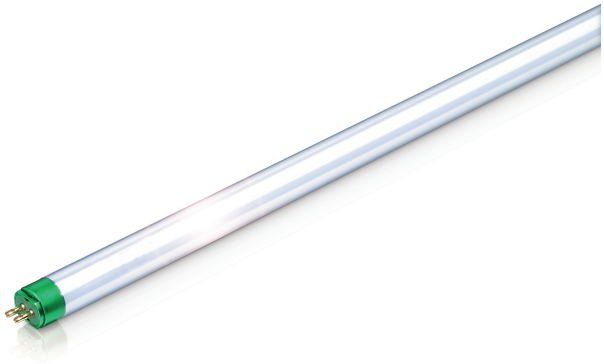


2015, December 22
data subject to change

The world's most efficient and brightest fluorescent lighting

MASTER TL5 High Output Eco

This extremely efficient TL5 lamp (tube diameter 16 mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HO Eco lamp is optimized for installations requiring high light output and 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 HO lamps
- All benefits of regular TL5 lamps

Features

- High lamp efficacies up to 109 lm/W
- Up to 10% power reduction in comparison with standard MASTER TL5 HO lamps

Application

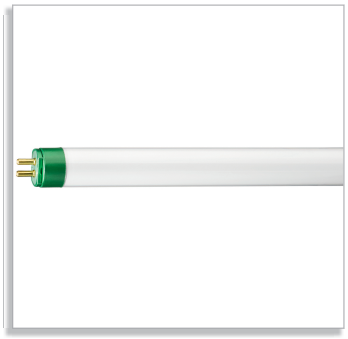
- Offers very economic solutions for high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

PHILIPS

Warnings and Safety

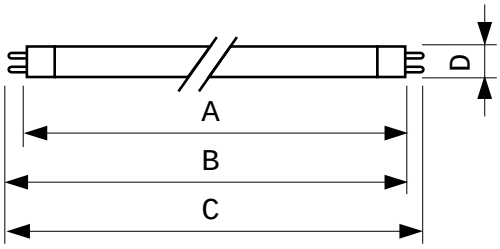
- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate 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 HO Eco 34=39W/840

Product	D	A	B	B	C
MASTER TL5 HO Eco 34=39W/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
88084700	T5	G5	30000	99	94	99	99	99	99
90810701	T5	G5	30000	99	94	99	99	99	99
88086100	T5	G5	30000	99	94	99	99	99	99
90814501	T5	G5	30000	99	94	99	99	99	99

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
82590900	T5	G5	30000	99	94	99	99	99	99
82591600	T5	G5	30000	99	94	99	99	99	99
90834301	T5	G5	30000	99	94	99	99	99	99
90836701	T5	G5	30000	99	94	99	99	99	99
82594700	T5	G5	30000	99	94	99	99	99	99
90838101	T5	G5	30000	99	94	99	99	99	99
82595400	T5	G5	30000	99	94	99	99	99	99
90840401	T5	G5	30000	99	94	99	99	99	99
82596100	T5	G5	30000	99	94	99	99	99	99
90844201	T5	G5	30000	99	94	99	99	99	99
82597800	T5	G5	30000	99	94	99	99	99	99
90846601	T5	G5	30000	99	94	99	99	99	99
91808301	T5	G5	30000	99	94	99	99	99	99

Light Technical (1/2)

order code	Chroma-ticity Coordi-nate X (Nom)	Chroma-ticity Coordi-nate Y (Nom)	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	LLMF 2000 h Rated
88084700	440	403	Warm white (WW)	3000	85	80	82	92	91	96
90810701	440	403	Warm white (WW)	3000	85	80	82	92	91	96
88086100	380	380	Cool White (CW)	4100	85	80	82	92	91	96
90814501	380	380	Cool White (CW)	4100	85	80	82	92	91	96
82590900	440	403	Warm white (WW)	3000	85	80	85	92	91	96
82591600	380	380	Cool White (CW)	4100	85	80	85	92	91	96
90834301	380	380	Cool White (CW)	4100	85	80	85	92	91	96
90836701	313	337	Cool Daylight	6500	85	80	85	92	91	96
82594700	440	403	Warm white (WW)	3000	85	80	82	92	91	96
90838101	440	403	Warm white (WW)	3000	85	80	82	92	91	96
82595400	380	380	Cool White (CW)	4100	85	80	82	92	91	96
90840401	380	380	Cool White (CW)	4100	85	80	82	92	91	96
82596100	440	403	Warm white (WW)	3000	85	80	82	92	91	96
90844201	440	403	Warm white (WW)	3000	85	80	82	92	91	96
82597800	380	380	Cool White (CW)	4100	85	80	82	92	91	96
90846601	380	380	Cool White (CW)	4100	85	80	82	92	91	96
91808301	380	380	Cool White (CW)	4100	85	80	85	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)
88084700	90	95	94	93	99	85	1950	1650
90810701	90	95	94	93	99	85	1950	1650
88086100	90	95	94	93	99	85	1950	1650
90814501	90	95	94	93	99	85	1950	1650

order code	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
82590900	90	95	94	93	102	93	5000	4450
82591600	90	95	94	93	102	93	5000	4450
90834301	90	95	94	93	102	93	5000	4450
90836701	90	95	94	93	95	86	4650	4150
82594700	90	95	94	93	108	92	4900	4100
90838101	90	95	94	93	108	92	4900	4100
82595400	90	95	94	93	108	92	4900	4100
90840401	90	95	94	93	108	92	4900	4100
82596100	90	95	94	93	95	89	7000	6550
90844201	90	95	94	93	95	89	7000	6550
82597800	90	95	94	93	95	89	7000	6550
90846601	90	95	94	93	95	89	7000	6550
91808301	90	95	94	93	102	94	3500	3250

Operating and Electrical

order code	Lamp Current (Nom)	Power (Rated) (Nom)
88084700	0.300	19.5
90810701	0.300	19.5
88086100	0.300	19.5
90814501	0.300	19.5
82590900	0.460	48
82591600	0.460	48
90834301	0.460	48
90836701	0.460	48
82594700	0.260	44.6
90838101	0.260	44.6
82595400	0.260	44.6
90840401	0.260	44.6
82596100	0.550	73.3
90844201	0.550	73.3
82597800	0.550	73.3
90846601	0.550	73.3
91808301	0.340	34.6

Temperature

order code	Design Temperature (Nom)
88084700	35
90810701	35
88086100	35
90814501	35
82590900	35
82591600	35
90834301	35
90836701	35
82594700	35

order code	Design Temperature (Nom)
90838101	35
82595400	35
90840401	35
82596100	35
90844201	35
82597800	35
90846601	35
91808301	35

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
88084700	22	A+	1.4
90810701	22	A+	1.4
88086100	22	A+	1.4
90814501	22	A+	1.4
82590900	54	A+	1.4
82591600	54	A+	1.4
90834301	54	A+	1.4
90836701	54	A+	1.4
82594700	50	A+	1.4
90838101	50	A+	1.4
82595400	50	A+	1.4
90840401	50	A+	1.4
82596100	80	A+	1.4
90844201	80	A+	1.4
82597800	80	A+	1.4

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
90846601	80	A+	1.4
91808301	38	A+	1.4

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2015, December 22
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