



# Product Description

## MASTER TL-D 90 De Luxe

Low-pressure mercury discharge lamps with a tubular 26 mm envelope

### Benefits

- Very good colour rendering. Making colours appear rich, deep and enhanced as they do in daylight, making products appear more attractive
- 25% More light than competition
- Enabling customer to switch to 900-colours with (almost) no decrease of light level
- Enabling customers (in certain segments) to respect the new European standard for lighting of indoor workplaces (CEN 12464-1), without investing in new luminaires
- Attractive packaging configuration
- Direct retrofit for all Standard and Super 80 TL-D lamps operating on conventional or HF gear
- Possible to create atmospheres from warm white to cool daylight

### Features

- High-quality fluorescent coating
- Available in various colour designations

### Application

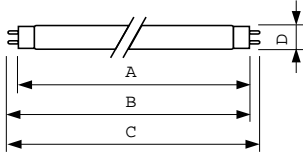
- Used in applications where good colour rendering is crucial, such as shops (flower, fashion, department, etc.), hairdresser, museums, hospitals, etc

### 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 TL-D 90 De Luxe

## Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL-D 90 De Luxe 18W/965 SLV/10	28 mm	589.8 mm	596.9 mm	594.5 mm	604 mm
MASTER TL-D 90 De Luxe 36W/965 SLV/10	28 mm	1199.4 mm	1206.5 mm	1204.1 mm	1213.6 mm

### Approval and Application

Mercury (Hg) Content (Nom)	2 mg
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### Controls and Dimming

Dimmable	Yes
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### General Information

Cap-Base	G13
Life To 50% Failures Preheat (Nom)	20000 h
Life To 10% Failures (Nom)	12000 h
Life To 50% Failures (Nom)	15000 h
LSF 12000 h Rated	89 %
LSF 16000 h Rated	33 %
LSF 2000 h Rated	99 %
LSF 20000 h Rated	2 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %

### Light Technical

Chromaticity Coordinate X (Nom)	309
Colour Code	965
Colour Designation	Cool Daylight
Correlated Colour Temperature (Nom)	6500 K
Colour Rendering Index (Nom)	93
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	T8
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### Temperature

Design Temperature (Nom)	25 °C
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### Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Energy Efficiency
		1000 h	Label (EEL)
928043596581	MASTER TL-D 90 De Luxe 18W/965 SLV/10	22 kWh	B
928044596581	MASTER TL-D 90 De Luxe 36W/965 SLV/10	43 kWh	A

# MASTER TL-D 90 De Luxe

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
928043596581	MASTER TL-D 90 De Luxe 18W/965 SLV/10	0.360 A	18.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
928044596581	MASTER TL-D 90 De Luxe 36W/965 SLV/10	0.440 A	36.0 W

## Light Technical

Order Code	Full Product Name	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
928043596581	MASTER TL-D 90 De Luxe 18W/965 SLV/10	323	63.9 lm/W	1150 lm	1150 lm
928044596581	MASTER TL-D 90 De Luxe	322	77.8 lm/W	2800 lm	2800 lm

Order Code	Full Product Name	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
	36W/965 SLV/10				

