PHILIPS

Lighting

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 llight 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

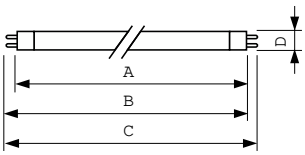
- The combination of a compact lamp and high lumen package of the MASTER TL5 HO offers exciting opportunities for architectural lighting and customized solutions
- Offers economic solutions with high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results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

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.

Dimensional drawing

MASTER TL5 High Output



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO 24W/830 SLV/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 24W/840 UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 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 39W/830 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 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 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 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 49W/830 SLV/20	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 49W/830 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 49W/830 UNP/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 49W/840 SLV/20	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 49W/840 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 49W/840 UNP/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 49W/865 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 54W/830 SLV/20	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO 54W/830 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO 54W/830 UNP/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO 54W/840 SLV/20	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO 54W/840 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO 54W/840 UNP/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO 54W/865 SLV/40	17 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
MASTER TL5 HO 80W/830 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 80W/840 SLV/20	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 80W/840 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm

MASTER TL5 High Output

Dimensional drawing

Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO 80W/840 UNP/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm
MASTER TL5 HO 80W/865 SLV/40	17 mm	1,449.0 mm	1,456.1 mm	1,453.7 mm	1,463.2 mm

General Information

Cap-Base	G5

Controls and Dimming

Dimmable	Yes

Mechanical and Housing

Bulb Shape	T5

Approval and Application

Mercury (Hg) Content (Nom)	1.2 mg

Light Technical

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
927927583018	MASTER TL5 HO 49W/830 UNP/40	0.44	0.403	Warm White (WW)	3000 K	82	89 lm/W	4,375 lm
927927583055	MASTER TL5 HO 49W/830 SLV/40	0.44	0.403	Warm White (WW)	3000 K	82	89 lm/W	4,375 lm
927927583061	MASTER TL5 HO 49W/830 SLV/20	-	-	Warm White (WW)	3000 K	82	89 lm/W	4,900 lm
927927584018	MASTER TL5 HO 49W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	89 lm/W	4,375 lm
927927584055	MASTER TL5 HO 49W/840 SLV/40	0.38	0.38	Cool White (CW)	4000 K	80	89 lm/W	4,375 lm
927927584061	MASTER TL5 HO 49W/840 SLV/20	-	-	Cool White (CW)	4000 K	82	89 lm/W	4,900 lm
927927586555	MASTER TL5 HO 49W/865 SLV/40	0.313	0.337	Cool Daylight	6500 K	82	83 lm/W	4,100 lm
927928083055	MASTER TL5 HO 24W/830 SLV/40	0.44	0.403	Warm White (WW)	3000 K	82	76 lm/W	1,700 lm
927928084018	MASTER TL5 HO 24W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	82	76 lm/W	1,700 lm
927928084055	MASTER TL5 HO 24W/840 SLV/40	0.38	0.38	Cool White (CW)	4000 K	82	76 lm/W	1,700 lm
927928084061	MASTER TL5 HO 24W/840 1SL/20	-	-	Cool White (CW)	4000 K	82	76 lm/W	1,950 lm
927928086555	MASTER TL5 HO 24W/865 SLV/40	0.313	0.337	Cool Daylight	6500 K	82	72 lm/W	1,575 lm
927928583055	MASTER TL5 HO 39W/830 SLV/40	0.44	0.403	Warm White (WW)	3000 K	82	82 lm/W	3,100 lm

MASTER TL5 High Output

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
927928584055	MASTER TL5 HO 39W/840 SLV/40	0.38	0.38	Cool White (CW)	4000 K	82	82 lm/W	3,100 lm
927928584061	MASTER TL5 HO 39W/840 SLV/20	-	-	Cool White (CW)	4000 K	82	82 lm/W	3,500 lm
927928586555	MASTER TL5 HO 39W/865 SLV/40	0.313	0.337	Cool Daylight	6500 K	82	76 lm/W	2,875 lm
927929083018	MASTER TL5 HO 54W/830 UNP/40	0.44	0.403	Warm White (WW)	3000 K	82	83 lm/W	4,500 lm
927929083055	MASTER TL5 HO 54W/830 SLV/40	0.44	0.403	Warm White (WW)	3000 K	82	83 lm/W	4,500 lm
927929083061	MASTER TL5 HO 54W/830 SLV/20	-	-	Warm White (WW)	3000 K	85	83 lm/W	5,000 lm
927929084018	MASTER TL5 HO 54W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	80	83 lm/W	4,500 lm
927929084055	MASTER TL5 HO 54W/840 SLV/40	0.38	0.38	Cool White (CW)	4000 K	80	83 lm/W	4,500 lm
927929084061	MASTER TL5 HO 54W/840 SLV/20	-	-	Cool White (CW)	4000 K	85	83 lm/W	5,000 lm
927929086555	MASTER TL5 HO 54W/865 SLV/40	0.313	0.337	Cool Daylight	6500 K	82	78 lm/W	4,200 lm
927929583057	MASTER TL5 HO 80W/830 SLV/40	0.44	0.403	Warm White (WW)	3000 K	81	82 lm/W	6,550 lm
927929584018	MASTER TL5 HO 80W/840 UNP/40	0.38	0.38	Cool White (CW)	4000 K	81	82 lm/W	6,550 lm
927929584057	MASTER TL5 HO 80W/840 SLV/40	0.38	0.38	Cool White (CW)	4000 K	81	82 lm/W	6,550 lm
927929584061	MASTER TL5 HO 80W/840 SLV/20	-	-	Cool White (CW)	4000 K	82	82 lm/W	7,000 lm
927929586557	MASTER TL5 HO 80W/865 SLV/40	0.313	0.337	Cool Daylight	6500 K	82	79 lm/W	6,300 lm

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
927927583018	MASTER TL5 HO 49W/830 UNP/40	0.255 A	49.3 W
927927583055	MASTER TL5 HO 49W/830 SLV/40	0.255 A	49.3 W
927927583061	MASTER TL5 HO 49W/830 SLV/20	0.255 A	49.2 W
927927584018	MASTER TL5 HO 49W/840 UNP/40	0.255 A	49.3 W
927927584055	MASTER TL5 HO 49W/840 SLV/40	0.255 A	49.3 W
927927584061	MASTER TL5 HO 49W/840 SLV/20	0.255 A	49.2 W
927927586555	MASTER TL5 HO 49W/865 SLV/40	0.255 A	49.3 W

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
927928083055	MASTER TL5 HO 24W/830 SLV/40	0.295 A	22.7 W
927928084018	MASTER TL5 HO 24W/840 UNP/40	0.295 A	22.7 W
927928084055	MASTER TL5 HO 24W/840 SLV/40	0.295 A	22.7 W
927928084061	MASTER TL5 HO 24W/840 1SL/20	0.295 A	22.5 W
927928086555	MASTER TL5 HO 24W/865 SLV/40	0.295 A	22.7 W
927928583055	MASTER TL5 HO 39W/830 SLV/40	0.325 A	38.0 W
927928584055	MASTER TL5 HO 39W/840 SLV/40	0.325 A	38.0 W

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Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
927928584061	MASTER TL5 HO 39W/840 SLV/20	0.325 A	38.0 W
927928586555	MASTER TL5 HO 39W/865 SLV/40	0.325 A	38.0 W
927929083018	MASTER TL5 HO 54W/830 UNP/40	0.455 A	54.4 W
927929083055	MASTER TL5 HO 54W/830 SLV/40	0.455 A	54.4 W
927929083061	MASTER TL5 HO 54W/830 SLV/20	0.455 A	54.1 W
927929084018	MASTER TL5 HO 54W/840 UNP/40	0.455 A	54.4 W
927929084055	MASTER TL5 HO 54W/840 SLV/40	0.455 A	54.4 W

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
927929084061	MASTER TL5 HO 54W/840 SLV/20	0.455 A	54.1 W
927929086555	MASTER TL5 HO 54W/865 SLV/40	0.455 A	54.4 W
927929583057	MASTER TL5 HO 80W/830 SLV/40	0.530 A	79.8 W
927929584018	MASTER TL5 HO 80W/840 UNP/40	0.530 A	79.8 W
927929584057	MASTER TL5 HO 80W/840 SLV/40	0.530 A	79.8 W
927929584061	MASTER TL5 HO 80W/840 SLV/20	0.530 A	79.8 W
927929586557	MASTER TL5 HO 80W/865 SLV/40	0.530 A	79.8 W

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927927583018	MASTER TL5 HO 49W/830 UNP/40	50 kWh
927927583055	MASTER TL5 HO 49W/830 SLV/40	50 kWh
927927583061	MASTER TL5 HO 49W/830 SLV/20	54 kWh
927927584018	MASTER TL5 HO 49W/840 UNP/40	50 kWh
927927584055	MASTER TL5 HO 49W/840 SLV/40	50 kWh
927927584061	MASTER TL5 HO 49W/840 SLV/20	54 kWh
927927586555	MASTER TL5 HO 49W/865 SLV/40	50 kWh
927928083055	MASTER TL5 HO 24W/830 SLV/40	23 kWh
927928084018	MASTER TL5 HO 24W/840 UNP/40	23 kWh
927928084055	MASTER TL5 HO 24W/840 SLV/40	23 kWh
927928084061	MASTER TL5 HO 24W/840 1SL/20	25 kWh
927928086555	MASTER TL5 HO 24W/865 SLV/40	23 kWh
927928583055	MASTER TL5 HO 39W/830 SLV/40	38 kWh
927928584055	MASTER TL5 HO 39W/840 SLV/40	38 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927928584061	MASTER TL5 HO 39W/840 SLV/20	42 kWh
927928586555	MASTER TL5 HO 39W/865 SLV/40	38 kWh
927929083018	MASTER TL5 HO 54W/830 UNP/40	55 kWh
927929083055	MASTER TL5 HO 54W/830 SLV/40	55 kWh
927929083061	MASTER TL5 HO 54W/830 SLV/20	59 kWh
927929084018	MASTER TL5 HO 54W/840 UNP/40	55 kWh
927929084055	MASTER TL5 HO 54W/840 SLV/40	55 kWh
927929084061	MASTER TL5 HO 54W/840 SLV/20	59 kWh
927929086555	MASTER TL5 HO 54W/865 SLV/40	55 kWh
927929583057	MASTER TL5 HO 80W/830 SLV/40	80 kWh
927929584018	MASTER TL5 HO 80W/840 UNP/40	80 kWh
927929584057	MASTER TL5 HO 80W/840 SLV/40	80 kWh
927929584061	MASTER TL5 HO 80W/840 SLV/20	88 kWh
927929586557	MASTER TL5 HO 80W/865 SLV/40	80 kWh

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