



# Seeing colors as they are

## MASTER TL-D 90 Graphica

This TL-D lamp has excellent color rendering which makes it very suitable for the graphical and printing industry to check the quality of printed material.

### Benefits

- Making representation of colors extremely realistic
- Consistent with the strict standards for the graphical industry defined in standard EN-12464
- Enabling customer to switch to excellent color rendering properties with low decrease of light level

### Features

- High-quality fluorescent coating for excellent color rendering and very accurate color point
- Use of mix of three-band phosphors and halophosphates for high efficacy
- Retrofit in current luminaires for standard TL-D lamps

### Application

- Used in applications where excellent color rendering is crucial, such as the graphical industry, printing industry, photo shops, 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 Graphica

## Approval and Application

Mercury (Hg) Content (Max)	2 mg
Mercury (Hg) Content (Nom)	2 mg

## Controls and Dimming

Dimmable	Yes
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## General Information

Cap-Base	G13
Life To 50% Failures Preheat (Nom)	10000 h
Life To 10% Failures (Nom)	6000 h
Life To 50% Failures (Nom)	8000 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)	0.34
Chromaticity Coordinate Y (Nom)	0.351
Colour Code	950
Colour Designation	Daylight
Correlated Colour Temperature (Nom)	5200 K
LLMF 12000 h Rated	82 %
LLMF 16000 h Rated	80 %
LLMF 2000 h Rated	93 %
LLMF 20000 h Rated	78 %
LLMF 4000 h Rated	90 %
LLMF 6000 h Rated	88 %
LLMF 8000 h Rated	85 %

## 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/1000 h
88850125	MASTER TL-D 90 Graphica 18W/950 1SL/10	19 kWh
88864825	MASTER TL-D 90 Graphica 36W/950 1SL/10	37 kWh
88875425	MASTER TL-D 90 Graphica 58W/950 1SL/10	60 kWh

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
88850125	MASTER TL-D 90 Graphica 18W/950 1SL/10	0.360 A	18.4 W
88864825	MASTER TL-D 90 Graphica 36W/950 1SL/10	0.440 A	36.8 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
88875425	MASTER TL-D 90 Graphica 58W/950 1SL/10	0.670 A	59.6 W

## Light Technical

## MASTER TL-D 90 Graphica

Order Code	Full Product Name	Colour Rendering Index (Nom)	Luminous	
			Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
88850125	MASTER TL-D 90 Graphica 18W/950 1SL/10	95	52.8 lm/W (Nom)	960 lm (Nom)
88864825	MASTER TL-D 90 Graphica 36W/950 1SL/10	95	65 lm/W (Nom)	2300 lm (Nom)

Order Code	Full Product Name	Colour Rendering Index (Nom)	Luminous	
			Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
88875425	MASTER TL-D 90 Graphica 58W/950 1SL/10	97	62.7 lm/W (Nom)	3640 lm (Nom)

