



Product Description

MASTER TL5 High Output 90 De Luxe

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

Benefits

- Allows system miniaturisation and maximum luminaire design freedom, with lamp lengths defined for easy fitting into ceiling module systems
- Virtually constant lumen level with good lumen maintenance
- Excellent colour rendering

Features

- 40% thinner than existing TL-D lamps
- Highly efficient multi-band fluorescent coating in combination with precoating and high lamp load
- 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

- Where a high colour recognition is needed: first aid and treatment rooms in hospitals, printing rooms, jewellery manufacturing, dentists, hairdressing, museums and shops

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 Output 90 De Luxe

Versions



Approval and Application

Mercury (Hg) Content (Nom)	1.4 mg
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Controls and Dimming

Dimmable	Yes
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General Information

Cap-Base	G5
Life To 50% Failures Preheat (Nom)	30000 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 %

Light Technical

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	Mercury (Hg) Content (Max)
89062700	MASTER TL5 HO 90 De Luxe 49W/950 1SL/20	50 kWh	1.4 mg
86895400	MASTER TL5 HO 90 De Luxe 24W/940 1SL/20	25 kWh	-
26130400	MASTER TL5 HO 90 De Luxe 24W/965 1SL/20	23 kWh	1.4 mg
89066500	MASTER TL5 HO 90 De Luxe 54W/952 1SL/20	55 kWh	1.4 mg
86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	55 kWh	1.4 mg

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
89062700	MASTER TL5 HO 90 De Luxe 49W/950 1SL/20	0.255 A	49.8 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
86895400	MASTER TL5 HO 90 De Luxe 24W/940 1SL/20	0.295 A	22.5 W

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Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
26130400	MASTER TL5 HO 90 De Luxe 24W/965 1SL/20	0.295 A	22.8 W
89066500	MASTER TL5 HO 90 De Luxe 54W/952 1SL/20	0.455 A	54.6 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	0.455 A	54.6 W

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
89062700	MASTER TL5 HO 90 De Luxe 49W/950 1SL/20	0.34	0.351	950	Daylight
86895400	MASTER TL5 HO 90 De Luxe 24W/940 1SL/20	380	380	940	Cool White (CW)
26130400	MASTER TL5 HO 90 De Luxe 24W/965 1SL/20	0.313	0.337	965	Cool Daylight

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
89066500	MASTER TL5 HO 90 De Luxe 54W/952 1SL/20	0.34	0.351	950	Daylight
86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	0.313	0.337	965	Cool Daylight

Light Technical (2/2)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Luminous Efficacy (@)			
				Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
89062700	MASTER TL5 HO 90 De Luxe 49W/950 1SL/20	5200 K	92	85 lm/W	76 lm/W	3800 lm	3725 lm
86895400	MASTER TL5 HO 90 De Luxe 24W/940 1SL/20	4000 K	91	78 lm/W	68 lm/W	1750 lm	1525 lm
26130400	MASTER TL5 HO 90 De Luxe 24W/965 1SL/20	6500 K	92	78 lm/W	68 lm/W	1525 lm	1525 lm
89066500	MASTER TL5 HO 90 De Luxe 54W/952 1SL/20	5200 K	91	80 lm/W	71 lm/W	3825 lm	3825 lm
86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	6500 K	92	80 lm/W	71 lm/W	3825 lm	3825 lm

