



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

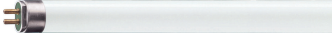
- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturization
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well-suited for dimming
- Maximum light output reached at approximately 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

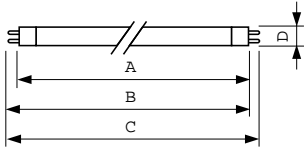
MASTER TL5 High Output

Versions



MASTER TL5 High Output

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
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/840 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 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/830 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 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 54W/830 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 39W/840 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 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 24W/865 SLV/40	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/830 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 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 49W/830 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 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/1000 h	Energy Efficiency Label (EEL)
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+
63740655	MASTER TL5 HO 54W/840 UNP/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
64438155	MASTER TL5 HO 80W/840 UNP/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)	Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
63954755	MASTER TL5 HO 49W/830 1SL/40	0.255 A	49.2 W	64387255	MASTER TL5 HO 39W/865 1SL/40	0.325 A	38.0 W
63758155	MASTER TL5 HO 49W/840 UNP/40	0.255 A	49.2 W	64316255	MASTER TL5 HO 54W/830 1SL/40	0.455 A	54.1 W
63956155	MASTER TL5 HO 49W/840 1SL/40	0.255 A	49.2 W	63740655	MASTER TL5 HO 54W/840 UNP/40	0.455 A	54.1 W
64389655	MASTER TL5 HO 49W/865 1SL/40	0.255 A	49.2 W	64318655	MASTER TL5 HO 54W/840 1SL/40	0.455 A	54.1 W
63958555	MASTER TL5 HO 24W/830 1SL/40	0.295 A	22.5 W	64391955	MASTER TL5 HO 54W/865 1SL/40	0.455 A	54.1 W
63960855	MASTER TL5 HO 24W/840 1SL/40	0.295 A	22.5 W	71040655	MASTER TL5 HO 80W/830 1SL/40	0.530 A	79.8 W
64393355	MASTER TL5 HO 24W/865 1SL/40	0.295 A	22.5 W	64438155	MASTER TL5 HO 80W/840 UNP/40	0.530 A	79.8 W
63962255	MASTER TL5 HO 39W/830 1SL/40	0.325 A	38.0 W	71045155	MASTER TL5 HO 80W/840 1SL/40	0.530 A	79.8 W
63964655	MASTER TL5 HO 39W/840 1SL/40	0.325 A	38.0 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	Colour Code	Colour Designation	Correlated Colour Temperature	Colour Rendering Index
				(Nom)	(Nom)
63954755	MASTER TL5 HO 49W/830 1SL/40	830	Warm White (WW)	3000 K	82
63758155	MASTER TL5 HO 49W/840 UNP/40	841	Cool White (CW)	4000 K	82
63956155	MASTER TL5 HO 49W/840 1SL/40	841	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	841	Cool White (CW)	4000 K	82
64393355	MASTER TL5 HO 24W/865 1SL/40	865	Cool Daylight	6500 K	82
63962255	MASTER TL5 HO 39W/830 1SL/40	830	Warm White (WW)	3000 K	82
63964655	MASTER TL5 HO 39W/840 1SL/40	841	Cool White (CW)	4000 K	82
64387255	MASTER TL5 HO 39W/865 1SL/40	865	Cool Daylight	6500 K	82

Order Code	Full Product Name	Colour Code	Colour Designation	Correlated Colour Temperature	Colour Rendering Index
				(Nom)	(Nom)
64316255	MASTER TL5 HO 54W/830 1SL/40	830	Warm White (WW)	3000 K	85
63740655	MASTER TL5 HO 54W/840 UNP/40	841	Cool White (CW)	4000 K	85
64318655	MASTER TL5 HO 54W/840 1SL/40	841	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
64438155	MASTER TL5 HO 80W/840 UNP/40	841	Cool White (CW)	4000 K	82
71045155	MASTER TL5 HO 80W/840 1SL/40	841	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)		
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
63740655	MASTER TL5 HO 54W/840 UNP/40	91 %	93 lm/W	83 lm/W	5000 lm	4500 lm

MASTER TL5 High Output

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)		
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
71040655	MASTER TL5 HO 80W/830 1SL/40	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
64438155	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 UNP/40					
71045155	MASTER TL5 HO 80W/840 1SL/40	91 %	88 lm/W	82 lm/W	7000 lm	6550 lm
71047555	MASTER TL5 HO 80W/865 1SL/40	91 %	83 lm/W	79 lm/W	6300 lm	6300 lm

