



High efficient fluorescent lighting

MASTER TL5 High Efficiency

This TL5 lamp (tube diameter 16 mm) has a high luminous efficacy, resulting in low energy consumption. The High Efficiency TL5 lamp offers excellent lumen maintenance and good color rendering. Application areas are offices, industry, public and governmental buildings, schools, hospitals and indoor sports lighting.

Benefits

- Allows system miniaturization and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- High lamp efficacies and luminaire efficiencies

Features

- 40% thinner and 5 cm shorter than corresponding TL-D lamps
- High lamp efficacies up to 104 lm/W
- Specifically designed for operation with electronic gear
- Maximum light output reached at approximately 35 °C in free-burning position

Application

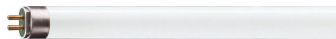
- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry (low ceiling), wherever high-quality, energy-effective lighting is required

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 Efficiency

Versions



G5, T5

MASTER TL5 High Efficiency

Dimensional drawing

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Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HE 14W/827 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/830 UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/830 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/830 1SL/20	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/835 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/840 UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/840 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/840 1SL/20	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 14W/865 SLV/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
MASTER TL5 HE 21W/827 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/830 UNP/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/830 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/830 SLV/20	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/840 UNP/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/840 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/840 SLV/20	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 21W/865 SLV/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
MASTER TL5 HE 28W/827 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 28W/830 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 28W/830 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 28W/830 1SL/20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 28W/835 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 28W/840 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 28W/840 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 28W/840 1SL/20	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

MASTER TL5 High Efficiency

Dimensional drawing

Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HE 28W/865 SLV/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HE 35W/827 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HE 35W/830 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HE 35W/830 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HE 35W/830 SLV/20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HE 35W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HE 35W/840 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HE 35W/840 SLV/20	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HE 35W/865 SLV/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm

MASTER TL5 High Efficiency

Approval and Application

Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	1.4 mg

Controls and Dimming

Dimmable	Yes
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General Information

Cap-Base	G5
Life To 50% Failures Preheat (Nom)	24000 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 Efficiency

Light Technical

Color Rendering Index (Max)	85
Color Rendering Index (Min)	80
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
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
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Temperature

Design Temperature (Nom)	35 °C
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926082755	MASTER TL5 HE 14W/827 SLV/40	15 kWh
927926083018	MASTER TL5 HE 14W/830 UNP/40	15 kWh
927926083055	MASTER TL5 HE 14W/830 SLV/40	15 kWh
927926083061	MASTER TL5 HE 14W/830 1SL/20	15 kWh
927926083555	MASTER TL5 HE 14W/835 SLV/40	15 kWh
927926084018	MASTER TL5 HE 14W/840 UNP/40	15 kWh
927926084055	MASTER TL5 HE 14W/840 SLV/40	15 kWh
927926084061	MASTER TL5 HE 14W/840 1SL/20	15 kWh
927926086555	MASTER TL5 HE 14W/865 SLV/40	15 kWh
927926282755	MASTER TL5 HE 21W/827 SLV/40	23 kWh
927926283018	MASTER TL5 HE 21W/830 UNP/40	23 kWh
927926283055	MASTER TL5 HE 21W/830 SLV/40	23 kWh
927926283061	MASTER TL5 HE 21W/830 SLV/20	23 kWh
927926284018	MASTER TL5 HE 21W/840 UNP/40	23 kWh
927926284055	MASTER TL5 HE 21W/840 SLV/40	23 kWh
927926284061	MASTER TL5 HE 21W/840 SLV/20	23 kWh
927926286555	MASTER TL5 HE 21W/865 SLV/40	23 kWh
927926582755	MASTER TL5 HE 28W/827 SLV/40	31 kWh
927926583018	MASTER TL5 HE 28W/830 UNP/40	31 kWh
927926583055	MASTER TL5 HE 28W/830 SLV/40	31 kWh
927926583061	MASTER TL5 HE 28W/830 1SL/20	31 kWh
927926583555	MASTER TL5 HE 28W/835 SLV/40	31 kWh
927926584018	MASTER TL5 HE 28W/840 UNP/40	31 kWh
927926584055	MASTER TL5 HE 28W/840 SLV/40	31 kWh
927926584061	MASTER TL5 HE 28W/840 1SL/20	31 kWh
927926586555	MASTER TL5 HE 28W/865 SLV/40	31 kWh
927927082755	MASTER TL5 HE 35W/827 SLV/40	38 kWh
927927083018	MASTER TL5 HE 35W/830 UNP/40	38 kWh
927927083055	MASTER TL5 HE 35W/830 SLV/40	38 kWh
927927083061	MASTER TL5 HE 35W/830 SLV/20	38 kWh
927927084018	MASTER TL5 HE 35W/840 UNP/40	38 kWh
927927084055	MASTER TL5 HE 35W/840 SLV/40	38 kWh
927927084061	MASTER TL5 HE 35W/840 SLV/20	38 kWh
927927086555	MASTER TL5 HE 35W/865 SLV/40	38 kWh

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)
927926082755	MASTER TL5 HE 14W/827 SLV/40	0.165 A	14 W	927926283055	MASTER TL5 HE 21W/830 SLV/40	0.165 A	20.6 W
927926083018	MASTER TL5 HE 14W/830 UNP/40	0.165 A	14 W	927926283061	MASTER TL5 HE 21W/830 SLV/20	0.165 A	20.6 W
927926083055	MASTER TL5 HE 14W/830 SLV/40	0.165 A	14 W	927926284018	MASTER TL5 HE 21W/840 UNP/40	0.165 A	20.6 W
927926083061	MASTER TL5 HE 14W/830 1SL/20	0.165 A	14 W	927926284055	MASTER TL5 HE 21W/840 SLV/40	0.165 A	20.6 W
927926083555	MASTER TL5 HE 14W/835 SLV/40	0.165 A	14 W	927926284061	MASTER TL5 HE 21W/840 SLV/20	0.165 A	20.6 W
927926084018	MASTER TL5 HE 14W/840 UNP/40	0.165 A	14 W	927926286555	MASTER TL5 HE 21W/865 SLV/40	0.165 A	20.6 W
927926084055	MASTER TL5 HE 14W/840 SLV/40	0.165 A	14 W	927926582755	MASTER TL5 HE 28W/827 SLV/40	0.170 A	27.9 W
927926084061	MASTER TL5 HE 14W/840 1SL/20	0.165 A	14 W	927926583018	MASTER TL5 HE 28W/830 UNP/40	0.170 A	27.9 W
927926086555	MASTER TL5 HE 14W/865 SLV/40	0.165 A	14 W	927926583055	MASTER TL5 HE 28W/830 SLV/40	0.170 A	27.9 W
927926282755	MASTER TL5 HE 21W/827 SLV/40	0.165 A	20.6 W	927926583061	MASTER TL5 HE 28W/830 1SL/20	0.170 A	27.9 W
927926283018	MASTER TL5 HE 21W/830 UNP/40	0.165 A	20.6 W	927926583555	MASTER TL5 HE 28W/835 SLV/40	0.170 A	27.9 W

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Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927926584018	MASTER TL5 HE 28W/840 UNP/40	0.170 A	27.9 W
927926584055	MASTER TL5 HE 28W/840 SLV/40	0.170 A	27.9 W
927926584061	MASTER TL5 HE 28W/840 1SL/20	0.170 A	27.9 W
927926586555	MASTER TL5 HE 28W/865 SLV/40	0.170 A	27.9 W
927927082755	MASTER TL5 HE 35W/827 SLV/40	0.175 A	35.5 W
927927083018	MASTER TL5 HE 35W/830 UNP/40	0.175 A	35.5 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927927083055	MASTER TL5 HE 35W/830 SLV/40	0.175 A	35.5 W
927927083061	MASTER TL5 HE 35W/830 SLV/20	0.175 A	35.5 W
927927084018	MASTER TL5 HE 35W/840 UNP/40	0.175 A	35.5 W
927927084055	MASTER TL5 HE 35W/840 SLV/40	0.175 A	35.5 W
927927084061	MASTER TL5 HE 35W/840 SLV/20	0.175 A	35.5 W
927927086555	MASTER TL5 HE 35W/865 SLV/40	0.175 A	35.5 W

Light Technical (1/2)

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)
927926082755	MASTER TL5 HE 14W/827 SLV/40	827	Incandescent White	2700 K	82
927926083018	MASTER TL5 HE 14W/830 UNP/40	830	Warm White (WW)	3000 K	>80
927926083055	MASTER TL5 HE 14W/830 SLV/40	830	Warm White (WW)	3000 K	>80
927926083061	MASTER TL5 HE 14W/830 1SL/20	830	Warm White (WW)	3000 K	>80
927926083555	MASTER TL5 HE 14W/835 SLV/40	835	White (WH)	3500 K	82
927926084018	MASTER TL5 HE 14W/840 UNP/40	840	Cool White (CW)	4000 K	82
927926084055	MASTER TL5 HE 14W/840 SLV/40	840	Cool White (CW)	4000 K	82
927926084061	MASTER TL5 HE 14W/840 1SL/20	840	Cool White (CW)	4000 K	82
927926086555	MASTER TL5 HE 14W/865 SLV/40	865	Cool Daylight	6500 K	82
927926282755	MASTER TL5 HE 21W/827 SLV/40	827	Incandescent White	2700 K	82
927926283018	MASTER TL5 HE 21W/830 UNP/40	830	Warm White (WW)	3000 K	>80
927926283055	MASTER TL5 HE 21W/830 SLV/40	830	Warm White (WW)	3000 K	>80

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)
927926283061	MASTER TL5 HE 21W/830 SLV/20	830	Warm White (WW)	3000 K	>80
927926284018	MASTER TL5 HE 21W/840 UNP/40	840	Cool White (CW)	4000 K	82
927926284055	MASTER TL5 HE 21W/840 SLV/40	840	Cool White (CW)	4000 K	82
927926284061	MASTER TL5 HE 21W/840 SLV/20	840	Cool White (CW)	4000 K	82
927926286555	MASTER TL5 HE 21W/865 SLV/40	865	Cool Daylight	6500 K	82
927926582755	MASTER TL5 HE 28W/827 SLV/40	827	Incandescent White	2700 K	82
927926583018	MASTER TL5 HE 28W/830 UNP/40	830	Warm White (WW)	3000 K	>80
927926583055	MASTER TL5 HE 28W/830 SLV/40	830	Warm White (WW)	3000 K	>80
927926583061	MASTER TL5 HE 28W/830 1SL/20	830	Warm White (WW)	3000 K	>80
927926583555	MASTER TL5 HE 28W/835 SLV/40	835	White (WH)	3500 K	82
927926584018	MASTER TL5 HE 28W/840 UNP/40	840	Cool White (CW)	4000 K	82
927926584055	MASTER TL5 HE 28W/840 SLV/40	840	Cool White (CW)	4000 K	82

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Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)
927926584061	MASTER TL5 HE 28W/840 1SL/20	840	Cool White (CW)	4000 K	82
927926586555	MASTER TL5 HE 28W/865 SLV/40	865	Cool Daylight	6500 K	82
927927082755	MASTER TL5 HE 35W/827 SLV/40	827	Incandescent White	2700 K	82
927927083018	MASTER TL5 HE 35W/830 UNP/40	830	Warm White (WW)	3000 K	82
927927083055	MASTER TL5 HE 35W/830 SLV/40	830	Warm White (WW)	3000 K	82

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)
927927083061	MASTER TL5 HE 35W/830 SLV/20	830	Warm White (WW)	3000 K	82
927927084018	MASTER TL5 HE 35W/840 UNP/40	840	Cool White (CW)	4000 K	82
927927084055	MASTER TL5 HE 35W/840 SLV/40	840	Cool White (CW)	4000 K	82
927927084061	MASTER TL5 HE 35W/840 SLV/20	840	Cool White (CW)	4000 K	82
927927086555	MASTER TL5 HE 35W/865 SLV/40	865	Cool Daylight	6500 K	82

Light Technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927926082755	MASTER TL5 HE 14W/827 SLV/40	96 lm/W	86 lm/W	1350 lm	1200 lm
927926083018	MASTER TL5 HE 14W/830 UNP/40	96 lm/W	86 lm/W	1350 lm	1200 lm
927926083055	MASTER TL5 HE 14W/830 SLV/40	96 lm/W	86 lm/W	1350 lm	1200 lm
927926083061	MASTER TL5 HE 14W/830 1SL/20	96 lm/W	86 lm/W	1350 lm	1200 lm
927926083555	MASTER TL5 HE 14W/835 SLV/40	96 lm/W	86 lm/W	1350 lm	1200 lm
927926084018	MASTER TL5 HE 14W/840 UNP/40	96 lm/W	86 lm/W	1350 lm	1200 lm
927926084055	MASTER TL5 HE 14W/840 SLV/40	96 lm/W	86 lm/W	1350 lm	1200 lm
927926084061	MASTER TL5 HE 14W/840 1SL/20	96 lm/W	86 lm/W	1350 lm	1200 lm

Order Code	Full Product Name	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927926086555	MASTER TL5 HE 14W/865 SLV/40	89 lm/W	80 lm/W	1250 lm	1125 lm
927926282755	MASTER TL5 HE 21W/827 SLV/40	101 lm/W	90 lm/W	2100 lm	1850 lm
927926283018	MASTER TL5 HE 21W/830 UNP/40	101 lm/W	90 lm/W	2100 lm	1850 lm
927926283055	MASTER TL5 HE 21W/830 SLV/40	101 lm/W	90 lm/W	2100 lm	1850 lm
927926283061	MASTER TL5 HE 21W/830 SLV/20	101 lm/W	90 lm/W	2100 lm	1850 lm
927926284018	MASTER TL5 HE 21W/840 UNP/40	101 lm/W	90 lm/W	2100 lm	1850 lm
927926284055	MASTER TL5 HE 21W/840 SLV/40	101 lm/W	90 lm/W	2100 lm	1850 lm
927926284061	MASTER TL5 HE 21W/840 SLV/20	101 lm/W	90 lm/W	2100 lm	1850 lm

MASTER TL5 High Efficiency

Order Code	Full Product Name	Luminous Efficacy (@ Max Lumen, Rated)		Luminous Flux (Nom)	
		(Nom)	(Nom)	(Nom)	(Nom)
927926286555	MASTER TL5 HE 21W/865 SLV/40	94 lm/W	84 lm/W	1950 lm	1725 lm
927926582755	MASTER TL5 HE 28W/827 SLV/40	104 lm/W	96 lm/W	2900 lm	2675 lm
927926583018	MASTER TL5 HE 28W/830 UNP/40	104 lm/W	96 lm/W	2900 lm	2675 lm
927926583055	MASTER TL5 HE 28W/830 SLV/40	104 lm/W	96 lm/W	2900 lm	2675 lm
927926583061	MASTER TL5 HE 28W/830 1SL/20	104 lm/W	96 lm/W	2900 lm	2675 lm
927926583555	MASTER TL5 HE 28W/835 SLV/40	104 lm/W	96 lm/W	2900 lm	2675 lm
927926584018	MASTER TL5 HE 28W/840 UNP/40	104 lm/W	96 lm/W	2900 lm	2675 lm
927926584055	MASTER TL5 HE 28W/840 SLV/40	104 lm/W	96 lm/W	2900 lm	2675 lm
927926584061	MASTER TL5 HE 28W/840 1SL/20	104 lm/W	96 lm/W	2900 lm	2675 lm

Order Code	Full Product Name	Luminous Efficacy (@ Max Lumen, Rated)		Luminous Flux (Nom)	
		(Nom)	(Nom)	(Nom)	(Nom)
927926586555	MASTER TL5 HE 28W/865 SLV/40	96 lm/W	90 lm/W	2700 lm	2500 lm
927927082755	MASTER TL5 HE 35W/827 SLV/40	104 lm/W	94 lm/W	3650 lm	3325 lm
927927083018	MASTER TL5 HE 35W/830 UNP/40	104 lm/W	94 lm/W	3650 lm	3325 lm
927927083055	MASTER TL5 HE 35W/830 SLV/40	104 lm/W	94 lm/W	3650 lm	3325 lm
927927083061	MASTER TL5 HE 35W/830 SLV/20	104 lm/W	94 lm/W	3650 lm	3325 lm
927927084018	MASTER TL5 HE 35W/840 UNP/40	104 lm/W	94 lm/W	3650 lm	3325 lm
927927084055	MASTER TL5 HE 35W/840 SLV/40	104 lm/W	94 lm/W	3650 lm	3325 lm
927927084061	MASTER TL5 HE 35W/840 SLV/20	104 lm/W	94 lm/W	3650 lm	3325 lm
927927086555	MASTER TL5 HE 35W/865 SLV/40	97 lm/W	87 lm/W	3400 lm	3100 lm

