



# Temperature independent fluorescent lighting

## MASTER TL5 High Output TOP

This TL5 HO lamp (tube diameter 16 mm) offers a constant light level, independent of temperature fluctuations, making it an excellent solution for warm applications. The TL5 HO TOP can be operated on equivalent systems as MASTER TL5 HO. Excellent solution for warm applications, such as unconditioned warehouses, wall washers, etc.

### Benefits

- Constant lumen level over a wide temperature range (20-75 °C) with excellent lumen maintenance
- Optimized for installations which need high luminous flux, especially in hot (above 40 °C) conditions
- Allows system miniaturization with maximum luminaire design freedom
- Retrofit to current TL5 HO non-amalgam lamps

### Features

- Lumen output higher than 90% of maximum value at ambient lamp temperatures from 20 to 75 °C due to amalgam-controlled operation
- Allows dimming-down to 30% light output
- Hot restrike and good run-up behavior compared to high intensity discharge lamps due to auxiliary amalgams at both lamp ends
- Can be ignited at temperatures from -15 to +75 °C

# MASTER TL5 High Output TOP

## Application

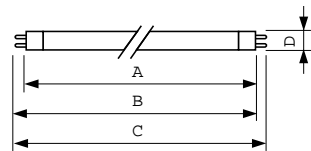
- Architectural lighting and customized solutions thanks to compact lamp size and high lumen package, especially in hot (above 40 °C) conditions
- Economic solutions with high-ceiling lighting in retail and industrial application areas
- Especially uplighting applications in offices where higher lumen packages are needed
- Esthetic pendants, closed and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

## Versions



G5, T5

## Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO TOP 49W/840 1SL/20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO TOP 54W/840 1SL/20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

MASTER TL5 High Output TOP

Approval and Application	
Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	2.2 mg
Controls and Dimming	
Dimmable	Yes
General Information	
Cap-Base	G5
Life To 50% Failures Preheat (Nom)	30000 h
LSF Preheat 16000 h Rated	97 %
LSF Preheat 20000 h Rated	84 %
LSF Preheat 2000 h Rated	99 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	99 %
System Description	High Output
Light Technical	
Color Code	840
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Color Rendering Index (Max)	85
Color Rendering Index (Min)	80
Color Rendering Index (Nom)	85
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 (Max)	75 °C
Design Temperature (Min)	20 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927991684041	MASTER TL5 HO TOP 49W/840 1SL/20	54 kWh
927993284041	MASTER TL5 HO TOP 54W/840 1SL/20	59 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927991684041	MASTER TL5 HO TOP 49W/840 1SL/20	0.255 A	49.2 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927993284041	MASTER TL5 HO TOP 54W/840 1SL/20	0.455 A	54.1 W

Light Technical

MASTER TL5 High Output TOP

Order Code	Full Product Name	Luminous	Luminous	Luminous	Luminous
		Efficacy (@	Efficacy	Flux	Flux (Rated)
		Max Lumen, Rated) (Nom)	(rated) (Nom)	Flux (Nom)	(Nom)
927991684041	MASTER TL5 HO TOP 49W/840 1SL/20	99 lm/W	95 lm/W	4900 lm	4650 lm

Order Code	Full Product Name	Luminous	Luminous	Luminous	Luminous
		Efficacy (@	Efficacy	Flux	Flux (Rated)
		Max Lumen, Rated) (Nom)	(rated) (Nom)	Flux (Nom)	(Nom)
927993284041	MASTER TL5 HO TOP 54W/840 1SL/20	93 lm/W	88 lm/W	5000 lm	4750 lm

