PHILIPS Lighting



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 colour rendering. Application areas vary from offices and industry to schools and retail environments.

Benefits

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

Features

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

Application

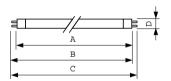
- Offers very economic solutions for high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furnituremounted luminaires in offices, workshops, restaurants and reception areas

MASTER TL5 High Output Eco

Versions



Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO Eco	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
50=54W/840 1SL/40					
MASTER TL5 HO Eco	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
20=24W/840 1SL/40					
MASTER TL5 HO Eco	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
73=80W/840 1SL/40					

MASTER TL5 High Output Eco

Approval and Application	
Energy Efficiency Label (EEL)	A+
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	
Colour Code	840
Colour Designation	Cool White (CW)
Correlated Colour Temperature (Nom)	4000 K
Colour Rendering Index (Max)	85
Colour 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
927989984033	MASTER TL5 HO Eco 20=24W/840 1SL/40	22 kWh
927991284033	MASTER TL5 HO Eco 50=54W/840 1SL/40	54 kWh
927991884033	MASTER TL5 HO Eco 73=80W/840 1SL/40	80 kWh

Operating and Electrical

		Lamp Current	Power (Rated)	
Order Code	Full Product Name	(Nom)	(Nom)	0
927989984033	MASTER TL5 HO Eco 20=24W/840	0.300 A	19.5 W	92
	1SL/40			
927991284033	MASTER TL5 HO Eco 50=54W/840	0.460 A	48 W	
	1SL/40			

		Lamp Current	Power (Rated)
Order Code	Full Product Name	(Nom)	(Nom)
927991884033	MASTER TL5 HO Eco 73=80W/840	0.550 A	73.3 W
	1SL/40		

Light Technical (1/2)

MASTER TL5 High Output Eco

			Luminous						Luminous		
		Colour	Efficacy (@	Luminous				Colour	Efficacy (@	Luminous	
		Rendering	Max Lumen,	Efficacy				Rendering	Max Lumen,	Efficacy	
	Full Product	Index	Rated)	(rated)	Luminous		Full Product	Index	Rated)	(rated)	Luminous
Order Code	Name	(Nom)	(Nom)	(Nom)	Flux (Nom)	Order Code	Name	(Nom)	(Nom)	(Nom)	Flux (Nom)
927989984033	MASTER TL5	82	99 lm/W	85 lm/W	1950 lm		50=54W/840				
	HO Eco						1SL/40				
	20=24W/840					927991884033	MASTER TL5	82	95 lm/W	89 lm/W	7000 lm
	1SL/40						HO Eco				
927991284033	MASTER TL5	85	102 lm/W	93 lm/W	5000 lm		73=80W/840				
	HO Eco						1SL/40				

Light Technical (2/2)

		Luminous Flux (Rated)
Order Code	Full Product Name	(Nom)
927989984033	MASTER TL5 HO Eco 20=24W/840 1SL/40	1650 lm
927991284033	MASTER TL5 HO Eco 50=54W/840 1SL/40	4450 lm

		Luminous Flux (Rated)
Order Code	Full Product Name	(Nom)
927991884033	MASTER TL5 HO Eco 73=80W/840 1SL/40	6550 lm



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