

2015, December 22
data subject to change

The world's most efficient fluorescent lighting

MASTER TL5 High Efficiency Eco

This extremely efficient TL5 lamp (tube diameter 16 mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HE Eco lamp offers excellent lumen maintenance and colour rendering. Application areas vary from offices and industry to schools and retail environments.

Benefits

- Up to 10 % energy saving with simply changing the lamp
- The same quality of light as compared with MASTER TL5 HE lamps
- All benefits of regular TL5 lamps

Features

- High lamp efficacies up to 114 lm/W
- Up to 10% power reduction in comparison with standard MASTER TL5 HE lamps
- Fluorescent Super 80 light quality

Application

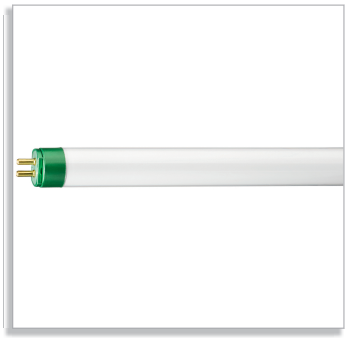
- Ideally suited for recessed, surface-mounted and suspended luminaires e.g. in offices, shops, schools, public buildings and industry (low ceiling), wherever high-quality, energy-efficient lighting is required

PHILIPS

Warnings and Safety

- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.
- 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.

Related products

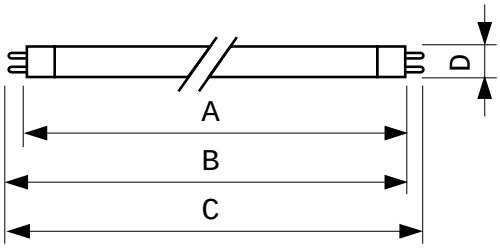


G5, T5

Dimensional drawing

TL5 HE Eco 19=21W/840

Product	D	A	B	B	C
MASTER TL5 HE Eco 19=21W/840 1SL/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm



G5, T5

General Information

order code	Bulb Shape	Cap-Base	Life To 50% Failures Preheat (Nom)	LSF Preheat 16000 h Rated	LSF Preheat 20000 h Rated	LSF Preheat 2000 h Rated	LSF Preheat 4000 h Rated	LSF Preheat 6000 h Rated	LSF Preheat 8000 h Rated
88081600	T5	G5	25000	99	94	99	99	99	99
88083000	T5	G5	25000	99	94	99	99	99	99
90808401	T5	G5	25000	99	94	99	99	99	99
82588600	T5	G5	25000	99	94	99	99	99	99

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82589300	T5	G5	25000	99	94	99	99	99	99
82593000	T5	G5	25000	99	94	99	99	99	99
90826801	T5	G5	25000	99	94	99	99	99	99

Light Technical (1/2)

order code	Chroma-ticity Coor-dinate X (Nom)	Chroma-ticity Coor-dinate Y (Nom)	Color Designation	Correlated Color Tempera-ture (Nom)	Color Rendering Index (Max)	Color Rendering Index (Min)	Color Rendering Index (Nom)	LLMF 12000 h Rated	LLMF 16000 h Rated	LLMF 2000 h Rated
88081600	440	403	Warm white (WW)	3000	85	80	82	92	91	96
88083000	380	380	Cool White (CW)	4100	85	80	82	92	91	96
90808401	313	337	Cool Daylight	6500	85	80	82	92	91	96
82588600	440	403	Warm white (WW)	3000	85	80	82	92	91	96
82589300	380	380	Cool White (CW)	4100	85	80	82	92	91	96
82593000	380	380	Cool White (CW)	4100	85	80	82	92	91	96
90826801	380	380	Cool White (CW)	4100	85	80	82	92	91	96

Light Technical (2/2)

order code	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Effi-cacy (@ Max Lumen, Rated) (Nom)	Luminous Effi-cacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
88081600	88	95	94	93	108	92	1350	1150
88083000	90	95	94	93	108	92	1350	1150
90808401	90	95	94	93	100	86	1250	1075
82588600	90	95	94	93	114	103	2900	2600
82589300	90	95	94	93	114	103	2900	2600
82593000	90	95	94	93	114	103	3650	3250
90826801	90	95	94	93	114	103	3650	3250

Operating and Electrical

order code	Lamp Current (Nom)	Power (Rated) (Nom)
88081600	0.170	12.5
88083000	0.170	13
90808401	0.170	12.5
82588600	0.170	25.2
82589300	0.170	25.2
82593000	0.170	31.7
90826801	0.170	31.7

Temperature

order code	Design Temperature (Nom)
88081600	35
88083000	35
90808401	35
82588600	35
82589300	35
82593000	35
90826801	35

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
88081600	14	A+	1.4
88083000	14	A+	1.4
90808401	14	A+	1.4
82588600	28	A+	1.4
82589300	28	A+	1.4

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
82593000	35	A+	1.4
90826801	35	A+	1.4

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