



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

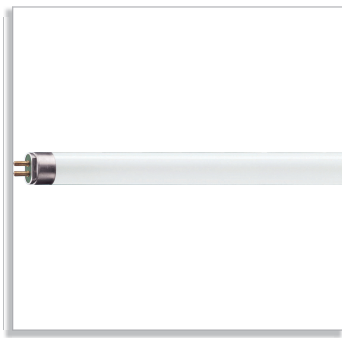
- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturisation
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C 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

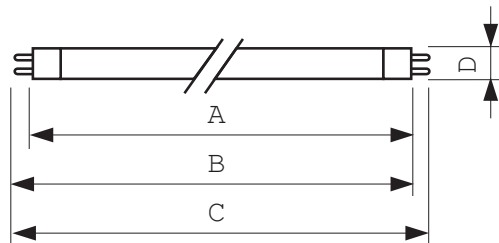


Related products



G5, T5

Dimensional drawing



G5, T5

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HO 49W/865	1449.0	1453.7	1456.1	1463.2	17
TL5 HO 24W/830	549.0	553.7	556.1	563.2	17
TL5 HO 24W/840	549.0	553.7	556.1	563.2	17
TL5 HO 39W/830	849.0	853.7	856.1	863.2	17
TL5 HO 39W/865	849.0	853.7	856.1	863.2	17
TL5 HO 54W/830	1149.0	1153.7	1156.1	1163.2	17
TL5 HO 54W/840	1149.0	1153.7	1156.1	1163.2	17
TL5 HO 54W/865	1149.0	1153.7	1156.1	1163.2	17

General Characteristics (1/2)

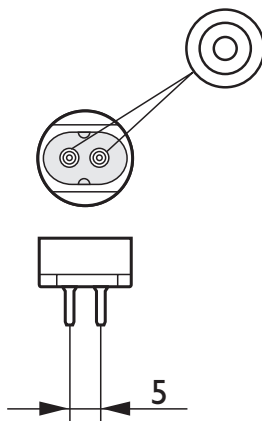
Order code	Full product name	Bulb	Cap-Base	System Description	Life to 50% fail Preheat EL,3h	Life to 10% fail Preheat EL,3h	LSF HF Preheat 20000h Rated,3h	LSF HF Preheat 12000h Rated,3h	LSF HF Preheat 8000h Rated,3h	LSF HF Preheat 6000h Rated,3h	LSF HF Preheat 4000h Rated,3h
927927586555	MASTER TL5 HO 49W/865 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98
927928083055	MASTER TL5 HO 24W/830 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98
927928084055	MASTER TL5 HO 24W/840 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98
927928583055	MASTER TL5 HO 39W/830 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98
927928586555	MASTER TL5 HO 39W/865 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98
927929083055	MASTER TL5 HO 54W/830 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98
927929084055	MASTER TL5 HO 54W/840 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98
927929086555	MASTER TL5 HO 54W/865 1SL	T5	G5	High Output	24000	19000	85	95	97	98	98

General Characteristics (2/2)

Order code	Full product name	LSF HF Preheat 2000h Rated, 3h	LSF HF Preheat 16000h Rated, 3h
927927586555	MASTER TL5 HO 49W/865 1SL	99	94
927928083055	MASTER TL5 HO 24W/830 1SL	99	94
927928084055	MASTER TL5 HO 24W/840 1SL	99	94
927928583055	MASTER TL5 HO 39W/830 1SL	99	94
927928586555	MASTER TL5 HO 39W/865 1SL	99	94

Order code	Full product name	LSF HF Preheat 2000h Rated, 3h	LSF HF Preheat 16000h Rated, 3h
927929083055	MASTER TL5 HO 54W/830 1SL	99	94
927929084055	MASTER TL5 HO 54W/840 1SL	99	94
927929086555	MASTER TL5 HO 54W/865 1SL	99	94

Installation diagrams



G5

Light Technical Characteristics (1/2)

Order code	Full product name	Colour Code	Colour Designation	Chromaticity Coordinate X	Chromaticity Coordinate Y	Colour Rendering Index	Colour Temperature	Luminous Flux Lamp EL 35°C	Lum Efficacy Rated HF 25°C	Lum Efficacy Rated HF 35°C	LLMF HF 20000h Rated
927927586555	MASTER TL5 HO 49W/865 1SL	865	Cool Daylight	313	338	85	6500	4650	83	94	88
927928083055	MASTER TL5 HO 24W/830 1SL	830	Warm white	444	409	85	3000	1950	78	87	88
927928084055	MASTER TL5 HO 24W/840 1SL	840	Cool White	381	379	85	4000	1950	78	87	88
927928583055	MASTER TL5 HO 39W/830 1SL	830	Warm white	444	409	85	3000	3500	82	92	88
927928586555	MASTER TL5 HO 39W/865 1SL	865	Cool Daylight	313	338	85	6500	3300	76	87	88

Order code	Full product name	Colour Code	Colour Designation	Chromaticity Coordinate X	Chromaticity Coordinate Y	Colour Rendering Index	Colour Temperature	Luminous Flux Lamp EL 35°C	Lum Efficacy Rated HF 25°C	Lum Efficacy Rated HF 35°C	LLMF HF 20000h Rated
927929083055	MASTER TL5 HO 54W/830 1SL	830	Warm white	444	409	85	3000	5000	82	93	88
927929084055	MASTER TL5 HO 54W/840 1SL	840	Cool White	381	379	85	4000	5000	82	93	88
927929086555	MASTER TL5 HO 54W/865 1SL	865	Cool Daylight	313	338	85	6500	4750	79	88	88

Light Technical Characteristics (2/2)

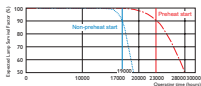
Order code	Full product name	LLMF HF 16000h Rated	LLMF HF 12000h Rated	LLMF HF 8000h Rated	LLMF HF 6000h Rated	LLMF HF 4000h Rated	LLMF HF 2000h Rated	Luminous Flux EL 25°C, Rated	Luminous Flux EL 25°C, Nominal	Design Temperature
927927586555	MASTER TL5 HO 49W/865 1SL	90	91	93	94	95	96	4100	4100	35
927928083055	MASTER TL5 HO 24W/830 1SL	90	91	93	94	95	96	1750	1750	35
927928084055	MASTER TL5 HO 24W/840 1SL	90	91	93	94	95	96	1750	1750	35
927928583055	MASTER TL5 HO 39W/830 1SL	90	91	93	94	95	96	3100	3100	35
927928586555	MASTER TL5 HO 39W/865 1SL	90	91	93	94	95	96	2900	2900	35
927929083055	MASTER TL5 HO 54W/830 1SL	90	91	93	94	95	96	4450	4450	35
927929084055	MASTER TL5 HO 54W/840 1SL	90	91	93	94	95	96	4450	4450	35
927929086555	MASTER TL5 HO 54W/865 1SL	90	91	93	94	95	96	4250	4250	35

Electrical Characteristics

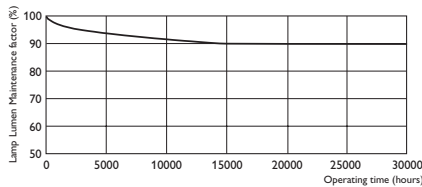
Order code	Full product name	Lamp Wattage	Dimmable	Lamp Current EL 35°C	Lamp Voltage EL 35°C	Lamp Current EL 25°C	Lamp Voltage EL 25°C	Lamp Wattage EL 35°C	Lamp Wattage EL 25°C, Rated	Lamp Wattage EL 25°C, Nominal
927927586555	MASTER TL5 HO 49W/865 1SL	49	yes	0.260	191	0.255	195	49.3	49.2	49
927928083055	MASTER TL5 HO 24W/830 1SL	24	yes	0.300	75	0.295	77	22.5	22.5	24
927928084055	MASTER TL5 HO 24W/840 1SL	24	yes	0.300	75	0.295	77	22.5	22.5	24
927928583055	MASTER TL5 HO 39W/830 1SL	39	yes	0.340	112	0.325	118	39.0	38.0	39
927928586555	MASTER TL5 HO 39W/865 1SL	39	yes	0.340	112	0.325	118	39.0	38.0	39
927929083055	MASTER TL5 HO 54W/830 1SL	54	yes	0.460	118	0.455	120	54.0	54.1	54

Order code	Full product name	Lamp Wattage	Dimmable	Lamp Current EL 35°C	Lamp Voltage EL 35°C	Lamp Current EL 25°C	Lamp Voltage EL 25°C	Lamp Wattage EL 35°C	Lamp Wattage EL 25°C, Rated	Lamp Wattage EL 25°C, Nominal
927929084055	MASTER TL5 HO 54W/840 1SL	54	yes	0.460	118	0.455	120	54.0	54.1	54
927929086555	MASTER TL5 HO 54W/865 1SL	54	yes	0.460	118	0.455	120	54.0	54.1	54

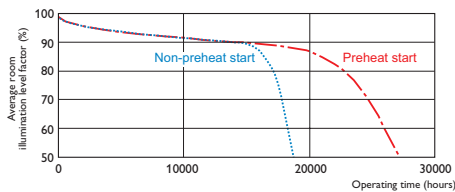
Performance diagrams



Life Expectancy 3h cycle



TL5 High Output



Service Life 3h cycle

Environmental Characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content
927927586555	MASTER TL5 HO 49W/865 1SL	A	1.4
927928083055	MASTER TL5 HO 24W/830 1SL	A	1.4
927928084055	MASTER TL5 HO 24W/840 1SL	A	1.4
927928583055	MASTER TL5 HO 39W/830 1SL	A	1.4
927928586555	MASTER TL5 HO 39W/865 1SL	A	1.4
927929083055	MASTER TL5 HO 54W/830 1SL	A	1.4
927929084055	MASTER TL5 HO 54W/840 1SL	A	1.4
927929086555	MASTER TL5 HO 54W/865 1SL	A	1.4

Order code	Full product name	Calibration Current	HF Generator Rated Voltage	Resistor
927928084055	MASTER TL5 HO 24W/840 1SL	0.300	150	250
927928583055	MASTER TL5 HO 39W/830 1SL	0.340	224	330
927928586555	MASTER TL5 HO 39W/865 1SL	0.340	224	330
927929083055	MASTER TL5 HO 54W/830 1SL	0.460	235	255
927929084055	MASTER TL5 HO 54W/840 1SL	0.460	235	255
927929086555	MASTER TL5 HO 54W/865 1SL	0.460	235	255

Measuring Conditions

Order code	Full product name	Calibration Current	HF Generator Rated Voltage	Resistor
927927586555	MASTER TL5 HO 49W/865 1SL	0.255	390	765
927928083055	MASTER TL5 HO 24W/830 1SL	0.300	150	250