



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.

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Versions



G5, T5

Dimensional drawing

Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO Eco 34=39W/840 1SL/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
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 73=80W/830 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO Eco 45=49W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO Eco 50=54W/830 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO Eco 45=49W/830 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO Eco 50=54W/840 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 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 50=54W/865 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO Eco 73=80W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm

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Approval and Application

Mercury (Hg) Content (Nom) 1.4 mg

Controls and Dimming

Dimmable Yes

General Information

Cap-Base G5
 Life To 50% Failures Preheat (Nom) 30000 h
 LSF Preheat 16000 h Rated 99 %
 LSF Preheat 20000 h Rated 94 %
 LSF Preheat 2000 h Rated 99 %
 LSF Preheat 4000 h Rated 99 %
 LSF Preheat 6000 h Rated 99 %
 LSF Preheat 8000 h Rated 99 %

Light Technical

Color Rendering Index (Max) 85
 Color Rendering Index (Min) 80
 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 T5

Temperature

Design Temperature (Nom) 35 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h	Mercury (Hg) Content (Max)
927989983031	MASTER TL5 HO Eco 20=24W/830 UNP/40	22 kWh	-
927989984031	MASTER TL5 HO Eco 20=24W/840 UNP/40	20 kWh	1.4 mg
927991283031	MASTER TL5 HO Eco 50=54W/830 UNP/40	54 kWh	-
927991284031	MASTER TL5 HO Eco 50=54W/840 UNP/40	50 kWh	1.4 mg
927991286531	MASTER TL5 HO Eco 50=54W/865 UNP/40	54 kWh	-
927991783031	MASTER TL5 HO Eco 45=49W/830 UNP/40	50 kWh	-
927991784031	MASTER TL5 HO Eco 45=49W/840 UNP/40	46 kWh	1.4 mg
927991883031	MASTER TL5 HO Eco 73=80W/830 UNP/40	80 kWh	-
927991884031	MASTER TL5 HO Eco 73=80W/840 UNP/40	80 kWh	-
927992384033	MASTER TL5 HO Eco 34=39W/840 1SL/40	38 kWh	-

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927989983031	MASTER TL5 HO Eco 20=24W/830 UNP/40	0.300 A	19.5 W
927989984031	MASTER TL5 HO Eco 20=24W/840 UNP/40	0.300 A	19.3 W
927991283031	MASTER TL5 HO Eco 50=54W/830 UNP/40	0.460 A	48 W
927991284031	MASTER TL5 HO Eco 50=54W/840 UNP/40	0.460 A	49.3 W
927991286531	MASTER TL5 HO Eco 50=54W/865 UNP/40	0.460 A	48 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927991783031	MASTER TL5 HO Eco 45=49W/830 UNP/40	0.260 A	44.6 W
927991784031	MASTER TL5 HO Eco 45=49W/840 UNP/40	0.260 A	45.4 W
927991883031	MASTER TL5 HO Eco 73=80W/830 UNP/40	0.550 A	73.3 W
927991884031	MASTER TL5 HO Eco 73=80W/840 UNP/40	0.550 A	73.3 W
927992384033	MASTER TL5 HO Eco 34=39W/840 1SL/40	0.340 A	34.6 W

Light Technical (1/2)

MASTER TL5 High Output Eco

Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Color Code	Color Designation
927989983031	MASTER TL5 HO Eco 20=24W/830 UNP/40	-	-	830	Warm White (WW)
927989984031	MASTER TL5 HO Eco 20=24W/840 UNP/40	0.38	0.38	840	Cool White (CW)
927991283031	MASTER TL5 HO Eco 50=54W/830 UNP/40	-	-	830	Warm White (WW)
927991284031	MASTER TL5 HO Eco 50=54W/840 UNP/40	0.38	0.38	840	Cool White (CW)
927991286531	MASTER TL5 HO Eco 50=54W/865 UNP/40	-	-	865	Cool Daylight

Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Color Code	Color Designation
927991783031	MASTER TL5 HO Eco 45=49W/830 UNP/40	-	-	830	Warm White (WW)
927991784031	MASTER TL5 HO Eco 45=49W/840 UNP/40	0.38	0.38	840	Cool White (CW)
927991883031	MASTER TL5 HO Eco 73=80W/830 UNP/40	-	-	830	Warm White (WW)
927991884031	MASTER TL5 HO Eco 73=80W/840 UNP/40	-	-	840	Cool White (CW)
927992384033	MASTER TL5 HO Eco 34=39W/840 1SL/40	-	-	840	Cool White (CW)

Light Technical (2/2)

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color		Luminous Efficacy (@)		
			Rendering Index (Nom)	Max Lumen, Rated (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927989983031	MASTER TL5 HO Eco 20=24W/830 UNP/40	3000 K	82	99 lm/W	85 lm/W	1950 lm	1650 lm
927989984031	MASTER TL5 HO Eco 20=24W/840 UNP/40	4000 K	80	99 lm/W	85 lm/W	1650 lm	1650 lm
927991283031	MASTER TL5 HO Eco 50=54W/830 UNP/40	3000 K	85	102 lm/W	93 lm/W	5000 lm	4450 lm
927991284031	MASTER TL5 HO Eco 50=54W/840 UNP/40	4000 K	80	102 lm/W	93 lm/W	4400 lm	4450 lm
927991286531	MASTER TL5 HO Eco 50=54W/865 UNP/40	6500 K	85	95 lm/W	86 lm/W	4650 lm	4150 lm
927991783031	MASTER TL5 HO Eco 45=49W/830 UNP/40	3000 K	82	108 lm/W	92 lm/W	4900 lm	4100 lm
927991784031	MASTER TL5 HO Eco 45=49W/840 UNP/40	4000 K	80	108 lm/W	92 lm/W	4225 lm	4100 lm
927991883031	MASTER TL5 HO Eco 73=80W/830 UNP/40	3000 K	82	95 lm/W	89 lm/W	7000 lm	6550 lm
927991884031	MASTER TL5 HO Eco 73=80W/840 UNP/40	4000 K	82	95 lm/W	89 lm/W	7000 lm	6550 lm
927992384033	MASTER TL5 HO Eco 34=39W/840 1SL/40	4000 K	85	102 lm/W	94 lm/W	3500 lm	3250 lm

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