

2015, December 22
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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 color 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

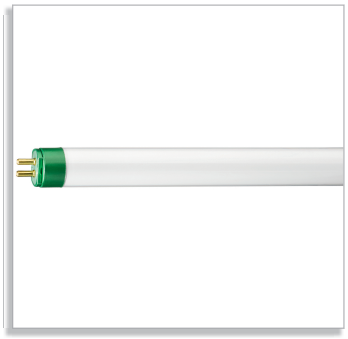
- Ideally suited for recessed, surface-mounted and suspended luminaires e.g. in offices, shops, schools, public buildings and industry (low ceiling), wherever high-quality, energy-efficient lighting is required

PHILIPS

Warnings and Safety

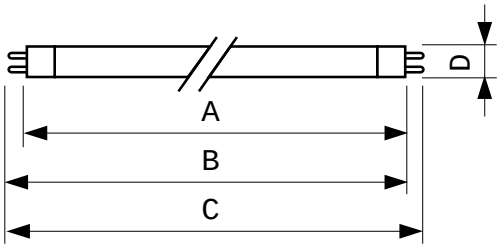
- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate 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
90806001	T5	G5	25000	99	94	99	99	99	99
90808401	T5	G5	25000	99	94	99	99	99	99

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82588600	T5	G5	25000	99	94	99	99	99	99
82589300	T5	G5	25000	99	94	99	99	99	99
90820601	T5	G5	25000	99	94	99	99	99	99
90822001	T5	G5	25000	99	94	99	99	99	99
82592300	T5	G5	25000	99	94	99	99	99	99
82593000	T5	G5	25000	99	94	99	99	99	99
91814401	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 Code	Color Desig-nation	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
88081600	440	403	-	Warm White (WW)	3000	85	80	82	92	91
88083000	380	380	841	Cool White (CW)	4100	85	80	82	92	91
90806001	380	380	841	Cool White (CW)	4100	85	80	82	92	91
90808401	313	337	-	Cool Daylight	6500	85	80	82	92	91
82588600	440	403	-	Warm White (WW)	3000	85	80	82	92	91
82589300	380	380	841	Cool White (CW)	4100	85	80	82	92	91
90820601	380	380	841	Cool White (CW)	4100	85	80	82	92	91
90822001	313	337	-	Cool Daylight	6500	85	80	82	92	91
82592300	440	403	-	Warm White (WW)	3000	85	80	82	92	91
82593000	380	380	841	Cool White (CW)	4100	85	80	82	92	91
91814401	380	380	841	Cool White (CW)	4100	85	80	85	92	91

Light Technical (2/2)

order code	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Effi-cacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
88081600	96	88	95	94	93	108	92	1350	1150
88083000	96	90	95	94	93	108	92	1350	1150
90806001	96	90	95	94	93	108	92	1350	1150
90808401	96	90	95	94	93	100	86	1250	1075
82588600	96	90	95	94	93	114	103	2900	2600
82589300	96	90	95	94	93	114	103	2900	2600
90820601	96	90	95	94	93	114	103	2900	2600
90822001	96	90	95	94	93	106	96	2700	2425
82592300	96	90	95	94	93	114	103	3650	3250
82593000	96	90	95	94	93	114	103	3650	3250
91814401	96	90	95	94	93	112	96	2100	1800

Operating and Electrical

order code	Lamp Current (Nom)	Power (Rated) (Nom)
88081600	0.170	12.5
88083000	0.170	13
90806001	0.170	13
90808401	0.170	12.5
82588600	0.170	25.2
82589300	0.170	25.2
90820601	0.170	25.2
90822001	0.170	25.2
82592300	0.170	31.7
82593000	0.170	31.7
91814401	0.170	18.7

Temperature

order code	Design Temperature (Nom)
88081600	35
88083000	35
90806001	35
90808401	35
82588600	35
82589300	35
90820601	35
90822001	35
82592300	35
82593000	35
91814401	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
90806001	14	A+	1.4
90808401	14	A+	1.4
82588600	28	A+	1.4
82589300	28	A+	1.4
90820601	28	A+	1.4
90822001	28	A+	1.4
82592300	35	A+	1.4
82593000	35	A+	1.4
91814401	21	A+	1.4

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