



Product Description

MASTER TL5 High Efficiency

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
- Offers higher efficiencies and energy savings compared with TL-D lamps
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

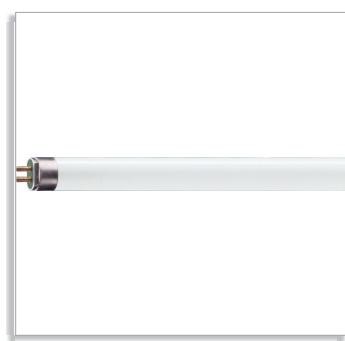
Features

- 40% thinner than TL-D lamps
- High lamp efficacies up to 104 lm/W
- 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

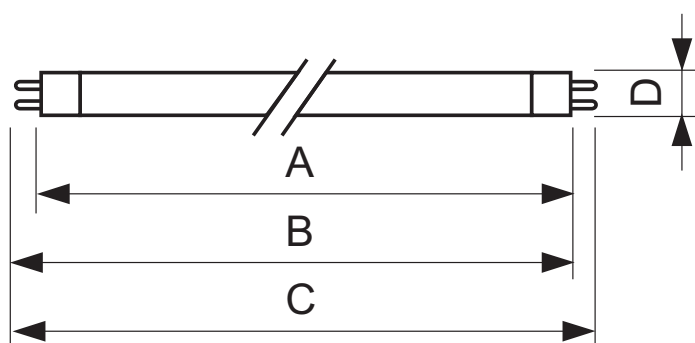
- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry, wherever high-quality, energy-effective lighting is required

Related products



G5, T5

Dimensional drawing



MASTER TL5 HE 14W/827 1SL

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 14W/827/GP HE	549.0	553.7	556.1	563.2	17
TL5 14W/830/GP HE	549.0	553.7	556.1	563.2	17
TL5 14W/830/GP HE	549.0	553.7	556.1	563.2	17
TL5 14W/835/GP HE	549.0	553.7	556.1	563.2	17
TL5 14W/840/GP HE	549.0	553.7	556.1	563.2	17
TL5 14W/840/GP HE	549.0	553.7	556.1	563.2	17
TL5 14W/865/GP HE	549.0	553.7	556.1	563.2	17
TL5 14W/865/GP HE	549.0	553.7	556.1	563.2	17
TL5 21W/827/GP HE	849.0	853.7	856.1	863.2	17
TL5 21W/830/GP HE	849.0	853.7	856.1	863.2	17
TL5 21W/830/GP HE	849.0	853.7	856.1	863.2	17
TL5 21W/835/GP HE	849.0	853.7	856.1	863.2	17
TL5 21W/840/GP HE	849.0	853.7	856.1	863.2	17
TL5 21W/840/GP HE	849.0	853.7	856.1	863.2	17
TL5 21W/865/GP HE	849.0	853.7	856.1	863.2	17
TL5 21W/865/GP HE	849.0	853.7	856.1	863.2	17
TL5 28W/827/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 28W/830/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 28W/830/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 28W/835/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 28W/840/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 28W/840/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 28W/865/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 28W/865/GP HE	1149.0	1153.7	1156.1	1163.2	17
TL5 35W/827/GP HE	1449.0	1453.7	1456.1	1463.2	17
TL5 HE 35W/830/GP	1449.0	1453.7	1456.1	1463.2	17
TL5 HE 35W/830/GP	1449.0	1453.7	1456.1	1463.2	17
TL5 HE 35W/835/GP	1449.0	1453.7	1456.1	1463.2	17
TL5 HE 35W/840/GP	1449.0	1453.7	1456.1	1463.2	17
TL5 HE 35W/840/GP	1449.0	1453.7	1456.1	1463.2	17
TL5 35W/865/GP HE	1449.0	1453.7	1456.1	1463.2	17
TL5 35W/865/GP HE	1449.0	1453.7	1456.1	1463.2	17

General Characteristics (1/2)

Order code	Full product name	System Description	Cap-Base	Bulb	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	LSF HF Preheat 2000h Rated,3h	LSF HF Preheat 4000h Rated,3h	LSF HF Preheat 6000h Rated,3h	LSF HF Preheat 8000h Rated,3h	LSF HF Preheat 12000h Rated,3h
641021 55	MASTER TL5 HE 14W/827 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610638 55	MASTER TL5 HE 14W/830 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639387 55	MASTER TL5 HE 14W/830 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
707659 55	MASTER TL5 HE 14W/835 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610669 55	MASTER TL5 HE 14W/840 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639400 55	MASTER TL5 HE 14W/840 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610683 55	MASTER TL5 HE 14W/865 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
710093 55	MASTER TL5 HE 14W/865 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
643209 55	MASTER TL5 HE 21W/827 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610706 55	MASTER TL5 HE 21W/830 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639424 55	MASTER TL5 HE 21W/830 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
115014 00	MASTER TL5 HE 21W/835 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610720 55	MASTER TL5 HE 21W/840 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639448 55	MASTER TL5 HE 21W/840 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610775 55	MASTER TL5 HE 21W/865 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
710116 55	MASTER TL5 HE 21W/865 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
643223 55	MASTER TL5 HE 28W/827 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610812 55	MASTER TL5 HE 28W/830 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639462 55	MASTER TL5 HE 28W/830 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
710048 55	MASTER TL5 HE 28W/835 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610904 55	MASTER TL5 HE 28W/840 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639486 55	MASTER TL5 HE 28W/840 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
610928 55	MASTER TL5 HE 28W/865 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
710154 55	MASTER TL5 HE 28W/865 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
643247 55	MASTER TL5 HE 35W/827 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
611031 55	MASTER TL5 HE 35W/830 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639509 55	MASTER TL5 HE 35W/830 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
710062 55	MASTER TL5 HE 35W/835 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %

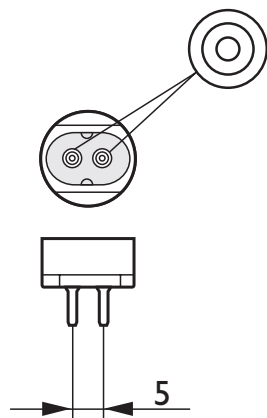
Order code	Full product name	System Description	Cap-Base	Bulb	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	LSF HF Preheat 2000h Rated,3h	LSF HF Preheat 4000h Rated,3h	LSF HF Preheat 6000h Rated,3h	LSF HF Preheat 8000h Rated,3h	LSF HF Preheat 12000h Rated,3h
611055 55	MASTER TL5 HE 35W/840 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
639523 55	MASTER TL5 HE 35W/840 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
611079 55	MASTER TL5 HE 35W/865 UNP	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %
710185 55	MASTER TL5 HE 35W/865 1SL	High Efficiency	G5	T5	19000 hr	24000 hr	99 %	99 %	99 %	99 %	99 %

General Characteristics (2/2)

Order code	Full product name	LSF HF Preheat 16000h Rated, 3h	LSF HF Preheat 20000h Rated, 3h
641021 55	MASTER TL5 HE 14W/827 1SL	97 %	84 %
610638 55	MASTER TL5 HE 14W/830 UNP	97 %	84 %
639387 55	MASTER TL5 HE 14W/830 1SL	97 %	84 %
707659 55	MASTER TL5 HE 14W/835 1SL	97 %	84 %
610669 55	MASTER TL5 HE 14W/840 UNP	97 %	84 %
639400 55	MASTER TL5 HE 14W/840 1SL	97 %	84 %
610683 55	MASTER TL5 HE 14W/865 UNP	97 %	84 %
710093 55	MASTER TL5 HE 14W/865 1SL	97 %	84 %
643209 55	MASTER TL5 HE 21W/827 1SL	97 %	84 %
610706 55	MASTER TL5 HE 21W/830 UNP	97 %	84 %
639424 55	MASTER TL5 HE 21W/830 1SL	97 %	84 %
115014 00	MASTER TL5 HE 21W/835 1SL	97 %	84 %
610720 55	MASTER TL5 HE 21W/840 UNP	97 %	84 %
639448 55	MASTER TL5 HE 21W/840 1SL	97 %	84 %
610775 55	MASTER TL5 HE 21W/865 UNP	97 %	84 %
710116 55	MASTER TL5 HE 21W/865 1SL	97 %	84 %
643223 55	MASTER TL5 HE 28W/827 1SL	97 %	84 %

Order code	Full product name	LSF HF Preheat 16000h Rated, 3h	LSF HF Preheat 20000h Rated, 3h
610812 55	MASTER TL5 HE 28W/830 UNP	97 %	84 %
639462 55	MASTER TL5 HE 28W/830 1SL	97 %	84 %
710048 55	MASTER TL5 HE 28W/835 1SL	97 %	84 %
610904 55	MASTER TL5 HE 28W/840 UNP	97 %	84 %
639486 55	MASTER TL5 HE 28W/840 1SL	97 %	84 %
610928 55	MASTER TL5 HE 28W/865 UNP	97 %	84 %
710154 55	MASTER TL5 HE 28W/865 1SL	97 %	84 %
643247 55	MASTER TL5 HE 35W/827 1SL	97 %	84 %
611031 55	MASTER TL5 HE 35W/830 UNP	97 %	84 %
639509 55	MASTER TL5 HE 35W/830 1SL	97 %	84 %
710062 55	MASTER TL5 HE 35W/835 1SL	97 %	84 %
611055 55	MASTER TL5 HE 35W/840 UNP	97 %	84 %
639523 55	MASTER TL5 HE 35W/840 1SL	97 %	84 %
611079 55	MASTER TL5 HE 35W/865 UNP	97 %	84 %
710185 55	MASTER TL5 HE 35W/865 1SL	97 %	84 %

Installation diagrams



G5

Light Technical Characteristics (1/2)

Order code	Full product name	Colour Code	Colour Rendering Index	Colour Designation	Colour Temperature	Luminous Flux EL 25°C, Rated	Luminous Flux EL 25°C, Nominal	Luminous Flux Lamp EL 35°C	Lum Efficacy Rated HF 25°C	Lum Efficacy Rated HF 35°C	LLMF HF 2000h Rated
641021 55	MASTER TL5 HE 14W/827 1SL	827	85 Ra8	Incandescent White	2700 K	1250 Lm	1250 Lm	1350 Lm	89 Lm/W	99 Lm/W	96 %
610638 55	MASTER TL5 HE 14W/830 UNP	830	85 Ra8	Warm white	3000 K	1250 Lm	1250 Lm	1350 Lm	89 Lm/W	99 Lm/W	96 %
639387 55	MASTER TL5 HE 14W/830 1SL	830	85 Ra8	Warm white	3000 K	1250 Lm	1250 Lm	1350 Lm	89 Lm/W	99 Lm/W	96 %
707659 55	MASTER TL5 HE 14W/835 1SL	835	85 Ra8	White	3500 K	1250 Lm	1250 Lm	1350 Lm	89 Lm/W	99 Lm/W	96 %
610669 55	MASTER TL5 HE 14W/840 UNP	840	85 Ra8	Cool White	4000 K	1250 Lm	1250 Lm	1350 Lm	89 Lm/W	99 Lm/W	96 %
639400 55	MASTER TL5 HE 14W/840 1SL	840	85 Ra8	Cool White	4000 K	1250 Lm	1250 Lm	1350 Lm	89 Lm/W	99 Lm/W	96 %
610683 55	MASTER TL5 HE 14W/865 UNP	865	85 Ra8	Cool Daylight	6500 K	1175 Lm	1175 Lm	1250 Lm	84 Lm/W	91 Lm/W	96 %
710093 55	MASTER TL5 HE 14W/865 1SL	865	85 Ra8	Cool Daylight	6500 K	1175 Lm	1175 Lm	1250 Lm	84 Lm/W	91 Lm/W	96 %
643209 55	MASTER TL5 HE 21W/827 1SL	827	85 Ra8	Incandescent White	2700 K	1925 Lm	1925 Lm	2100 Lm	93 Lm/W	101 Lm/W	96 %
610706 55	MASTER TL5 HE 21W/830 UNP	830	85 Ra8	Warm white	3000 K	1925 Lm	1925 Lm	2100 Lm	93 Lm/W	101 Lm/W	96 %
639424 55	MASTER TL5 HE 21W/830 1SL	830	85 Ra8	Warm white	3000 K	1925 Lm	1925 Lm	2100 Lm	93 Lm/W	101 Lm/W	96 %
115014 00	MASTER TL5 HE 21W/835 1SL	835	85 Ra8	White	3500 K	1925 Lm	1925 Lm	2100 Lm	93 Lm/W	101 Lm/W	96 %
610720 55	MASTER TL5 HE 21W/840 UNP	840	85 Ra8	Cool White	4000 K	1925 Lm	1925 Lm	2100 Lm	93 Lm/W	101 Lm/W	96 %
639448 55	MASTER TL5 HE 21W/840 1SL	840	85 Ra8	Cool White	4000 K	1925 Lm	1925 Lm	2100 Lm	93 Lm/W	101 Lm/W	96 %
610775 55	MASTER TL5 HE 21W/865 UNP	865	85 Ra8	Cool Daylight	6500 K	1775 Lm	1775 Lm	1950 Lm	86 Lm/W	94 Lm/W	96 %
710116 55	MASTER TL5 HE 21W/865 1SL	865	85 Ra8	Cool Daylight	6500 K	1775 Lm	1775 Lm	1950 Lm	86 Lm/W	94 Lm/W	96 %

Order code	Full product name	Colour Code	Colour Rendering Index	Colour Designation	Colour Temperature	Luminous Flux EL 25°C, Rated	Luminous Flux EL 25°C, Nominal	Luminous Flux Lamp EL 35°C	Lum Efficacy Rated HF 25°C	Lum Efficacy Rated HF 35°C	LLMF HF 2000h Rated
643223 55	MASTER TL5 HE 28W/827 1SL	827	85 Ra8	Incandescent White	2700 K	2625 Lm	2625 Lm	2900 Lm	94 Lm/W	104 Lm/W	96 %
610812 55	MASTER TL5 HE 28W/830 UNP	830	85 Ra8	Warm white	3000 K	2625 Lm	2625 Lm	2900 Lm	94 Lm/W	104 Lm/W	96 %
639462 55	MASTER TL5 HE 28W/830 1SL	830	85 Ra8	Warm white	3000 K	2625 Lm	2625 Lm	2900 Lm	94 Lm/W	104 Lm/W	96 %
710048 55	MASTER TL5 HE 28W/835 1SL	835	85 Ra8	White	3500 K	2625 Lm	2625 Lm	2900 Lm	94 Lm/W	104 Lm/W	96 %
610904 55	MASTER TL5 HE 28W/840 UNP	840	85 Ra8	Cool White	4000 K	2625 Lm	2625 Lm	2900 Lm	94 Lm/W	104 Lm/W	96 %
639486 55	MASTER TL5 HE 28W/840 1SL	840	85 Ra8	Cool White	4000 K	2625 Lm	2625 Lm	2900 Lm	94 Lm/W	104 Lm/W	96 %
610928 55	MASTER TL5 HE 28W/865 UNP	865	85 Ra8	Cool Daylight	6500 K	2450 Lm	2450 Lm	2700 Lm	88 Lm/W	97 Lm/W	96 %
710154 55	MASTER TL5 HE 28W/865 1SL	865	85 Ra8	Cool Daylight	6500 K	2450 Lm	2450 Lm	2700 Lm	88 Lm/W	97 Lm/W	96 %
643247 55	MASTER TL5 HE 35W/827 1SL	827	85 Ra8	Incandescent White	2700 K	3325 Lm	3325 Lm	3650 Lm	94 Lm/W	105 Lm/W	96 %
611031 55	MASTER TL5 HE 35W/830 UNP	830	85 Ra8	Warm white	3000 K	3325 Lm	3325 Lm	3650 Lm	94 Lm/W	105 Lm/W	96 %
639509 55	MASTER TL5 HE 35W/830 1SL	830	85 Ra8	Warm white	3000 K	3325 Lm	3325 Lm	3650 Lm	94 Lm/W	105 Lm/W	96 %
710062 55	MASTER TL5 HE 35W/835 1SL	835	85 Ra8	White	3500 K	3325 Lm	3325 Lm	3650 Lm	94 Lm/W	105 Lm/W	96 %
611055 55	MASTER TL5 HE 35W/840 UNP	840	85 Ra8	Cool White	4000 K	3325 Lm	3325 Lm	3650 Lm	94 Lm/W	105 Lm/W	96 %
639523 55	MASTER TL5 HE 35W/840 1SL	840	85 Ra8	Cool White	4000 K	3325 Lm	3325 Lm	3650 Lm	94 Lm/W	105 Lm/W	96 %
611079 55	MASTER TL5 HE 35W/865 UNP	865	85 Ra8	Cool Daylight	6500 K	3100 Lm	3100 Lm	3400 Lm	87 Lm/W	98 Lm/W	96 %
710185 55	MASTER TL5 HE 35W/865 1SL	865	85 Ra8	Cool Daylight	6500 K	3100 Lm	3100 Lm	3400 Lm	87 Lm/W	98 Lm/W	96 %

Light Technical Characteristics (2/2)

Order code	Full product name	LLMF HF 4000h Rated	LLMF HF 6000h Rated	LLMF HF 8000h Rated	LLMF HF 12000h Rated	LLMF HF 16000h Rated	LLMF HF 20000h Rated	Design Temperature	Chromaticity Coordinate X	Chromaticity Coordinate Y
641021 55	MASTER TL5 HE 14W/827 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	463 -	420 -
610638 55	MASTER TL5 HE 14W/830 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
639387 55	MASTER TL5 HE 14W/830 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
707659 55	MASTER TL5 HE 14W/835 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	409 -	394 -
610669 55	MASTER TL5 HE 14W/840 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
639400 55	MASTER TL5 HE 14W/840 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
610683 55	MASTER TL5 HE 14W/865 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -
710093 55	MASTER TL5 HE 14W/865 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -

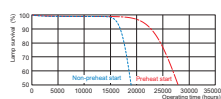
Order code	Full product name	LLMF HF 4000h Rated	LLMF HF 6000h Rated	LLMF HF 8000h Rated	LLMF HF 12000h Rated	LLMF HF 16000h Rated	LLMF HF 20000h Rated	Design Temperature	Chromaticity Coordinate X	Chromaticity Coordinate Y
643209 55	MASTER TL5 HE 21W/827 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	463 -	420 -
610706 55	MASTER TL5 HE 21W/830 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
639424 55	MASTER TL5 HE 21W/830 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
115014 00	MASTER TL5 HE 21W/835 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	409 -	394 -
610720 55	MASTER TL5 HE 21W/840 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
639448 55	MASTER TL5 HE 21W/840 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
610775 55	MASTER TL5 HE 21W/865 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -
710116 55	MASTER TL5 HE 21W/865 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -
643223 55	MASTER TL5 HE 28W/827 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	463 -	420 -
610812 55	MASTER TL5 HE 28W/830 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
639462 55	MASTER TL5 HE 28W/830 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
710048 55	MASTER TL5 HE 28W/835 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	409 -	394 -
610904 55	MASTER TL5 HE 28W/840 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
639486 55	MASTER TL5 HE 28W/840 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
610928 55	MASTER TL5 HE 28W/865 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -
710154 55	MASTER TL5 HE 28W/865 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -
643247 55	MASTER TL5 HE 35W/827 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	463 -	420 -
611031 55	MASTER TL5 HE 35W/830 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
639509 55	MASTER TL5 HE 35W/830 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	440 -	403 -
710062 55	MASTER TL5 HE 35W/835 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	409 -	394 -
611055 55	MASTER TL5 HE 35W/840 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
639523 55	MASTER TL5 HE 35W/840 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	380 -	380 -
611079 55	MASTER TL5 HE 35W/865 UNP	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -
710185 55	MASTER TL5 HE 35W/865 1SL	95 %	94 %	93 %	92 %	91 %	90 %	35 C	313 -	337 -

Electrical Characteristics

Order code	Full product name	Lamp Wattage	Lamp Wattage EL 25°C, Rated	Lamp Wattage EL 25°C, Nominal	Lamp Wattage EL 35°C	Lamp Voltage EL 25°C	Lamp Voltage EL 35°C	Lamp Current EL 25°C	Lamp Current EL 35°C	Dimmable
641021 55	MASTER TL5 HE 14W/827 1SL	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.165 A	0.170 A	yes
610638 55	MASTER TL5 HE 14W/830 UNP	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.165 A	0.170 A	yes
639387 55	MASTER TL5 HE 14W/830 1SL	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.165 A	0.170 A	yes
707659 55	MASTER TL5 HE 14W/835 1SL	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.165 A	0.170 A	yes
610669 55	MASTER TL5 HE 14W/840 UNP	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.165 A	0.170 A	yes
639400 55	MASTER TL5 HE 14W/840 1SL	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.165 A	0.170 A	yes
610683 55	MASTER TL5 HE 14W/865 UNP	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.170 A	0.170 A	yes
710093 55	MASTER TL5 HE 14W/865 1SL	14 W	14.0 W	14 W	13.7 W	86 V	82 V	0.170 A	0.170 A	yes
643209 55	MASTER TL5 HE 21W/827 1SL	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
610706 55	MASTER TL5 HE 21W/830 UNP	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
639424 55	MASTER TL5 HE 21W/830 1SL	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
115014 00	MASTER TL5 HE 21W/835 1SL	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
610720 55	MASTER TL5 HE 21W/840 UNP	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
639448 55	MASTER TL5 HE 21W/840 1SL	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
610775 55	MASTER TL5 HE 21W/865 UNP	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
710116 55	MASTER TL5 HE 21W/865 1SL	21 W	20.6 W	21 W	20.7 W	126 V	123 V	0.165 A	0.170 A	yes
643223 55	MASTER TL5 HE 28W/827 1SL	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
610812 55	MASTER TL5 HE 28W/830 UNP	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
639462 55	MASTER TL5 HE 28W/830 1SL	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
710048 55	MASTER TL5 HE 28W/835 1SL	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
610904 55	MASTER TL5 HE 28W/840 UNP	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
639486 55	MASTER TL5 HE 28W/840 1SL	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
610928 55	MASTER TL5 HE 28W/865 UNP	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
710154 55	MASTER TL5 HE 28W/865 1SL	28 W	27.9 W	28 W	27.8 W	166 V	167 V	0.170 A	0.170 A	yes
643247 55	MASTER TL5 HE 35W/827 1SL	35 W	35.5 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes
611031 55	MASTER TL5 HE 35W/830 UNP	35 W	35.3 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes
639509 55	MASTER TL5 HE 35W/830 1SL	35 W	35.3 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes
710062 55	MASTER TL5 HE 35W/835 1SL	35 W	35.5 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes

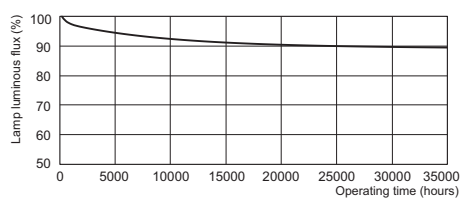
Order code	Full product name	Lamp Wattage	Lamp Wattage EL 25°C, Rated	Lamp Wattage EL 25°C, Nominal	Lamp Wattage EL 35°C	Lamp Voltage EL 25°C	Lamp Voltage EL 35°C	Lamp Current EL 25°C	Lamp Current EL 35°C	Dimmable
611055 55	MASTER TL5 HE 35W/840 UNP	35 W	38.5 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes
639523 55	MASTER TL5 HE 35W/840 1SL	35 W	38.5 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes
611079 55	MASTER TL5 HE 35W/865 UNP	35 W	35.5 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes
710185 55	MASTER TL5 HE 35W/865 1SL	35 W	35.5 W	35 W	34.7 W	205 V	209 V	0.175 A	0.170 A	yes

Performance diagrams

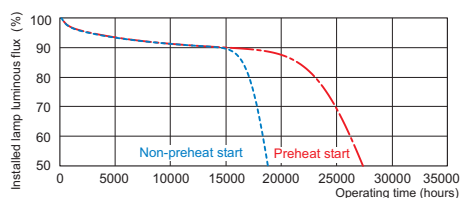


Life Expectancy 3 h

cycle



Lumen Maintenance 3 h + 12 h cycle



Service Lifetime 3 h cycle

Environmental Characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content
641021 55	MASTER TL5 HE 14W/827 1SL	A+	1.4 mg
610638 55	MASTER TL5 HE 14W/830 UNP	A+	1.4 mg
639387 55	MASTER TL5 HE 14W/830 1SL	A+	1.4 mg
707659 55	MASTER TL5 HE 14W/835 1SL	A+	1.4 mg
610669 55	MASTER TL5 HE 14W/840 UNP	A+	1.4 mg
639400 55	MASTER TL5 HE 14W/840 1SL	A+	1.4 mg
610683 55	MASTER TL5 HE 14W/865 UNP	A+	1.4 mg
710093 55	MASTER TL5 HE 14W/865 1SL	A+	1.4 mg
643209 55	MASTER TL5 HE 21W/827 1SL	A+	1.4 mg
610706 55	MASTER TL5 HE 21W/830 UNP	A+	1.4 mg
639424 55	MASTER TL5 HE 21W/830 1SL	A+	1.4 mg

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content
115014 00	MASTER TL5 HE 21W/835 1SL	A+	1.4 mg
610720 55	MASTER TL5 HE 21W/840 UNP	A+	1.4 mg
639448 55	MASTER TL5 HE 21W/840 1SL	A+	1.4 mg
610775 55	MASTER TL5 HE 21W/865 UNP	A+	1.4 mg
710116 55	MASTER TL5 HE 21W/865 1SL	A+	1.4 mg
643223 55	MASTER TL5 HE 28W/827 1SL	A+	1.4 mg
610812 55	MASTER TL5 HE 28W/830 UNP	A+	1.4 mg
639462 55	MASTER TL5 HE 28W/830 1SL	A+	1.4 mg
710048 55	MASTER TL5 HE 28W/835 1SL	A+	1.4 mg
610904 55	MASTER TL5 HE 28W/840 UNP	A+	1.4 mg
639486 55	MASTER TL5 HE 28W/840 1SL	A+	1.4 mg

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content
610928 55	MASTER TL5 HE 28W/865 UNP	A+	1.4 mg
710154 55	MASTER TL5 HE 28W/865 1SL	A+	1.4 mg
643247 55	MASTER TL5 HE 35W/827 1SL	A+	1.4 mg
611031 55	MASTER TL5 HE 35W/830 UNP	A+	1.4 mg
639509 55	MASTER TL5 HE 35W/830 1SL	A+	1.4 mg
710062 55	MASTER TL5 HE 35W/835 1SL	A+	1.4 mg
611055 55	MASTER TL5 HE 35W/840 UNP	A+	1.4 mg
639523 55	MASTER TL5 HE 35W/840 1SL	A+	1.4 mg
611079 55	MASTER TL5 HE 35W/865 UNP	A+	1.4 mg
710185 55	MASTER TL5 HE 35W/865 1SL	A+	1.4 mg

Measuring Conditions

Order code	Full product name	Calibration Current	HF Generator Rated Voltage	Resistor
641021 55	MASTER TL5 HE 14W/827 1SL	0.170 A	167 V	500 ohm
610638 55	MASTER TL5 HE 14W/830 UNP	0.170 A	167 V	500 ohm
639387 55	MASTER TL5 HE 14W/830 1SL	0.170 A	167 V	500 ohm
707659 55	MASTER TL5 HE 14W/835 1SL	0.170 A	167 V	500 ohm
610669 55	MASTER TL5 HE 14W/840 UNP	0.170 A	167 V	500 ohm
639400 55	MASTER TL5 HE 14W/840 1SL	0.170 A	167 V	500 ohm
610683 55	MASTER TL5 HE 14W/865 UNP	0.170 A	167 V	500 ohm
710093 55	MASTER TL5 HE 14W/865 1SL	0.170 A	167 V	500 ohm
643209 55	MASTER TL5 HE 21W/827 1SL	0.170 A	246 V	725 ohm
610706 55	MASTER TL5 HE 21W/830 UNP	0.170 A	246 V	725 ohm
639424 55	MASTER TL5 HE 21W/830 1SL	0.170 A	246 V	725 ohm
115014 00	MASTER TL5 HE 21W/835 1SL	0.170 A	246 V	725 ohm

Order code	Full product name	Calibration Current	HF Generator Rated Voltage	Resistor
610720 55	MASTER TL5 HE 21W/840 UNP	0.170 A	246 V	725 ohm
639448 55	MASTER TL5 HE 21W/840 1SL	0.170 A	246 V	725 ohm
610775 55	MASTER TL5 HE 21W/865 UNP	0.170 A	246 V	725 ohm
710116 55	MASTER TL5 HE 21W/865 1SL	0.170 A	246 V	725 ohm
643223 55	MASTER TL5 HE 28W/827 1SL	0.170 A	329 V	950 ohm
610812 55	MASTER TL5 HE 28W/830 UNP	0.170 A	329 V	950 ohm
639462 55	MASTER TL5 HE 28W/830 1SL	0.170 A	329 V	950 ohm
710048 55	MASTER TL5 HE 28W/835 1SL	0.170 A	329 V	950 ohm
610904 55	MASTER TL5 HE 28W/840 UNP	0.170 A	329 V	950 ohm
639486 55	MASTER TL5 HE 28W/840 1SL	0.170 A	329 V	950 ohm
610928 55	MASTER TL5 HE 28W/865 UNP	0.170 A	329 V	950 ohm
710154 55	MASTER TL5 HE 28W/865 1SL	0.170 A	329 V	950 ohm
643247 55	MASTER TL5 HE 35W/827 1SL	0.170 A	413 V	1200 ohm
611031 55	MASTER TL5 HE 35W/830 UNP	0.170 A	413 V	1200 ohm
639509 55	MASTER TL5 HE 35W/830 1SL	0.170 A	413 V	1200 ohm
710062 55	MASTER TL5 HE 35W/835 1SL	0.170 A	413 V	1200 ohm
611055 55	MASTER TL5 HE 35W/840 UNP	0.170 A	413 V	1200 ohm
639523 55	MASTER TL5 HE 35W/840 1SL	0.170 A	413 V	1200 ohm
611079 55	MASTER TL5 HE 35W/865 UNP	0.170 A	413 V	1200 ohm
710185 55	MASTER TL5 HE 35W/865 1SL	0.170 A	413 V	1200 ohm



© 2013 Koninklijke Philips N.V. (Royal Philips)
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

www.philips.com/lighting

2013, July 18
data subject to change