LUMILUX® T5 HO CONSTANT

Constant Light output over a wider temperature range

LUMILUX® T5 HO CONSTANT

QTi DALI/DIM / QTi GII / QTP5

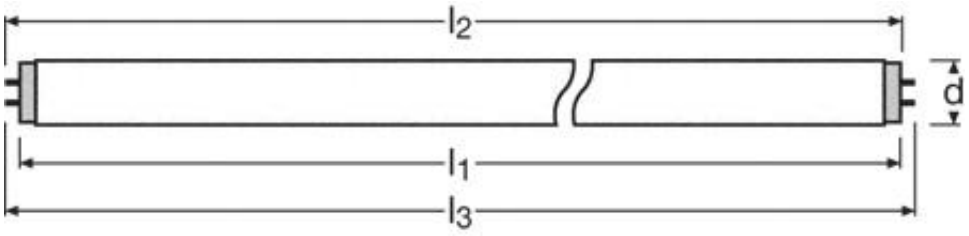
Benefits

- Impressive luminous flux at high and low ambient temperature
- Stable and suitable for luminaires that contain special material, outdoor applications or with low heat insulation.
- Compatible and one to one replacement to existing T5 lamps
- Very good luminous flux maintenance throughout the life of the lamp

Product Features

- Luminous flux greater than 90% in an ambient temperature range of +50°C to +70°C (The 49W CONSTANT: 20°C to 80°C)
- High efficacy
- Long average life time: up to 24,000 h (with QUICKTRONIC®)
- Good color rendering index 1B (Ra: 80…89)
- Dimmable with appropriate ECG
- Up to 15% more Luminaire Efficiency in comparison to current standard T5 lamps
- Available colors: Cool Daylight (865), Cool White (840), Warm White (830)

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 CONSTANT 24 W	G5	549	553.7	556.1	563.2	17
LUMILUX® T5 HO CONSTANT 39 W	G5	849	853.7	856.1	863.2	17
LUMILUX® T5 HO CONSTANT 49 W	G5	1449	1453.7	1456.1	1463.2	17
LUMILUX® T5 HO CONSTANT 54 W	G5	1149	1153.7	1153.1	1163.2	17
LUMILUX® T5 HO CONSTANT 80 W	G5	1449	1453.7	1456.1	1463.2	17

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Electrical Data[1]

LUMILUX® T5 HO CONSTANT	Lamp Voltage in HF[2] mode rated [V]	Lamp Current in HF mode rated [mA]	Pre-heat current rated [mA]
24 W	77	295	440
39 W	118	325	440
49 W	195	255	330
54 W	120	455	720
80 W	152	530	765

Photometrical Data[3]

LUMILUX® T5 HO CONSTANT	Light Color LUMILUX®	Color Rendering Index (CRI), Ra	Target Color Coor-dinate X	Target Color Coor-dinate Y	Color Tempe-rature [K]	Nominal Luminous Flux [lm]	Max. Luminous Flux [lm]
24 W	830 Warm White	80 … 89	0.440	0.403	3000	1900	2000
24 W	840 Cool White	80 … 89	0.380	0.380	4000	1900	2000
24 W	865 Cool Daylight	80 … 89	0.313	0.337	6500	1840	1900
39 W	830 Warm White	80 … 89	0.440	0.403	3000	3400	3500
39 W	840 Cool White	80 … 89	0.380	0.380	4000	3400	3500
39 W	865 Cool Daylight	80 … 89	0.313	0.337	6500	3225	3325
49 W	830 Warm White	80 … 89	0.440	0.403	3000	4450	4900
49 W	840 Cool White	80 … 89	0.380	0.380	4000	4450	4900
49 W	865 Cool Daylight	80 … 89	0.313	0.337	6500	4235	4600
54 W	830 Warm White	80 … 89	0.440	0.403	3000	4850	5000
54 W	840 Cool White	80 … 89	0.380	0.380	4000	4850	5000
54 W	865 Cool Daylight	80 … 89	0.313	0.337	6500	4610	4750
80 W	830 Warm White	80 … 89	0.440	0.403	3000	6800	7000
80 W	840 Cool White	80 … 89	0.380	0.380	4000	6800	7000
80 W	865 Cool Daylight	80 … 89	0.313	0.337	6500	6450	6650

[1] According to IEC 60081 (measurement with reference control gear)
[2] High Frequency

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

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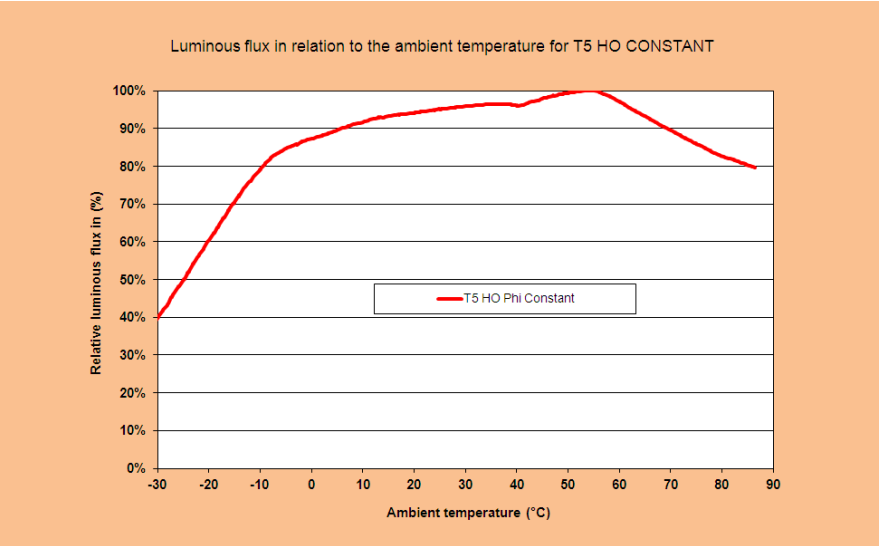
Relative Luminous Flux / Ambient Temperature



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

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Lifetime[4]

	ECG[5] (IEC 60929) preheat IEC 60081 switching cycle[6]
B50[7]	24,000 h
Service life time[8]	19,000 h
LLMF[9] 20.000 h	0.89
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
LSF[10] 20.000 h	0.85
LSF 16.000 h	0.97
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

[4] Measurement in accordance with EN 60081, annex C.
[5] Electronic Control Gear
[6] Switching cycle 165 min. on, 15 min. off (according to IEC 60081)
[7] 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.
[8] 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.
[9] 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
[10] Lamp Survival Factor (lamp survival in %): Ratio of the number of electrically intact lamps to the total number of lamps

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Energy labelling[11]

Description	Energy efficiency class	Weighted energy consumption E_C [kWh/1000h]
LUMILUX® T5 HO CONSTANT 24W/830	A+	25
LUMILUX® T5 HO CONSTANT 24W/840	A+	25
LUMILUX® T5 HO CONSTANT 24W/865	A+	25
LUMILUX® T5 HO CONSTANT 39W/830	A+	42
LUMILUX® T5 HO CONSTANT 39W/840	A+	42
LUMILUX® T5 HO CONSTANT 39W/865	A	42
LUMILUX® T5 HO CONSTANT 49W/830	A+	55
LUMILUX® T5 HO CONSTANT 49W/840	A+	55
LUMILUX® T5 HO CONSTANT 49W/865	A+	55
LUMILUX® T5 HO CONSTANT 54W/830	A+	60
LUMILUX® T5 HO CONSTANT 54W/840	A+	60
LUMILUX® T5 HO CONSTANT 54W/865	A	60
LUMILUX® T5 HO CONSTANT 80W/830	A+	88
LUMILUX® T5 HO CONSTANT 80W/840	A+	88
LUMILUX® T5 HO CONSTANT 80W/865	A+	88

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

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Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
LUMILUX® T5 HO CONSTANT 24W/830	4008321074911	4008321075420	20
LUMILUX® T5 HO CONSTANT 24W/840	4008321075451	4008321075468	20
LUMILUX® T5 HO CONSTANT 24W/865	4008321075475	4008321075482	20
LUMILUX® T5 HO CONSTANT 39W/830	4008321075512	4008321075529	20
LUMILUX® T5 HO CONSTANT 39W/840	4008321075550	4008321075567	20
LUMILUX® T5 HO CONSTANT 39W/865	4008321075574	4008321075581	20
LUMILUX® T5 HO CONSTANT 49W/830	4008321958761	4008321958730	20
LUMILUX® T5 HO CONSTANT 49W/840	4008321958778	4008321958747	20
LUMILUX® T5 HO CONSTANT 49W/865	4008321958785	4008321958754	20
LUMILUX® T5 HO CONSTANT 54W/830	4008321075611	4008321075628	20
LUMILUX® T5 HO CONSTANT 54W/840	4008321075659	4008321075666	20
LUMILUX® T5 HO CONSTANT 54W/865	4008321075673	4008321075680	20
LUMILUX® T5 HO CONSTANT 80W/830	4008321075819	4008321075826	20
LUMILUX® T5 HO CONSTANT 80W/840	4008321080042	4008321080059	20
LUMILUX® T5 HO CONSTANT 80W/865	4008321080066	4008321080073	20

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Lamp/ECG System combination

Lamp	ECG	EAN 10 ECG	Luminous Flux [lm] @25°C	System Power [W]	IN [A]	Power Factor ECG [λ]	System Luminous Efficacy [lm/W]	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T_a [°C]
LUMILUX® T5 HO CONSTANT 24 W	QTi DALI 1x14/24/220-240 DIM	4050300870380	1900	25.3	0.11	0.98	79	360	30	21	350	-20…+50
	QTi DALI 2x14/24/220-240 DIM	4050300870861	3800	49.3	0.22	0.98	77	423	30	21	415	+10…+50
	QTi DALI 3x14/24/220-240 DIM	4008321069955	5700	73.4	0.32	0.99	78	360	40	21	350	-20…+50
	QTi DALI 4x14/24/220-240 DIM	4008321070036	7600	97.6	0.43	0.99	78	360	40	21	350	+10…+50
	QTi 1x14/24/220-240 DIM	4050300870922	1900	26	0.11	0.98	79	360	30	21	350	+10…+50
	QTi 2x14/24/220-240 DIM	4050300870946	3800	50	0.22	0.96	76	423	30	21	415	+10…+50
	QTi 3x14/24/220-240 DIM	4008321069719	5700	74	0.32	0.99	77	360	40	21	350	+10…+50
	QTi 4x14/24/220-240 DIM	4008321069993	7600	98	0.43	0.99	78	360	40	21	350	+10…+50
	QTi 1x14/24/21/39 GII	4008321383334	1900	26	0.12	0.96	79	360	30	21	350	+10…+50
	QTi 2x14/24/21/39 GII	4008321383396	3800	50	0.23	0.96	76	360	30	21	350	+10…+50
	QTP5 1x24-39	4008321329110	1900	26	0.12	0.95	79	280	30	21	270	-20…+50
	QTP5 2x24-39	4008321329417	3800	49	0.23	0.95	78	360	30	21	350	-20…+50
	QTP-M 1x26-42	4008321329134	1900	25	0.12	0.95	79	103	67	31	110	-20…+50
	QTP-M 2x26-32	4008321329158	3800	49	0.23	0.97	78	123	79	33	129.5	-20…+50
	QT-M 2x26-42/220-240 S	4008321110022	3800	54	0.23	0.97	70	123	79	33	129.5	-20…+50
LUMILUX® T5 HO CONSTANT 39 W	QTi DALI 1x21/39/220-240 DIM	4050300870366	3400	41.8	0.19	0.98	81	360	30	21	350	-20…+50
	QTi DALI 2x21/39/220-240 DIM	4050300870489	6800	82	0.36	0.98	83	423	30	21	415	+10…+50
	QTi 1x21/39/220-240 DIM	4050300870564	3400	41.8	0.18	0.98	81	360	30	21	350	+10…+50
	QTi 2x21/39/220-240 DIM	4050300870694	6800	82	0.36	0.96	83	423	30	21	415	+10…+50
	QTi 1x14/24/21/39 GII	4008321383334	3300	41	0.18	0.98	80	360	30	21	350	-20…+50
	QTi 2x14/24/21/39 GII	4008321383396	6600	81	0.36	0.98	81	360	30	21	350	+10…+50
	QTP5 1x24-39	4008321329110	3300	41	0.18	0.98	80	280	30	21	270	-20…+50
	QTP5 2x24-39	4008321329417	6600	82	0.36	0.98	80	360	30	21	350	-20…+50

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	QTP-M 1x26-42	4008321329134	3300	41	0.18	0.97	80	103	67	31	110	-20…+50
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 CONSTANT 49 W	QTi DALI 1x35/49/80/220-240 DIM	4050300870809	4450	53.4	0.24	0.98	83	360	30	21	350	+10…+50
	QTi DALI 2x35/49/220-240 DIM	4050300870465	8900	103.6	0.45	0.99	86	423	30	21	415	+10…+50
	QTi DALI 2x35/49/80/220-240 DIM	4050300870441	8900	101	0.46	0.99	88	423	30	21	415	+10…+50
	QTi 1x35/49/80/220-240 DIM	4050300870540	4450	53.4	0.24	0.98	83	360	30	21	350	+10…+50
	QTi 2x35/49/80/220-240 DIM	4050300870984	8900	103	0.46	0.97	86	423	30	21	415	+10…+50
	QTi 2x35/49/220-240 DIM	4050300870670	8900	103.6	0.45	0.97	86	423	30	21	415	+10…+50
	QTi 1x28/54/35/49 GII	4008321383358	4450	53	0.24	0.97	84	360	30	21	350	-20…+50
	QTi 2x28/54/35/49 GII	4008321383419	8900	105	0.46	0.98	85	360	30	21	350	-20…+50
	QTi 1x35/49/80 GII	4008321383372	4450	53	0.24	0.97	84	360	30	21	350	-20…+50
	QTi 2x35/49/80/220-240	4008321174291	8900	104	0.46	0.97	86	425	30	21	415	-20…+50
	QTP5 1x49	4008321329370	4450	53	0.24	0.95	84	280	30	21	270	-20…+50
	QTP5 2x49	4008321329431	8900	106	0.49	0.99	84	360	30	21	350	-20…+50
LUMILUX® T5 HO CONSTANT 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	0.26	0.97	84	423	30	21	415	-20…+50
	QTi 1x28/54/220-240 DIM	4050300870588	4850	58.8	0.51	0.98	82	360	30	21	350	+10…+50
	QTi 2x28/54/220-240 DIM	4050300870717	9700	115	0.26	0.99	84	423	30	21	415	+10…+50
	QTi 1x28/54/35/49 GII	4008321383358	4850	58	0.51	0.98	84	360	30	21	350	-20…+50
	QTi 2x28/54/35/49 GII	4008321383419	9700	115	0.51	0.99	84	360	30	21	350	+10…+50
	QTP5 1x54	4008321329394	4850	59	0.26	0.98	82	280	30	21	270	-20…+50
	QTP5 2x54	4008321329097	9700	115	0.50	0.99	84	360	30	21	350	-20…+50

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Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	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 CONSTANT 80 W	QTi DALI 1x35/49/80/220-240 DIM	4050300870809	6800	88.1	0.76	0.98	77	360	30	21	350	-20…+50
	QTi DALI 2x35/49/80/220-240 DIM	4050300870441	13600	165	0.38	0.98	82	423	30	21	415	-20…+50
	QTi 1x35/49/80/220-240 DIM	4050300870540	6800	88.1	0.74	0.99	77	360	30	21	350	-20…+50
	QTi 2x35/49/80/220-240 DIM	4050300870984	13600	165	0.39	0.99	82	423	30	21	415	+10…+50
	QTi 1x35/49/80 GII	4008321383372	6800	85	0.39	0.99	80	360	30	21	350	+10…+50
	QTi 2x35/49/80/220-240	4008321174291	13600	165	0.74	0.99	82	425	30	21	415	+10…+50
	QTP5 1x80	4008321329059	6800	86	0.74	0.99	79	360	30	21	415	+10…+50
	QT-FQ 2x80	4050300825564	13600	175	0.38	0.98	78	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

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