



The world's most efficient and brightest fluorescent lighting

MASTER TL5 High Output Eco

This extremely efficient TL5 lamp (tube diameter 16 mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HO Eco lamp is optimized for installations requiring high light output and offers excellent lumen maintenance and color rendering. Application areas vary from offices and industry to schools and retail environments.

Benefits

- Up to 10 % energy saving with simply changing the lamp
- The same quality of light as compared with MASTER TL5 HO lamps
- All benefits of regular TL5 lamps

Features

- High lamp efficacies up to 109 lm/W
- Up to 10% power reduction in comparison with standard MASTER TL5 HO lamps

Application

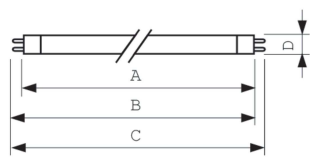
- Offers very economic solutions for high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

Warnings and Safety

- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.
- 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 TL5 High Output Eco

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO Eco 20=24W/830 UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HO Eco 20=24W/840 UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HO Eco 45=49W/830 UNP/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO Eco 45=49W/840 UNP/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO Eco 50=54W/830 UNP/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO Eco 50=54W/840 UNP/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO Eco 50=54W/865 UNP/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO Eco 73=80W/830 UNP/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO Eco 73=80W/840 UNP/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm

General Information	
Cap-Base	G5
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb Shape	T5
Approval and Application	
Mercury (Hg) Content (Nom)	1.2 mg

Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Designation	Correlated Color Temperature (Nom)	Color rendering	Luminous Efficacy (rated) (Nom)	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)			index (CRI)		
88084700	MASTER TL5 HO Eco 20=24W/830 UNP/40	-	-	Warm White (WW)	3000 K	82	85 lm/W	1,950 lm
88086100	MASTER TL5 HO Eco 20=24W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	85 lm/W	1,650 lm
82590900	MASTER TL5 HO Eco 50=54W/830 UNP/40	-	-	Warm White (WW)	3000 K	85	93 lm/W	5,000 lm
82591600	MASTER TL5 HO Eco 50=54W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	93 lm/W	4,400 lm
90183200	MASTER TL5 HO Eco 50=54W/865 UNP/40	-	-	Cool Daylight	6500 K	85	86 lm/W	4,650 lm
82594700	MASTER TL5 HO Eco 45=49W/830 UNP/40	-	-	Warm White (WW)	3000 K	82	92 lm/W	4,900 lm

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Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
82595400	MASTER TL5 HO Eco 45=49W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	92 lm/W	4,225 lm
82596100	MASTER TL5 HO Eco 73=80W/830 UNP/40	-	-	Warm White (WW)	3000 K	82	89 lm/W	7,000 lm
82597800	MASTER TL5 HO Eco 73=80W/840 UNP/40	-	-	Cool White (CW)	4000 K	82	89 lm/W	7,000 lm

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
88084700	MASTER TL5 HO Eco 20=24W/830 UNP/40	0.300 A	19.5 W
88086100	MASTER TL5 HO Eco 20=24W/840 UNP/40	0.300 A	19.3 W
82590900	MASTER TL5 HO Eco 50=54W/830 UNP/40	0.460 A	48 W
82591600	MASTER TL5 HO Eco 50=54W/840 UNP/40	0.460 A	49.3 W
90183200	MASTER TL5 HO Eco 50=54W/865 UNP/40	0.460 A	48 W

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
82594700	MASTER TL5 HO Eco 45=49W/830 UNP/40	0.260 A	44.6 W
82595400	MASTER TL5 HO Eco 45=49W/840 UNP/40	0.260 A	45.4 W
82596100	MASTER TL5 HO Eco 73=80W/830 UNP/40	0.550 A	73.3 W
82597800	MASTER TL5 HO Eco 73=80W/840 UNP/40	0.550 A	73.3 W

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h
88084700	MASTER TL5 HO Eco 20=24W/830 UNP/40	22 kWh
88086100	MASTER TL5 HO Eco 20=24W/840 UNP/40	20 kWh
82590900	MASTER TL5 HO Eco 50=54W/830 UNP/40	54 kWh
82591600	MASTER TL5 HO Eco 50=54W/840 UNP/40	50 kWh
90183200	MASTER TL5 HO Eco 50=54W/865 UNP/40	54 kWh

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h
82594700	MASTER TL5 HO Eco 45=49W/830 UNP/40	50 kWh
82595400	MASTER TL5 HO Eco 45=49W/840 UNP/40	46 kWh
82596100	MASTER TL5 HO Eco 73=80W/830 UNP/40	80 kWh
82597800	MASTER TL5 HO Eco 73=80W/840 UNP/40	80 kWh

