.5 W

Light Technical (1/2)

MASTER TL5 High Efficiency

Order Code	Full Product Name	Colour Code	Colour Designation	Correlated Colour	Colour Rendering
				Temperature (Nom)	Index (Nom)
63938755	MASTER TL5 HE 14W/830 1SL/40	830	Warm white (WW)	3000 K	>80
70765955	MASTER TL5 HE 14W/835 SLV/40	835	White (WH)	3500 K	82
63940055	MASTER TL5 HE 14W/840 1SL/40	840	Cool White (CW)	4000 K	82
71009355	MASTER TL5 HE 14W/865 1SL/40	865	Cool Daylight	6500 K	82
64320955	MASTER TL5 HE 21W/827 1SL/40	827	Incandescent White	2700 K	82
63942455	MASTER TL5 HE 21W/830 1SL/40	830	Warm white (WW)	3000 K	>80
63944855	MASTER TL5 HE 21W/840 1SL/40	840	Cool White (CW)	4000 K	82
71011655	MASTER TL5 HE 21W/865 1SL/40	865	Cool Daylight	6500 K	82
64322355	MASTER TL5 HE 28W/827 1SL/40	827	Incandescent White	2700 K	82

Order Code	Full Product Name	Colour Code	Colour Designation	Correlated Colour	Colour Rendering
				Temperature (Nom)	Index (Nom)
63946255	MASTER TL5 HE 28W/830 1SL/40	830	Warm white (WW)	3000 K	>80
71004855	MASTER TL5 HE 28W/835 1SL/40	835	White (WH)	3500 K	82
63948655	MASTER TL5 HE 28W/840 1SL/40	840	Cool White (CW)	4000 K	82
71015455	MASTER TL5 HE 28W/865 1SL/40	865	Cool Daylight	6500 K	82
63950955	MASTER TL5 HE 35W/830 SLV/40	830	Warm white (WW)	3000 K	82
63952355	MASTER TL5 HE 35W/840 1SL/40	840	Cool White (CW)	4000 K	82
71018555	MASTER TL5 HE 35W/865 1SL/40	865	Cool Daylight	6500 K	82

Light Technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (@	Luminous Efficacy	Luminous Flux (Nom)	Luminous Flux
		Max Lumen, Rated) (Nom)	(rated) (Nom)		(Rated) (Nom)
63938755	MASTER TL5 HE 14W/830 1SL/40	96 lm/W	86 lm/W	1350 lm	1200 lm
70765955	MASTER TL5 HE 14W/835 SLV/40	96 lm/W	86 lm/W	1350 lm	1200 lm
63940055	MASTER TL5 HE 14W/840 1SL/40	96 lm/W	86 lm/W	1350 lm	1200 lm
71009355	MASTER TL5 HE 14W/865 1SL/40	89 lm/W	80 lm/W	1250 lm	1125 lm
64320955	MASTER TL5 HE 21W/827 1SL/40	101 lm/W	90 lm/W	2100 lm	1850 lm
63942455	MASTER TL5 HE 21W/830 1SL/40	101 lm/W	90 lm/W	2100 lm	1850 lm
63944855	MASTER TL5 HE 21W/840 1SL/40	101 lm/W	90 lm/W	2100 lm	1850 lm
71011655	MASTER TL5 HE 21W/865 1SL/40	94 lm/W	84 lm/W	1950 lm	1725 lm
64322355	MASTER TL5 HE 28W/827 1SL/40	104 lm/W	96 lm/W	2900 lm	2675 lm

Order Code	Full Product Name	Luminous Efficacy (@	Luminous Efficacy	Luminous Flux (Nom)	Luminous Flux
		Max Lumen, Rated) (Nom)	(rated) (Nom)		(Rated) (Nom)
63946255	MASTER TL5 HE 28W/830 1SL/40	104 lm/W	96 lm/W	2900 lm	2675 lm
71004855	MASTER TL5 HE 28W/835 1SL/40	104 lm/W	96 lm/W	2900 lm	2675 lm
63948655	MASTER TL5 HE 28W/840 1SL/40	104 lm/W	96 lm/W	2900 lm	2675 lm
71015455	MASTER TL5 HE 28W/865 1SL/40	96 lm/W	90 lm/W	2700 lm	2500 lm
63950955	MASTER TL5 HE 35W/830 SLV/40	104 lm/W	94 lm/W	3650 lm	3325 lm
63952355	MASTER TL5 HE 35W/840 1SL/40	104 lm/W	94 lm/W	3650 lm	3325 lm
71018555	MASTER TL5 HE 35W/865 1SL/40	97 lm/W	87 lm/W	3400 lm	3100 lm

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