



The world's brightest fluorescent lighting

MASTER TL5 High Output

This TL5 lamp (tube diameter 16 mm) offers high light output. The TL5 HO 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

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

Features

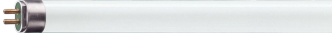
- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturization
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well-suited for dimming
- Maximum light output reached at approximately 35 °C in free-burning position if an electronic driver with cut-off feature 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 customized 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

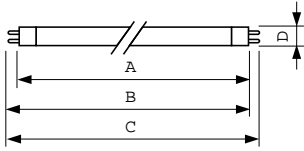
MASTER TL5 High Output

Versions



MASTER TL5 High Output

Dimensional drawing



Product	D	A	B	B	C
MASTER TL5 HO 54W/830 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 54W/830 SLV/20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
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/865 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 49W/840 SLV/20	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 49W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 54W/827 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 80W/830 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 80W/830 UNP/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 39W/830 UNP/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HO 54W/840 SLV/20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 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 54W/840 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 24W/827 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HO 49W/830 SLV/20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 49W/830 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 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 UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HO 24W/840 1SL/20	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 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 49W/827 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 54W/865 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

MASTER TL5 High Output

Dimensional drawing

Product	D	A	B	B	C
MASTER TL5 HO 39W/865 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HO 54W/850 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO 80W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 80W/840 SLV/20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 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/20	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HO 39W/840 UNP/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 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 80W/865 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 80W/865 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO 24W/865 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
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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

Bulb Shape T5

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 Rendering Index (Max) 85

Color 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 %

Temperature

Design Temperature (Nom) 35 °C

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
927927582755	54 kWh	A+
927927583018	54 kWh	A+
927927583055	54 kWh	A+
927927583061	54 kWh	A+
927927584018	54 kWh	A+
927927584055	54 kWh	A+
927927584061	54 kWh	A+
927927586518	54 kWh	A+
927927586555	54 kWh	A+
927928082755	25 kWh	A
927928083018	25 kWh	A
927928083055	25 kWh	A
927928084018	25 kWh	A
927928084055	25 kWh	A
927928084061	25 kWh	A
927928086555	25 kWh	A
927928582739	42 kWh	A+
927928583018	42 kWh	A+
927928583055	42 kWh	A+
927928584018	42 kWh	A+
927928584055	42 kWh	A+
927928584061	42 kWh	A+
927928586555	42 kWh	A
927929082755	59 kWh	A+
927929083018	59 kWh	A+
927929083055	59 kWh	A+
927929083061	59 kWh	A+
927929084018	59 kWh	A+
927929084055	59 kWh	A+
927929084061	59 kWh	A+
927929085018	59 kWh	A+
927929086555	59 kWh	A
927929583018	88 kWh	A
927929583057	88 kWh	A
927929584018	88 kWh	A
927929584057	88 kWh	A
927929584061	88 kWh	A
927929586518	88 kWh	A
927929586557	88 kWh	A

Operating and Electrical

order code	Lamp Current (Nom)	Power (Rated) (Nom)	order code	Lamp Current (Nom)	Power (Rated) (Nom)
927927582755	0.255 A	49.2 W	927927586518	0.255 A	49.2 W
927927583018	0.255 A	49.2 W	927927586555	0.255 A	49.2 W
927927583055	0.255 A	49.2 W	927928082755	0.295 A	22.5 W
927927583061	0.255 A	49.2 W	927928083018	0.295 A	22.5 W
927927584018	0.255 A	49.2 W	927928083055	0.295 A	22.5 W
927927584055	0.255 A	49.2 W	927928084018	0.295 A	22.5 W
927927584061	0.255 A	49.2 W	927928084055	0.295 A	22.5 W

MASTER TL5 High Output

order code	Lamp Current (Nom)	Power (Rated) (Nom)
927928084061	0.295 A	22.5 W
927928086555	0.295 A	22.5 W
927928582739	0.325 A	38.0 W
927928583018	0.325 A	38.0 W
927928583055	0.325 A	38.0 W
927928584018	0.325 A	38.0 W
927928584055	0.325 A	38.0 W
927928584061	0.325 A	38.0 W
927928586555	0.325 A	38.0 W
927929082755	0.455 A	54.1 W
927929083018	0.455 A	54.1 W
927929083055	0.455 A	54.1 W
927929083061	0.455 A	54.1 W

order code	Lamp Current (Nom)	Power (Rated) (Nom)
927929084018	0.455 A	54.1 W
927929084055	0.455 A	54.1 W
927929084061	0.455 A	54.1 W
927929085018	0.455 A	54.1 W
927929086555	0.455 A	54.1 W
927929583018	0.530 A	79.8 W
927929583057	0.530 A	79.8 W
927929584018	0.530 A	79.8 W
927929584057	0.530 A	79.8 W
927929584061	0.530 A	79.8 W
927929586518	0.530 A	80 W
927929586557	0.530 A	80 W

Light Technical (1/2)

order code	Chromaticity	Chromaticity	Color Code	Color Designation	Correlated Color
	Coordinate X (Nom)	Coordinate Y (Nom)			Temperature (Nom)
927927582755	463	420	827	Incandescent White	2700 K
927927583018	440	403	830	Warm White (WW)	3000 K
927927583055	440	403	830	Warm White (WW)	3000 K
927927583061	440	403	830	Warm White (WW)	3000 K
927927584018	380	380	840	Cool White (CW)	4100 K
927927584055	380	380	840	Cool White (CW)	4100 K
927927584061	380	380	840	Cool White (CW)	4100 K
927927586518	313	337	865	Cool Daylight	6500 K
927927586555	313	337	865	Cool Daylight	6500 K
927928082755	463	420	827	Incandescent White	2700 K
927928083018	440	403	830	Warm White (WW)	3000 K
927928083055	440	403	830	Warm White (WW)	3000 K
927928084018	380	380	840	Cool White (CW)	4100 K
927928084055	380	380	840	Cool White (CW)	4100 K
927928084061	380	380	840	Cool White (CW)	4100 K
927928086555	313	337	865	Cool Daylight	6500 K
927928582739	463	420	827	Incandescent White	2700 K
927928583018	440	403	830	Warm White (WW)	3000 K
927928583055	440	403	830	Warm White (WW)	3000 K

order code	Chromaticity	Chromaticity	Color Code	Color Designation	Correlated Color
	Coordinate X (Nom)	Coordinate Y (Nom)			Temperature (Nom)
927928584018	380	380	840	Cool White (CW)	4100 K
927928584055	380	380	840	Cool White (CW)	4100 K
927928584061	380	380	840	Cool White (CW)	4100 K
927928586555	313	337	865	Cool Daylight	6500 K
927929082755	463	420	827	Incandescent White	2700 K
927929083018	440	403	830	Warm White (WW)	3000 K
927929083055	440	403	830	Warm White (WW)	3000 K
927929083061	440	403	830	Warm White (WW)	3000 K
927929084018	380	380	840	Cool White (CW)	4100 K
927929084055	380	380	840	Cool White (CW)	4100 K
927929084061	380	380	840	Cool White (CW)	4100 K
927929085018	346	359	850	Daylight	5000 K
927929086555	313	337	865	Cool Daylight	6500 K
927929583018	440	403	830	Warm White (WW)	3000 K
927929583057	440	403	830	Warm White (WW)	3000 K
927929584018	380	380	840	Cool White (CW)	4100 K
927929584057	380	380	840	Cool White (CW)	4100 K
927929584061	380	380	840	Cool White (CW)	4100 K
927929586518	313	337	865	Cool Daylight	6500 K
927929586557	313	337	865	Cool Daylight	6500 K

Light Technical (2/2)

MASTER TL5 High Output

order code	Color Rendering Index		Luminous Efficacy (@ Max Lumen, Rated)			
	(Nom)	LLMF 16000 h Rated	(Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927927582755	82	91 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927583018	82	91 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927583055	82	91 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927583061	82	91 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927584018	82	90 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927584055	82	90 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927584061	82	90 %	99 lm/W	89 lm/W	4900 lm	4375 lm
927927586518	82	91 %	92 lm/W	83 lm/W	4550 lm	4075 lm
927927586555	82	91 %	92 lm/W	83 lm/W	4550 lm	4075 lm
927928082755	82	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
927928083018	82	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
927928083055	82	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
927928084018	82	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
927928084055	82	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
927928084061	82	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
927928086555	82	91 %	81 lm/W	72 lm/W	1825 lm	1575 lm
927928582739	82	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928583018	82	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928583055	82	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928584018	82	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928584055	82	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928584061	82	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
927928586555	82	91 %	86 lm/W	76 lm/W	3250 lm	2875 lm
927929082755	85	91 %	93 lm/W	82 lm/W	5000 lm	4450 lm
927929083018	85	91 %	93 lm/W	82 lm/W	5000 lm	4450 lm
927929083055	85	91 %	93 lm/W	82 lm/W	5000 lm	4450 lm
927929083061	85	91 %	93 lm/W	82 lm/W	5000 lm	4450 lm
927929084018	85	91 %	93 lm/W	82 lm/W	5000 lm	4450 lm
927929084055	85	91 %	93 lm/W	82 lm/W	5000 lm	4450 lm
927929084061	85	91 %	93 lm/W	82 lm/W	5000 lm	4450 lm
927929085018	85	91 %	89 lm/W	79 lm/W	4800 lm	4275 lm
927929086555	85	91 %	86 lm/W	77 lm/W	4650 lm	4150 lm
927929583018	82	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
927929583057	82	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
927929584018	82	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
927929584057	82	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
927929584061	82	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
927929586518	82	91 %	83 lm/W	79 lm/W	6300 lm	6300 lm
927929586557	82	91 %	83 lm/W	79 lm/W	6300 lm	6300 lm

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