



High efficient fluorescent lighting

MASTER TL5 High Efficiency

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.

Benefits

- Allows system miniaturization and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- High lamp efficacies and luminaire efficiencies

Features

- 40% thinner and 5 cm shorter than corresponding TL-D lamps
- High lamp efficacies up to 104 lm/W
- Specifically designed for operation with electronic gear
- Maximum light output reached at approximately 35 °C in free-burning position

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.

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Approval and application

Mercury (Hg) Content (Nom) 1.2 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
64102155	MASTER TL5 HE 14W/827 1SL/40	14 kWh
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
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
64322355	MASTER TL5 HE 28W/827 1SL/40	29 kWh
63946255	MASTER TL5 HE 28W/830 1SL/40	29 kWh
71004855	MASTER TL5 HE 28W/835 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
63952355	MASTER TL5 HE 35W/840 1SL/40	35 kWh
71018555	MASTER TL5 HE 35W/865 1SL/40	35 kWh

Operating and electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Nom)	Order Code	Full Product Name	Lamp Current (Nom)	Power (Nom)
64102155	MASTER TL5 HE 14W/827 1SL/40	0.165 A	14.0 W	63946255	MASTER TL5 HE 28W/830 1SL/40	0.170 A	28.1 W
63938755	MASTER TL5 HE 14W/830 1SL/40	0.165 A	14.0 W	71004855	MASTER TL5 HE 28W/835 1SL/40	0.170 A	28.1 W
63940055	MASTER TL5 HE 14W/840 1SL/40	0.165 A	14.0 W	61090455	MASTER TL5 HE 28W/840 UNP/40	0.170 A	28.1 W
71009355	MASTER TL5 HE 14W/865 1SL/40	0.165 A	14.0 W	63948655	MASTER TL5 HE 28W/840 1SL/40	0.170 A	28.1 W
64320955	MASTER TL5 HE 21W/827 1SL/40	0.165 A	20.8 W	71015455	MASTER TL5 HE 28W/865 1SL/40	0.170 A	28.1 W
63942455	MASTER TL5 HE 21W/830 1SL/40	0.165 A	20.8 W	64324755	MASTER TL5 HE 35W/827 1SL/40	0.175 A	34.9 W
63944855	MASTER TL5 HE 21W/840 1SL/40	0.165 A	20.8 W	63950955	MASTER TL5 HE 35W/830 SLV/40	0.175 A	34.9 W
71011655	MASTER TL5 HE 21W/865 1SL/40	0.165 A	20.8 W	63952355	MASTER TL5 HE 35W/840 1SL/40	0.175 A	34.9 W
64322355	MASTER TL5 HE 28W/827 1SL/40	0.170 A	28.1 W	71018555	MASTER TL5 HE 35W/865 1SL/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	Colour Designation
64102155	MASTER TL5 HE 14W/827 1SL/40	0.463	0.42	827	Incandescent White
63938755	MASTER TL5 HE 14W/830 1SL/40	0.44	0.403	830	Warm White (WW)
63940055	MASTER TL5 HE 14W/840 1SL/40	0.38	0.38	841	Cool White (CW)
71009355	MASTER TL5 HE 14W/865 1SL/40	0.313	0.337	865	Cool Daylight
64320955	MASTER TL5 HE 21W/827 1SL/40	0.463	0.42	827	Incandescent White
63942455	MASTER TL5 HE 21W/830 1SL/40	0.44	0.403	830	Warm White (WW)
63944855	MASTER TL5 HE 21W/840 1SL/40	0.38	0.38	841	Cool White (CW)
71011655	MASTER TL5 HE 21W/865 1SL/40	0.313	0.337	865	Cool Daylight
64322355	MASTER TL5 HE 28W/827 1SL/40	0.463	0.42	827	Incandescent White
63946255	MASTER TL5 HE 28W/830 1SL/40	0.44	0.403	830	Warm White (WW)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation
71004855	MASTER TL5 HE 28W/835 1SL/40	0.409	0.394	835	White (WH)
61090455	MASTER TL5 HE 28W/840 UNP/40	0.38	0.38	841	Cool White (CW)
63948655	MASTER TL5 HE 28W/840 1SL/40	0.38	0.38	841	Cool White (CW)
71015455	MASTER TL5 HE 28W/865 1SL/40	0.313	0.337	865	Cool Daylight
64324755	MASTER TL5 HE 35W/827 1SL/40	0.463	0.42	827	Incandescent White
63950955	MASTER TL5 HE 35W/830 SLV/40	0.44	0.403	830	Warm White (WW)
63952355	MASTER TL5 HE 35W/840 1SL/40	0.38	0.38	841	Cool White (CW)
71018555	MASTER TL5 HE 35W/865 1SL/40	0.313	0.337	865	Cool Daylight

Light technical (2/2)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour		Luminous Efficacy (@		Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
			Rendering Index (Nom)	Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)			
64102155	MASTER TL5 HE 14W/827 1SL/40	2700 K	82	96 lm/W	86 lm/W	1200 lm	1200 lm	
63938755	MASTER TL5 HE 14W/830 1SL/40	3000 K	82	96 lm/W	86 lm/W	1200 lm	1200 lm	
63940055	MASTER TL5 HE 14W/840 1SL/40	4000 K	80	96 lm/W	86 lm/W	1200 lm	1200 lm	
71009355	MASTER TL5 HE 14W/865 1SL/40	6500 K	82	89 lm/W	80 lm/W	1125 lm	1125 lm	
64320955	MASTER TL5 HE 21W/827 1SL/40	2700 K	82	101 lm/W	90 lm/W	1900 lm	1850 lm	
63942455	MASTER TL5 HE 21W/830 1SL/40	3000 K	82	101 lm/W	90 lm/W	1900 lm	1850 lm	
63944855	MASTER TL5 HE 21W/840 1SL/40	4000 K	80	101 lm/W	90 lm/W	1900 lm	1850 lm	
71011655	MASTER TL5 HE 21W/865 1SL/40	6500 K	82	94 lm/W	84 lm/W	1750 lm	1725 lm	
64322355	MASTER TL5 HE 28W/827 1SL/40	2700 K	82	104 lm/W	96 lm/W	2675 lm	2675 lm	
63946255	MASTER TL5 HE 28W/830 1SL/40	3000 K	82	104 lm/W	96 lm/W	2675 lm	2675 lm	
71004855	MASTER TL5 HE 28W/835 1SL/40	3500 K	82	104 lm/W	96 lm/W	2675 lm	2675 lm	
61090455	MASTER TL5 HE 28W/840 UNP/40	4000 K	80	104 lm/W	96 lm/W	2675 lm	2675 lm	
63948655	MASTER TL5 HE 28W/840 1SL/40	4000 K	80	104 lm/W	96 lm/W	2675 lm	2675 lm	
71015455	MASTER TL5 HE 28W/865 1SL/40	6500 K	82	96 lm/W	90 lm/W	2500 lm	2500 lm	
64324755	MASTER TL5 HE 35W/827 1SL/40	2700 K	82	104 lm/W	94 lm/W	3315 lm	3325 lm	
63950955	MASTER TL5 HE 35W/830 SLV/40	3000 K	82	104 lm/W	94 lm/W	3315 lm	3325 lm	
63952355	MASTER TL5 HE 35W/840 1SL/40	4000 K	80	104 lm/W	94 lm/W	3315 lm	3325 lm	
71018555	MASTER TL5 HE 35W/865 1SL/40	6500 K	82	97 lm/W	87 lm/W	3100 lm	3100 lm	

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