



Product Description

MASTER TL5 High Output

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

Benefits

- Allow 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 color rendering

Features

- 40% thinner than TL-D lamps
- Designed for high lumen 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 lumen output reached at approx. 35 °C in free-burning position if an HF electronic ballast without additional electrode heating is used
- Can be ignited from -15 ° to +50 °C
- Green end-plate indicates full recyclable lamp technology

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.

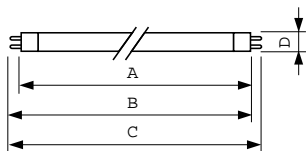
MASTER TL5 High Output

Versions



G5, T5

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 49W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 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 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 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 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 80W/865 SLV/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
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

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 %

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	Energy Efficiency Label (EEL)
63752955	MASTER TL5 HO 49W/830 UNP/40	54 kWh	A+
63954755	MASTER TL5 HO 49W/830 1SL/40	54 kWh	A+
63758155	MASTER TL5 HO 49W/840 UNP/40	54 kWh	A+
63956155	MASTER TL5 HO 49W/840 1SL/40	54 kWh	A+
64389655	MASTER TL5 HO 49W/865 1SL/40	54 kWh	A+
63958555	MASTER TL5 HO 24W/830 1SL/40	25 kWh	A
63960855	MASTER TL5 HO 24W/840 1SL/40	25 kWh	A
64393355	MASTER TL5 HO 24W/865 1SL/40	25 kWh	A
63962255	MASTER TL5 HO 39W/830 1SL/40	42 kWh	A+
63964655	MASTER TL5 HO 39W/840 1SL/40	42 kWh	A+
64387255	MASTER TL5 HO 39W/865 1SL/40	42 kWh	A
64316255	MASTER TL5 HO 54W/830 1SL/40	59 kWh	A+
64318655	MASTER TL5 HO 54W/840 1SL/40	59 kWh	A+
64391955	MASTER TL5 HO 54W/865 1SL/40	59 kWh	A
71040655	MASTER TL5 HO 80W/830 1SL/40	88 kWh	A
71045155	MASTER TL5 HO 80W/840 1SL/40	88 kWh	A
71047555	MASTER TL5 HO 80W/865 1SL/40	88 kWh	A

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
63752955	MASTER TL5 HO 49W/830 UNP/40	0.255 A	49.2 W
63954755	MASTER TL5 HO 49W/830 1SL/40	0.255 A	49.2 W
63758155	MASTER TL5 HO 49W/840 UNP/40	0.255 A	49.2 W
63956155	MASTER TL5 HO 49W/840 1SL/40	0.255 A	49.2 W
64389655	MASTER TL5 HO 49W/865 1SL/40	0.255 A	49.2 W
63958555	MASTER TL5 HO 24W/830 1SL/40	0.295 A	22.5 W
63960855	MASTER TL5 HO 24W/840 1SL/40	0.295 A	22.5 W
64393355	MASTER TL5 HO 24W/865 1SL/40	0.295 A	22.5 W
63962255	MASTER TL5 HO 39W/830 1SL/40	0.325 A	38.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
63964655	MASTER TL5 HO 39W/840 1SL/40	0.325 A	38.0 W
64387255	MASTER TL5 HO 39W/865 1SL/40	0.325 A	38.0 W
64316255	MASTER TL5 HO 54W/830 1SL/40	0.455 A	54.1 W
64318655	MASTER TL5 HO 54W/840 1SL/40	0.455 A	54.1 W
64391955	MASTER TL5 HO 54W/865 1SL/40	0.455 A	54.1 W
71040655	MASTER TL5 HO 80W/830 1SL/40	0.530 A	79.8 W
71045155	MASTER TL5 HO 80W/840 1SL/40	0.530 A	79.8 W
71047555	MASTER TL5 HO 80W/865 1SL/40	0.530 A	80 W

Light Technical (1/2)

MASTER TL5 High Output

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature	Color Rendering Index
				(Nom)	(Nom)
63752955	MASTER TL5 HO 49W/830 UNP/40	830	Warm White (WW)	3000 K	82
63954755	MASTER TL5 HO 49W/830 1SL/40	830	Warm White (WW)	3000 K	82
63758155	MASTER TL5 HO 49W/840 UNP/40	840	Cool White (CW)	4000 K	82
63956155	MASTER TL5 HO 49W/840 1SL/40	840	Cool White (CW)	4000 K	82
64389655	MASTER TL5 HO 49W/865 1SL/40	865	Cool Daylight	6500 K	82
63958555	MASTER TL5 HO 24W/830 1SL/40	830	Warm White (WW)	3000 K	82
63960855	MASTER TL5 HO 24W/840 1SL/40	840	Cool White (CW)	4000 K	82
64393355	MASTER TL5 HO 24W/865 1SL/40	865	Cool Daylight	6500 K	82

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature	Color Rendering Index
				(Nom)	(Nom)
63962255	MASTER TL5 HO 39W/830 1SL/40	830	Warm White (WW)	3000 K	82
63964655	MASTER TL5 HO 39W/840 1SL/40	840	Cool White (CW)	4000 K	82
64387255	MASTER TL5 HO 39W/865 1SL/40	865	Cool Daylight	6500 K	82
64316255	MASTER TL5 HO 54W/830 1SL/40	830	Warm White (WW)	3000 K	85
64318655	MASTER TL5 HO 54W/840 1SL/40	840	Cool White (CW)	4000 K	85
64391955	MASTER TL5 HO 54W/865 1SL/40	865	Cool Daylight	6500 K	85
71040655	MASTER TL5 HO 80W/830 1SL/40	830	Warm White (WW)	3000 K	82
71045155	MASTER TL5 HO 80W/840 1SL/40	840	Cool White (CW)	4000 K	82
71047555	MASTER TL5 HO 80W/865 1SL/40	865	Cool Daylight	6500 K	82

Light Technical (2/2)

Order Code	Full Product Name	LLMF 16000 h Rated	Luminous Efficacy (@ Max)		Luminous Flux (Nom)	Luminous Flux (Rated)
			Lumen, Rated (Nom)	Luminous Efficacy (rated) (Nom)		
63752955	MASTER TL5 HO 49W/830 UNP/40	91 %	99 lm/W	89 lm/W	4900 lm	4375 lm
63954755	MASTER TL5 HO 49W/830 1SL/40	91 %	99 lm/W	89 lm/W	4900 lm	4375 lm
63758155	MASTER TL5 HO 49W/840 UNP/40	90 %	99 lm/W	89 lm/W	4900 lm	4375 lm
63956155	MASTER TL5 HO 49W/840 1SL/40	90 %	99 lm/W	89 lm/W	4900 lm	4375 lm
64389655	MASTER TL5 HO 49W/865 1SL/40	91 %	92 lm/W	83 lm/W	4550 lm	4075 lm
63958555	MASTER TL5 HO 24W/830 1SL/40	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm
63960855	MASTER TL5 HO 24W/840 1SL/40	91 %	87 lm/W	76 lm/W	1950 lm	1700 lm

Order Code	Full Product Name	LLMF 16000 h Rated	Luminous Efficacy (@ Max)		Luminous Flux (Nom)	Luminous Flux (Rated)
			Lumen, Rated (Nom)	Luminous Efficacy (rated) (Nom)		
64393355	MASTER TL5 HO 24W/865 1SL/40	91 %	81 lm/W	72 lm/W	1825 lm	1575 lm
63962255	MASTER TL5 HO 39W/830 1SL/40	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
63964655	MASTER TL5 HO 39W/840 1SL/40	91 %	92 lm/W	82 lm/W	3500 lm	3100 lm
64387255	MASTER TL5 HO 39W/865 1SL/40	91 %	86 lm/W	76 lm/W	3250 lm	2875 lm
64316255	MASTER TL5 HO 54W/830 1SL/40	91 %	93 lm/W	83 lm/W	5000 lm	4500 lm
64318655	MASTER TL5 HO 54W/840 1SL/40	91 %	93 lm/W	83 lm/W	5000 lm	4500 lm
64391955	MASTER TL5 HO 54W/865 1SL/40	91 %	86 lm/W	78 lm/W	4650 lm	4200 lm

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Order Code	Full Product Name	LLMF 16000 h Rated	Luminous Efficacy (@ Max		Luminous Flux (Rated) (Nom)	Luminous Flux (Rated) (Nom)
			Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)		
71040655	MASTER TL5 HO 80W/830 1SL/40	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
71045155	MASTER TL5 HO	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm

Order Code	Full Product Name	LLMF 16000 h Rated	Luminous Efficacy (@ Max		Luminous Flux (Rated) (Nom)	Luminous Flux (Rated) (Nom)
			Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)		
	80W/840 1SL/40					
71047555	MASTER TL5 HO 80W/865 1SL/40	91 %	83 lm/W	79 lm/W	6300 lm	6300 lm

