



Product Description

MASTER TL5 High Output

Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Benefits

- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Optimised for installations which need high luminous flux
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Features

- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturisation
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Application

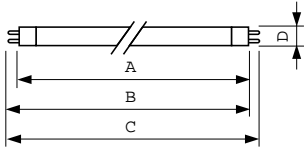
- The combination of a compact lamp and high lumen package of the MASTER TL5 HO offers exciting opportunities for architectural lighting and customised solutions
- Offers economic solutions with high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

Warnings and Safety

- A 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

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO 54W/830 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 49W/865 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 49W/840 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 39W/830 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HO 54W/840 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 49W/830 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 24W/840 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HO 54W/865 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 39W/865 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HO 80W/840 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 39W/840 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HO 24W/865 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HO 24W/830 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm

MASTER TL5 High Output

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	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 (HO)

Light Technical

Colour Rendering Index (Max)	85
Colour Rendering Index (Min)	80
LLMF 12000 h Rated	92 %
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/	Energy Efficiency Label
		1000 h	(EEL)
927927583055	MASTER TL5 HO 49W/830 SLV/40	54 kWh	A+
927927584055	MASTER TL5 HO 49W/840 SLV/40	54 kWh	A+
927927586555	MASTER TL5 HO 49W/865 SLV/40	54 kWh	A+
927928083055	MASTER TL5 HO 24W/830 SLV/40	25 kWh	A
927928084055	MASTER TL5 HO 24W/840 SLV/40	25 kWh	A
927928086555	MASTER TL5 HO 24W/865 SLV/40	25 kWh	A
927928583055	MASTER TL5 HO 39W/830 SLV/40	42 kWh	A+
927928584055	MASTER TL5 HO 39W/840 SLV/40	42 kWh	A+
927928586555	MASTER TL5 HO 39W/865 SLV/40	42 kWh	A
927929083055	MASTER TL5 HO 54W/830 SLV/40	59 kWh	A+
927929084055	MASTER TL5 HO 54W/840 SLV/40	59 kWh	A+
927929086555	MASTER TL5 HO 54W/865 SLV/40	59 kWh	A
927929584057	MASTER TL5 HO 80W/840 SLV/40	88 kWh	A

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927927583055	MASTER TL5 HO 49W/830 SLV/40	0.255 A	49.2 W
927927584055	MASTER TL5 HO 49W/840 SLV/40	0.255 A	49.2 W
927927586555	MASTER TL5 HO 49W/865 SLV/40	0.255 A	49.2 W
927928083055	MASTER TL5 HO 24W/830 SLV/40	0.295 A	22.5 W
927928084055	MASTER TL5 HO 24W/840 SLV/40	0.295 A	22.5 W
927928086555	MASTER TL5 HO 24W/865 SLV/40	0.295 A	22.5 W
927928583055	MASTER TL5 HO 39W/830 SLV/40	0.325 A	38.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927928584055	MASTER TL5 HO 39W/840 SLV/40	0.325 A	38.0 W
927928586555	MASTER TL5 HO 39W/865 SLV/40	0.325 A	38.0 W
927929083055	MASTER TL5 HO 54W/830 SLV/40	0.455 A	54.1 W
927929084055	MASTER TL5 HO 54W/840 SLV/40	0.455 A	54.1 W
927929086555	MASTER TL5 HO 54W/865 SLV/40	0.455 A	54.1 W
927929584057	MASTER TL5 HO 80W/840 SLV/40	0.530 A	79.8 W

Light Technical (1/2)

MASTER TL5 High Output

Order Code	Full Product Name	Colour Code	Colour Designation	Correlated Colour	Colour Rendering
				Temperature (Nom)	Index (Nom)
927927583055	MASTER TL5 HO 49W/830 SLV/40	830	Warm white (WW)	3000 K	82
927927584055	MASTER TL5 HO 49W/840 SLV/40	840	Cool White (CW)	4000 K	82
927927586555	MASTER TL5 HO 49W/865 SLV/40	865	Cool Daylight	6500 K	82
927928083055	MASTER TL5 HO 24W/830 SLV/40	830	Warm white (WW)	3000 K	82
927928084055	MASTER TL5 HO 24W/840 SLV/40	840	Cool White (CW)	4000 K	82
927928086555	MASTER TL5 HO 24W/865 SLV/40	865	Cool Daylight	6500 K	82
927928583055	MASTER TL5 HO 39W/830 SLV/40	830	Warm white (WW)	3000 K	82

Order Code	Full Product Name	Colour Code	Colour Designation	Correlated Colour	Colour Rendering
				Temperature (Nom)	Index (Nom)
927928584055	MASTER TL5 HO 39W/840 SLV/40	840	Cool White (CW)	4000 K	82
927928586555	MASTER TL5 HO 39W/865 SLV/40	865	Cool Daylight	6500 K	82
927929083055	MASTER TL5 HO 54W/830 SLV/40	830	Warm white (WW)	3000 K	85
927929084055	MASTER TL5 HO 54W/840 SLV/40	840	Cool White (CW)	4000 K	85
927929086555	MASTER TL5 HO 54W/865 SLV/40	865	Cool Daylight	6500 K	85
927929584057	MASTER TL5 HO 80W/840 SLV/40	840	Cool White (CW)	4000 K	82

Light Technical (2/2)

Order Code	Full Product Name	LLMF Rated	Luminous Efficacy (@)			
			Max Lumen (Rated) (Nom)	Max Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927927583055	MASTER TL5 HO 49W/830 SLV/40	91 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927584055	MASTER TL5 HO 49W/840 SLV/40	90 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927586555	MASTER TL5 HO 49W/865 SLV/40	91 %	92 lm/W	83 lm/W	4550 lm	4075 lm
927928083055	MASTER TL5 HO 24W/830 SLV/40	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
927928084055	MASTER TL5 HO	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm

Order Code	Full Product Name	LLMF Rated	Luminous Efficacy (@)			
			Max Lumen (Rated) (Nom)	Max Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927928086555	MASTER TL5 HO 24W/865 SLV/40	91 %	81 lm/W	72 lm/W	1825 lm	1575 lm
927928583055	MASTER TL5 HO 39W/830 SLV/40	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928584055	MASTER TL5 HO 39W/840 SLV/40	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928586555	MASTER TL5 HO 39W/865 SLV/40	91 %	86 lm/W	76 lm/W	3250 lm	2875 lm

MASTER TL5 High Output

Order Code	Full Product Name	Luminous Efficacy (@ 16000 h)				
		LLMF Rated	Max Lumen (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927929083055	MASTER TL5 HO 54W/830 SLV/40	91 %	93 lm/W	83 lm/W	5000 lm	4500 lm
927929084055	MASTER TL5 HO 54W/840 SLV/40	91 %	93 lm/W	83 lm/W	5000 lm	4500 lm
927929086555	MASTER TL5 HO	91 %	86 lm/W	78 lm/W	4650 lm	4200 lm

Order Code	Full Product Name	Luminous Efficacy (@ 16000 h)				
		LLMF Rated	Max Lumen (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
	54W/865 SLV/40					
927929584057	MASTER TL5 HO 80W/840 SLV/40	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm

