



Product Description

MASTER TL5 High Output 90 De Luxe

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

Benefits

- Allow 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 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

Application

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

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.

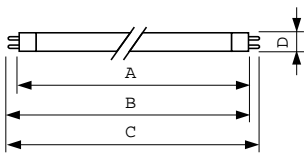
MASTER TL5 High Output 90 De Luxe

Versions



G5, T5

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO 90 De Luxe 54W/940 1SL20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 90 De Luxe 49W/950 1SL20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 90 De Luxe 54W/950 1SL20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 90 De Luxe 54W/965 1SL20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 90 De Luxe 49W/965 1SL20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 90 De Luxe 24W/940 1SL20	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HO 90 De Luxe 24W/965 1SL20	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm

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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)	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
89062700	MASTER TL5 HO 90 De Luxe 49W/950 1SL/20	54 kWh
86972200	MASTER TL5 HO 90 De Luxe 49W/965 1SL/20	54 kWh
86895400	MASTER TL5 HO 90 De Luxe 24W/940 1SL/20	25 kWh
26130400	MASTER TL5 HO 90 De Luxe 24W/965 1SL/20	25 kWh
86905000	MASTER TL5 HO 90 De Luxe 54W/940 1SL/20	59 kWh
89066500	MASTER TL5 HO 90 De Luxe 54W/950 1SL/20	59 kWh
86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	59 kWh

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	49.2 W
86972200	MASTER TL5 HO 90 De Luxe 49W/965 1SL/20	0.255 A	49.2 W
86895400	MASTER TL5 HO 90 De Luxe 24W/940 1SL/20	0.295 A	22.5 W
26130400	MASTER TL5 HO 90 De Luxe 24W/965 1SL/20	0.295 A	22.5 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
86905000	MASTER TL5 HO 90 De Luxe 54W/940 1SL/20	0.455 A	54.1 W
89066500	MASTER TL5 HO 90 De Luxe 54W/950 1SL/20	0.455 A	54.1 W
86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	0.455 A	54.1 W

Light Technical (1/2)

MASTER TL5 High Output 90 De Luxe

Order Code	Full Product Name	Chromaticity		Color		Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Color Code	Color Designation			Coordinate X (Nom)	Coordinate Y (Nom)	Color Code	Color Designation
89062700	MASTER TL5 HO 90 De Luxe 49W/950 1SL/20	346	359	950	Daylight	86905000	MASTER TL5 HO 90 De Luxe 54W/940 1SL/20	380	380	940	Cool White (CW)
86972200	MASTER TL5 HO 90 De Luxe 49W/965 1SL/20	313	337	965	Cool Daylight	89066500	MASTER TL5 HO 90 De Luxe 54W/950 1SL/20	346	359	950	Daylight
86895400	MASTER TL5 HO 90 De Luxe 24W/940 1SL/20	380	380	940	Cool White (CW)	86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	313	337	965	Cool Daylight
26130400	MASTER TL5 HO 90 De Luxe 24W/965 1SL/20	313	337	965	Cool Daylight						

Light Technical (2/2)

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color		Luminous Efficacy (@		Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
			Rendering Index (Nom)	Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)			
89062700	MASTER TL5 HO 90 De Luxe 49W/950 1SL/20	5200 K	92	85 lm/W	76 lm/W	4200 lm	3725 lm	
86972200	MASTER TL5 HO 90 De Luxe 49W/965 1SL/20	6800 K	93	85 lm/W	76 lm/W	4200 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	6800 K	93	78 lm/W	68 lm/W	1750 lm	1525 lm	
86905000	MASTER TL5 HO 90 De Luxe 54W/940 1SL/20	4000 K	91	80 lm/W	71 lm/W	4300 lm	3825 lm	
89066500	MASTER TL5 HO 90 De Luxe 54W/950 1SL/20	5200 K	92	80 lm/W	71 lm/W	4300 lm	3825 lm	
86983800	MASTER TL5 HO 90 De Luxe 54W/965 1SL/20	6800 K	93	80 lm/W	71 lm/W	4300 lm	3825 lm	

