



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

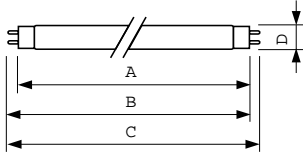
- Used in applications where good colour rendering is crucial, such as shops (flower, fashion, department, etc.), hairdresser, museums, hospitals, etc

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.

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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 58W/965 SLV/10	28 mm	1500.0 mm	1507.1 mm	1504.7 mm	1514.2 mm
MASTER TL-D 90 De Luxe 18W/950 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
MASTER TL-D 90 De Luxe 36W/950 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

Controls and Dimming

Dimmable Yes

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

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

Temperature

Design Temperature (Nom) 25 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/		Energy Efficiency
		1000 h	Label (EEL)	
928043595081	MASTER TL-D 90 De Luxe 18W/950 SLV/10	22 kWh	B	
928043596581	MASTER TL-D 90 De Luxe 18W/965 SLV/10	22 kWh	B	
928044595081	MASTER TL-D 90 De Luxe 36W/950 SLV/10	43 kWh	A	
928044596581	MASTER TL-D 90 De Luxe 36W/965 SLV/10	43 kWh	A	
928045096581	MASTER TL-D 90 De Luxe 58W/965 SLV/10	68 kWh	A	

Operating and Electrical

MASTER TL-D 90 De Luxe

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
928043595081	MASTER TL-D 90 De Luxe 18W/950 SLV/10	0.360 A	18.0 W
928043596581	MASTER TL-D 90 De Luxe 18W/965 SLV/10	0.360 A	18.0 W
928044595081	MASTER TL-D 90 De Luxe 36W/950 SLV/10	0.440 A	36.0 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
928045096581	MASTER TL-D 90 De Luxe 58W/965 SLV/10	0.670 A	58.5 W

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
928043595081	MASTER TL-D 90 De Luxe 18W/950 SLV/10	340	352	950	Daylight
928043596581	MASTER TL-D 90 De Luxe 18W/965 SLV/10	309	323	965	Cool Daylight
928044595081	MASTER TL-D 90 De Luxe 36W/950 SLV/10	340	352	950	Daylight

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
928044596581	MASTER TL-D 90 De Luxe 36W/965 SLV/10	309	322	965	Cool Daylight
928045096581	MASTER TL-D 90 De Luxe 58W/965 SLV/10	309	323	965	Cool Daylight

Light Technical (2/2)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	
					Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
928043595081	MASTER TL-D 90 De Luxe 18W/950 SLV/10	-	92	63.9 lm/W	1150 lm	1150 lm
928043596581	MASTER TL-D 90 De Luxe 18W/965 SLV/10	6500 K	93	63.9 lm/W	1150 lm	1150 lm
928044595081	MASTER TL-D 90 De Luxe 36W/950 SLV/10	-	92	77.8 lm/W	2800 lm	2800 lm

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	
					Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
928044596581	MASTER TL-D 90 De Luxe 36W/965 SLV/10	6500 K	93	77.8 lm/W	2800 lm	2800 lm
928045096581	MASTER TL-D 90 De Luxe 58W/965 SLV/10	6500 K	93	77.8 lm/W	4550 lm	4550 lm

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