



# Product Description

## MASTER TL-D Eco

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

### Benefits

- Simple lamp-for-lamp replacement for more than 10% energy savings
- Makes lighting installations compliant with latest indoor lighting standards
- Relatively high efficacy, both initially and during lifetime, with high lumen maintenance

### Features

- The only T8 fluorescent lamp that saves more than 10% of energy in existing indoor luminaires
- Can be directly retrofitted into existing fluorescent fittings operating on conventional EM or HF gear in indoor applications
- Uses the latest highly efficient phosphors and special filling gas
- High-quality lighting with good colour rendering (CRI>80)
- Light output comparable to other TL-D Super 80 colours
- Lumen maintenance and lifetime the same as other TL-D Super 80 colours
- Dimmable

### Application

- For use in indoor applications with room temperatures above 20 °C (which implies temperature around the lamp of over 25–35 °C)
- Primary focus on offices, schools and hospitals; secondary focus on retail, industry, supermarkets
- Not recommended under the following conditions: - with air flow around the lamps - in luminaires with active air handling (lamp temperature will not be the required 25–35 °C, but room temperature) - in open luminaires/battens very close to air conditioning outlets or cold air flows - in space above freezers (temperature may easily drop below 20 °C) - in combination with VRUs (voltage reduction units)

# MASTER TL-D Eco

## 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.

Approval and application	
Mercury (Hg) Content (Nom)	1.7 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	
Chromaticity Coordinate X (Nom)	0.38
Chromaticity Coordinate Y (Nom)	0.38
Colour Code	840
Colour Designation	Cool White (CW)
Correlated Colour Temperature (Nom)	4000 K
Colour Rendering Index (Nom)	82
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)	30 °C

## Approval and application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
26462640	MASTER TL-D Eco 32W/840 1SL/25	33 kWh
26470140	MASTER TL-D Eco 51W/840 1SL/25	50 kWh
26861740	MASTER TL-D Eco 16W/840 1SL/25	16 kWh

## Operating and electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Nom)
26462640	MASTER TL-D Eco 32W/840 1SL/25	0.448 A	32.4 W
26470140	MASTER TL-D Eco 51W/840 1SL/25	0.700 A	49.8 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Nom)
26861740	MASTER TL-D Eco 16W/840 1SL/25	0.380 A	15.8 W

## Light technical

MASTER TL-D Eco

Order Code	Full Product Name	Luminous	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
		Efficacy (rated) (Nom)		
26462640	MASTER TL-D Eco 32W/840 1SL/25	82 lm/W	2650 lm	2650 lm
26470140	MASTER TL-D Eco 51W/840 1SL/25	89 lm/W	4150 lm	4550 lm

Order Code	Full Product Name	Luminous	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
		Efficacy (rated) (Nom)		
26861740	MASTER TL-D Eco 16W/840 1SL/25	75 lm/W	1100 lm	1175 lm

