



# Simply energy saving

## MASTER TL-D Eco

The MASTER TL-D Eco lamp offers the same light output as a MASTER TL-D Super 80 lamp, while using less energy, thanks to the use of specific phosphors and a special gas filling. Application areas are schools, offices, governmental buildings and healthcare environments.

### 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 luminaires with electromagnetic gear
- Lower power savings with electronic gear depending on type of gear (current- or power-controlled)
- Can be directly retrofitted into existing fluorescent fittings operating on electromagnetic or electronic gear in indoor applications
- Uses the latest highly efficient phosphors and special filling gas
- High-quality lighting with good color rendering (CRI>80)
- Light output comparable to other TL-D Super 80 colors
- Lumen maintenance and lifetime the same as other TL-D Super 80 colors
- Dimmable

# MASTER TL-D Eco

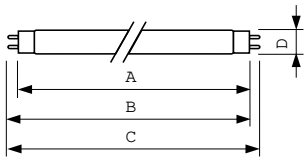
## Application

- 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)

## 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.

## Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL-D Eco 16W/830 SLV/25	28 mm	589.8 mm	596.9 mm	594.5 mm	604.0 mm
MASTER TL-D Eco 16W/840 SLV/25	28 mm	589.8 mm	596.9 mm	594.5 mm	604.0 mm
MASTER TL-D Eco 32W/830 SLV/25	28 mm	1,199.4 mm	1,206.5 mm	1,204.1 mm	1,213.6 mm
MASTER TL-D Eco 32W/840 SLV/25	28 mm	1,199.4 mm	1,206.5 mm	1,204.1 mm	1,213.6 mm
MASTER TL-D Eco 32W/865 SLV/25	28 mm	1,199.4 mm	1,206.5 mm	1,204.1 mm	1,213.6 mm
MASTER TL-D Eco 51W/830 SLV/25	28 mm	1,500.0 mm	1,507.1 mm	1,504.7 mm	1,514.2 mm
MASTER TL-D Eco 51W/840 1SL/25	28 mm	1,500.0 mm	1,507.1 mm	1,504.7 mm	1,514.2 mm
MASTER TL-D Eco 51W/865 SLV/25	28 mm	1,500.0 mm	1,507.1 mm	1,504.7 mm	1,514.2 mm

General Information	
Cap-Base	G13
Light Technical	
Color rendering index (CRI)	82
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb Shape	T8
Approval and Application	
Mercury (Hg) Content (Nom)	1.7 mg

# MASTER TL-D Eco

## Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Designation	Correlated Color	Luminous Efficacy	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)		Temperature (Nom)	(rated) (Nom)	
927921183023	MASTER TL-D Eco 32W/830 SLV/25	0.44	0.403	Warm White (WW)	3000 K	82 lm/W	2,650 lm
927921184023	MASTER TL-D Eco 32W/840 SLV/25	0.38	0.38	Cool White (CW)	4000 K	82 lm/W	2,650 lm
927921186523	MASTER TL-D Eco 32W/865 SLV/25	0.313	0.337	Cool Daylight	6500 K	79 lm/W	2,550 lm
927922183023	MASTER TL-D Eco 51W/830 SLV/25	0.44	0.403	Warm White (WW)	3000 K	89 lm/W	4,150 lm
927922184023	MASTER TL-D Eco 51W/840 1SL/25	0.38	0.38	Cool White (CW)	4000 K	89 lm/W	4,150 lm
927922186523	MASTER TL-D Eco 51W/865 SLV/25	0.313	0.337	Cool Daylight	6500 K	84 lm/W	3,925 lm
927922883015	MASTER TL-D Eco 16W/830 SLV/25	0.44	0.403	Warm White (WW)	3000 K	75 lm/W	1,100 lm
927922884015	MASTER TL-D Eco 16W/840 SLV/25	0.38	0.38	Cool White (CW)	4000 K	75 lm/W	1,100 lm

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption	Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
927921183023	MASTER TL-D Eco 32W/830 SLV/25	0.448 A	32.4 W	927922184023	MASTER TL-D Eco 51W/840 1SL/25	0.700 A	49.8 W
927921184023	MASTER TL-D Eco 32W/840 SLV/25	0.448 A	32.4 W	927922186523	MASTER TL-D Eco 51W/865 SLV/25	0.700 A	49.8 W
927921186523	MASTER TL-D Eco 32W/865 SLV/25	0.448 A	32.4 W	927922883015	MASTER TL-D Eco 16W/830 SLV/25	0.380 A	15.8 W
927922183023	MASTER TL-D Eco 51W/830 SLV/25	0.700 A	49.8 W	927922884015	MASTER TL-D Eco 16W/840 SLV/25	0.380 A	15.8 W

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Order Code	Full Product Name	Energy Consumption kWh/1000 h
927921183023	MASTER TL-D Eco 32W/830 SLV/25	33 kWh	927922184023	MASTER TL-D Eco 51W/840 1SL/25	50 kWh
927921184023	MASTER TL-D Eco 32W/840 SLV/25	33 kWh	927922186523	MASTER TL-D Eco 51W/865 SLV/25	50 kWh
927921186523	MASTER TL-D Eco 32W/865 SLV/25	33 kWh	927922883015	MASTER TL-D Eco 16W/830 SLV/25	16 kWh
927922183023	MASTER TL-D Eco 51W/830 SLV/25	50 kWh	927922884015	MASTER TL-D Eco 16W/840 SLV/25	16 kWh

