

LUMILUX® T5 HO XT

LONG LIFE, REDUCED MAINTENANCE COSTS &
OSRAM SYSTEM⁺ GUARANTEE



LUMILUX® T5 HO XT



QTi DALI/DIM / QTi GII / QTP5



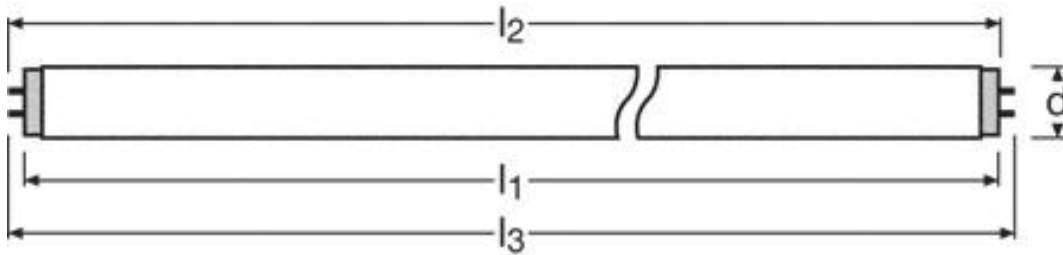
Benefits

- Much lower total cost of ownership, comprising investment, maintenance and relamping costs
- Lower maintenance costs thanks to longer relamping intervals
- Fewer lamps to dispose due to the longer service life¹
- Compatible and one to one replacement to existing standard T5 HO LUMILUX® lamps
- Ideal for lighting systems in which re-lamping is a costly operation, such as in factories with high ceilings, subway stations, tunnels and street lighting
- OSRAM System⁺ Guarantee in combination with OSRAM ECGs

Product Features

- Extremely reliable: long life, low premature failure rate, 90% luminous flux during average life time
- Very good luminous flux maintenance throughout the life of the lamp
- Extremely long average life time: up to 45,000h (with QUICKTRONIC®)
- High lumen package
- Good color Rendering Group 1B (R_a 80-89)
- Dimmable
- Light colors: Cool Daylight (865), Cool White (840), Warm White (830), INTERNA (827)

Dimensions



Description	Base	Length (l1) max [mm]	Length (l2) min [mm]	Length (l2) max [mm]	Length (l3) max [mm]	Tube Diameter (d) max [mm]
LUMILUX® T5 HO 49 W XT	G5	1449	1453.7	1456.1	1463.2	16
LUMILUX® T5 HO 54 W XT	G5	1149	1153.7	1156.1	1163.2	16
LUMILUX® T5 HO 80 W XT	G5	1449	1453.7	1456.1	1463.2	16

¹ Service life time is the mathematical life time (maintenance multiplied with the % of failed lamps e.g. B10) for lamps in an installation after which the installation luminous flux (100 h value) decreased with 20 % (decrease in luminous flux and failed lamps) for indoor lighting.

Edition 08.2013. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

LP LPD EM

Electrical Data²

LUMILUX® T5 HO XT	Lamp Voltage in HF ³ mode rated [V]	Lamp Current in HF mode rated [mA]	Pre-heat current rated [mA]
49 W	195	255	330
54 W	120	455	720
80 W	152	530	765

Photometrical Data⁴

LUMILUX® T5 HO XT	Light Color LUMILUX®	Color Rendering Index (CRI), Ra	Target Color Coordi- nate X	Target Color Coordi- nate Y	Color Tempe- rature [K]	Nominal Luminous Flux [lm]	Max. Luminous Flux [lm]
49 W	827 INTERNA	80 ... 89	0.463	0.420	2700	4310	4900
49 W	830 Warm White	80 ... 89	0.440	0.403	3000	4310	4900
49 W	840 Cool White	80 ... 89	0.380	0.380	4000	4310	4900
49 W	865 Cool Daylight	80 ... 89	0.313	0.337	6500	4100	4600
54 W	827 INTERNA	80 ... 89	0.463	0.420	2700	4450	5000
54 W	830 Warm White	80 ... 89	0.440	0.403	3000	4450	5000
54 W	840 Cool White	80 ... 89	0.380	0.380	4000	4450	5000
54 W	865 Cool Daylight	80 ... 89	0.313	0.337	6500	4100	4750
80 W	827 INTERNA	80 ... 89	0.463	0.420	2700	6150	7000
80 W	830 Warm White	80 ... 89	0.440	0.403	3000	6150	7000
80 W	840 Cool White	80 ... 89	0.380	0.380	4000	6150	7000
80 W	865 Cool Daylight	80 ... 89	0.313	0.337	6500	5700	6650

² According to IEC 60081 (measurement with reference control gear)

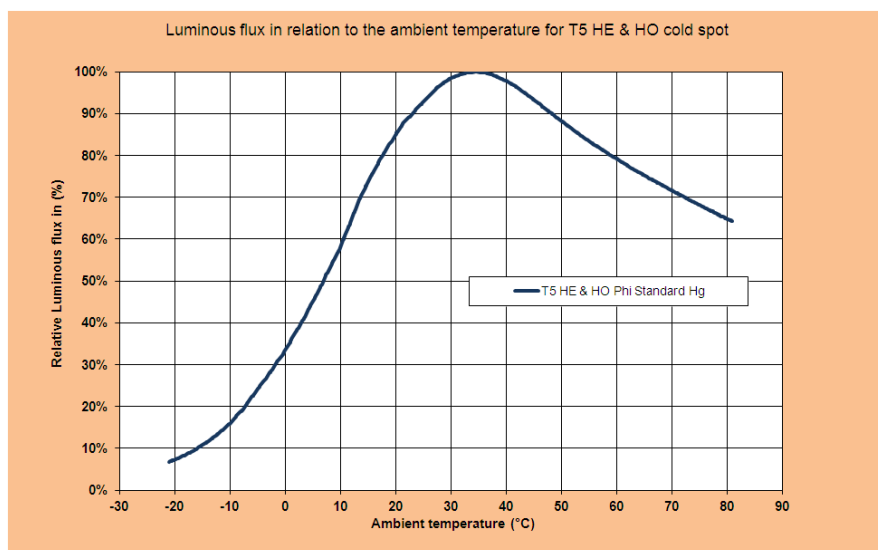
³ High Frequency

⁴ Measurement in accordance with EN 60081, annex C and the relevant annex on rated colour characteristics in IEC 60081.

Edition 08.2013. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

LP LPD EM

Relative Luminous Flux / Ambient Temperature



For more detailed information please refer to our technical guide for Fluorescent Lamps. Free download at www.osram.com

Lifetime⁵

	ECG ⁶ (IEC 60929) preheat IEC 60081 switching cycle ⁷
B50⁸	45,000 h
Service life time⁹	30,000 h
LLMF¹⁰ 20.000 h	0.90
LLMF 16.000 h	0.90
LLMF 12.000 h	0.90
LLMF 8.000 h	0.90
LLMF 6.000 h	0.91
LLMF 4.000 h	0.92
LLMF 2.000 h	0.95
LSF¹¹ 20.000 h	0.98
LSF 16.000 h	0.99
LSF 12.000 h	0.99
LSF 8.000 h	0.99
LSF 6.000 h	0.99
LSF 4.000 h	0.99
LSF 2.000 h	0.99

⁵ Measurement in accordance with EN 60081, annex C.

⁶ Electronic Control Gear

⁷ Switching cycle 165 min. on, 15 min. off (according to IEC 60081)

⁸ Average rated lamp life (B50) is the average value of the life time for an entity of lamps operated under standardized conditions until 50% failure. In other words, this is the operation time at which, for a standardized 3-hour switching cycle (165 minutes on / 15 minutes off (according to IEC)), 50% of a sample population of lamps have failed.

⁹ Service life time is the mathematical life time (maintenance multiplied with the % of failed lamps e.g. B10) for lamps in an installation after which the installation luminous flux (100 h value) decreased with 20 % (decrease in luminous flux and failed lamps) for indoor lighting.

¹⁰ Lamp Lumen Maintenance Factor (lamp luminous flux in %): Ratio of the luminous flux of a specific quantity of lamps at a defined number of hours of operation to their luminous flux at 100 h

¹¹ Lamp Survival Factor (lamp survival in %): Ratio of the number of electrically intact lamps to the total number of lamps

Edition 08.2013. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

LP LPD EM

Energy labelling¹²

Description	Energy efficiency class	Weighted energy consumption E _c [kWh/1000h]
LUMILUX® T5 HO XT 49W/827	A+	55
LUMILUX® T5 HO XT 49W/830	A+	55
LUMILUX® T5 HO XT 49W/840	A+	55
LUMILUX® T5 HO XT 49W/865	A+	55
LUMILUX® T5 HO XT 54W/827	A+	60
LUMILUX® T5 HO XT 54W/830	A+	60
LUMILUX® T5 HO XT 54W/840	A+	60
LUMILUX® T5 HO XT 54W/865	A+	60
LUMILUX® T5 HO XT 80W/827	A	88
LUMILUX® T5 HO XT 80W/830	A	88
LUMILUX® T5 HO XT 80W/840	A	88
LUMILUX® T5 HO XT 80W/865	A	88

Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
LUMILUX® T5 HO XT 49W/827	4008321958488	4008321958617	20
LUMILUX® T5 HO XT 49W/830	4008321958495	4008321958624	20
LUMILUX® T5 HO XT 49W/840	4008321958501	4008321958631	20
LUMILUX® T5 HO XT 49W/865	4008321958518	4008321958648	20
LUMILUX® T5 HO XT 54W/827	4008321958525	4008321958655	20
LUMILUX® T5 HO XT 54W/830	4008321958549	4008321958662	20
LUMILUX® T5 HO XT 54W/840	4008321958556	4008321958679	20
LUMILUX® T5 HO XT 54W/865	4008321958563	4008321958686	20
LUMILUX® T5 HO XT 80W/827	4008321958570	4008321958693	20
LUMILUX® T5 HO XT 80W/830	4008321958587	4008321958709	20
LUMILUX® T5 HO XT 80W/840	4008321958594	4008321958716	20
LUMILUX® T5 HO XT 80W/865	4008321958600	4008321958723	20

¹² According to Regulation (EU) No 874/2012 of July 12, 2012

Edition 08.2013. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

LP LPD EM

Lamp/ECG System combination

Lamp	ECG	EAN 10 ECG	Luminous Flux [lm] @25°C	System Power [W]	IN [A]	Power Factor ECG	System Luminous Efficacy [lm/W]	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T _a [°C]
LUMILUX® T5 HO XT 49 W	QTi DALI 1x35/49/80/220-240 DIM	4050300870342	4300	53.4	0.24	0.98	81	360	30	21	350	+10...+50
	QTi DALI 2x35/49/80/220-240 DIM	4050300870441	8600	101	0.46	0.99	85	423	30	21	415	+10...+50
	QTi DALI 2x35/49/220-240 DIM	4050300870465	8600	103.6	0.45	0.99	83	423	30	21	415	+10...+50
	QTi 1x35/49/80/220-240 DIM	4050300870540	4300	53.4	0.24	0.98	81	360	30	21	350	+10...+50
	QTi 2x35/49/80/220-240 DIM	4050300870984	8600	103	0.46	0.97	81	423	30	21	415	+10...+50
	QTi 2x35/49/220-240 DIM	4050300870670	8600	103.6	0.45	0.97	83	423	30	21	415	+10...+50
	QTi 1x28/54/35/49 GII	4008321383358	4300	53	0.24	0.97	81	360	30	21	350	-20...+50
	QTi 2x28/54/35/49 GII	4008321383419	8600	105	0.46	0.98	82	360	30	21	350	-20...+50
	QTi 1x35/49/80 GII	4008321383372	4300	53	0.24	0.97	81	360	30	21	350	-20...+50
	QTi 2x35/49/80/220-240	4008321174291	8600	104	0.46	0.97	83	425	30	21	415	-20...+50
	QTP5 1x49	4008321329370	4300	53	0.24	0.95	81	280	30	21	270	-20...+50
	QTP5 2x49	4008321329431	8600	106	0.49	0.99	81	360	30	21	350	-20...+50
LUMILUX® T5 HO XT 54 W	QTi DALI 1x28/54/220-240 DIM	4050300870809	4850	58.8	0.26	0.99	82	360	30	21	350	+10...+50
	QTi DALI 2x28/54/220-240 DIM	4050300870502	9700	115	0.51	0.99	84	423	30	21	415	+10...+50
	QTi 1x28/54/220-240 DIM	4050300870588	4850	58.8	0.26	0.99	82	360	30	21	350	+10...+50
	QTi 2x28/54/220-240 DIM	4050300870717	9700	115	0.51	0.98	84	423	30	21	415	+10...+50
	QTi 1x28/54/35/49 GII	4008321383358	4450	58	0.26	0.97	77	360	30	21	350	-20...+50
	QTi 2x28/54/35/49 GII	4008321383419	8900	115	0.51	0.98	77	360	30	21	350	-20...+50
	QTP5 1x54	4008321329394	4450	59	0.26	0.98	75	280	30	21	270	-20...+50
	QTP5 2x54	4008321329097	8900	115	0.50	0.99	77	360	30	21	350	-20...+50

Edition 08.2013. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.
LP LPD EM

Lamp	ECG	EAN 10 ECG	Luminous Flux [lm] @25°C	System Power [W]	IN [A]	Power Factor ECG	System Luminous Efficacy [lm/W]	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T _a [°C]
LUMILUX® T5 HO XT 80 W	QTi DALI 1x35/49/80/220-240 DIM	4050300870342	6150	88.1	0.39	0.99	70	360	30	21	350	+10...+50
	QTi DALI 2x35/49/80/220-240 DIM	4050300870441	12300	165	0.74	0.99	75	423	30	21	415	+10...+50
	QTi 1x35/49/80/220-240 DIM	4050300870540	6150	88.1	0.39	0.99	70	360	30	21	350	+10...+50
	QTi 2x35/49/80/220-240 DIM	4050300870984	12300	165	0.74	0.99	75	423	30	21	415	+10...+50
	QTi 1x35/49/80 GII	4008321383372	6150	85	0.38	0.98	72	360	30	21	350	-20...+50
	QTi 2x35/49/80/220-240	4008321174291	12300	165	0.74	0.99	75	425	30	21	415	-20...+50
	QTP5 1x80	4008321329059	6150	86	0.38	0.98	72	360	30	21	350	-20...+50
	QT-FQ 2x80	4050300825564	12600	175	0.76	0.98	72	423	30	21	415	-20...+50

For more information on ECG refer to <http://www.osram.com/ecg>

For more information on System Guarantee refer to <http://www.osram.com/guarantee>

In case of lamp breakage: www.osram.com/brokenlamp

For more information technical Information see Technical guide. Free download at www.osram.com