

LUMILUX T5 FC

ARCHITECTURAL SOPHISTICATED, COMPACT,
HOMOGEN LIGHTING



LUMILUX® T5 FC®



QTP-M

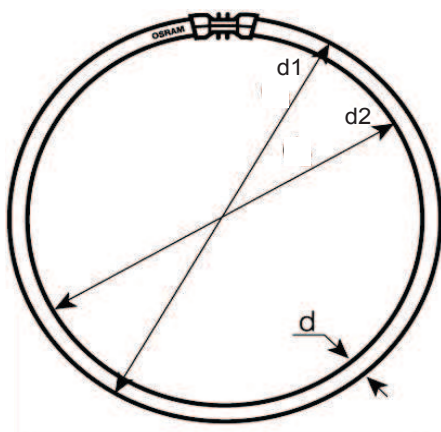
Benefits

- Very good uniform/area lighting without shadow
- Extremely economical
- High level of efficiency
- Very good luminous flux maintenance throughout the life of the lamp
- Good average life time (with OSRAM QUICKTRONIC®)
- Good color rendering R_a : 80...89
- Long service life time

Product Features

- Circular and single-capped fluorescent lamp with 16 mm diameter
- Ideal for flat, circular or square Recessed-/ Wall-/ Pendant-luminaires
- Available light colors: INTERNA (827), 830 Warm White, Cool White (840), Cool Daylight (865),
- Appropriate for compact and space saving lighting systems
- ECG operation
- Dimming (from 100...1% with QTI DALI/DIM)

Dimensions



Description	Base	Diameter (d1)	Diameter (d2)	Tube Diameter (d) [mm]
		[mm]	[mm]	
LUMILUX® T5 FC® 22 W	2 GX 13	225 +/-5	192 +/-5	16
LUMILUX® T5 FC® 40 W	2 GX 13	299 +/-6	266 +/-6	16
LUMILUX® T5 FC® 55 W	2 GX 13	299 +/-6	266 +/-6	16

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Electrical Data¹

Lamps operated with HF² reference control gear at 25 °C (100 h aged) ambient temperature

LUMILUX® T5 FC®	Lamp Voltage rated [V]	Lamp Current rated [mA]	Lamp Power rated [W]	Pre-heat current [mA]
22 W	75	300	22.3	440
40 W	126	320	39.9	440
55 W	101	550	55.0	765

Photometrical Data at 25 °C (100 h aged) ambient temperature³

LUMILUX® T5 FC®	Light Color LUMILUX®	Color Rendering Index (CRI), Ra	Luminance (LC ⁴ 840) [cd/cm ²]	Target Color Coordinate X	Target Color Coordinate Y	Nominal Luminous Flux [lm]	Efficacy 25 °C [lm/W]
22 W	827 INTERNA	80 ... 89	1.7	0.463	0.420	1800	77
	830 Warm White	80 ... 89	1.7	0.440	0.403	1800	77
	840 Cool White	80 ... 89	1.7	0.380	0.380	1800	77
	865 Cool Daylight	80 ... 89	1.7	0.313	0.337	1710	69
40 W	827 INTERNA	80 ... 89	2.1	0.463	0.420	3400	78
	830 Warm White	80 ... 89	2.1	0.440	0.403	3400	78
	840 Cool White	80 ... 89	2.1	0.380	0.380	3400	78
	865 Cool Daylight	80 ... 89	2.1	0.313	0.337	3300	70
55 W	827 INTERNA	80 ... 89	2.6	0.463	0.420	4200	75
	830 Warm White	80 ... 89	2.6	0.440	0.403	4200	75
	840 Cool White	80 ... 89	2.6	0.380	0.380	4200	75
	865 Cool Daylight	80 ... 89	2.6	0.313	0.337	3800	68

¹ According to IEC 60901

² High Frequency

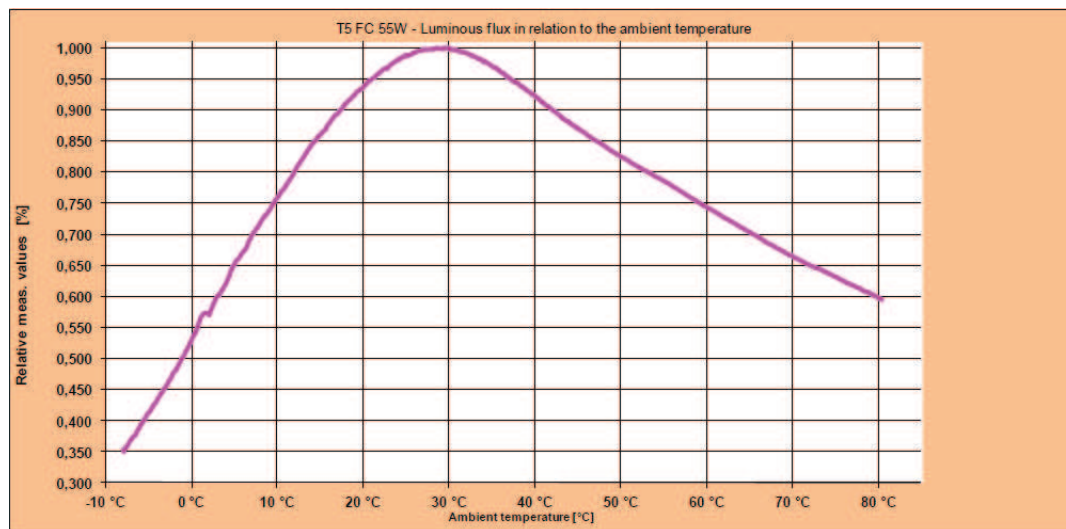
³ Measurement in accordance with IEC 60901, annex C and the relevant annex on rated colour characteristics in IEC 60081.

⁴ Light Color

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Relative Luminous Flux / Ambient Temperature



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

Lifetime⁵

	ECG ⁶ preheat IEC switching cycle ⁷
B50⁸	12000 h
Service life time⁹	8000 h
LLMF¹⁰ 2.000 h	0.85
LLMF 4000 h	0.83
LLMF 6000 h	0.82
LLMF 8000 h	0.80
LLMF 12000 h	0.75
LSF¹¹ 2000 h	0.99
LSF 4000 h	0.99
LSF 6000 h	0.98
LSF 8000 h	0.92
LSF 12000 h	0.50

⁵ Measurement in accordance with IEC 60901, annex C.

⁶ Electronic Control Gear

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

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

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Energy labelling¹²

Description	Energy efficiency class	Weighted energy consumption E _c [kWh/1000h]
LUMILUX® T5 FC® 22W/827	A	25
LUMILUX® T5 FC® 22W/830	A	25
LUMILUX® T5 FC® 22W/840	A	25
LUMILUX® T5 FC® 22W/865	A	25
LUMILUX® T5 FC® 40W/827	A+	44
LUMILUX® T5 FC® 40W/830	A+	44
LUMILUX® T5 FC® 40W/840	A+	44
LUMILUX® T5 FC® 40W/865	A	44
LUMILUX® T5 FC® 55W/827	A	61
LUMILUX® T5 FC® 55W/830	A	61
LUMILUX® T5 FC® 55W/840	A	61
LUMILUX® T5 FC® 55W/865	A	61

Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
LUMILUX® T5 FC® 22W/827	4050300646237	4050300646244	12
LUMILUX® T5 FC® 22W/830	4050300528489	4050300528496	12
LUMILUX® T5 FC® 22W/840	4050300528465	4050300528472	12
LUMILUX® T5 FC® 22W/865	4050300528441	4050300528458	12
LUMILUX® T5 FC® 40W/827	4050300646251	4050300646268	12
LUMILUX® T5 FC® 40W/830	4050300528540	4050300528557	12
LUMILUX® T5 FC® 40W/840	4050300528526	4050300528533	12
LUMILUX® T5 FC® 40W/865	4050300528502	4050300528519	12
LUMILUX® T5 FC® 55W/827	4050300646275	4050300646282	12
LUMILUX® T5 FC® 55W/830	4050300528601	4050300528618	12
LUMILUX® T5 FC® 55W/840	4050300528588	4050300528595	12
LUMILUX® T5 FC® 55W/865	4050300528564	4050300528571	12

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

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Lamp/ECG System Combination

Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	System Power [W]	I _N [A]	Power Factor ECG	System Luminous Efficacy [lm/W]	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T _a [°C]
	QTI DALI 1x14/24/220-240 DIM	4050300870380	1750	25	0.11	0.98	70	360.00	30.00	21.00	350	+10...+50 °C
	QTI DALI 2x14/24/220-240 DIM	4050300870861	3500	49	0.22	0.98	71	423.00	30-00	21.00	415	+10...+50 °C
	QTI DALI 3x14/24/220-240 DIM	4008321069955	5250	73	0.32	0.99	72	360.00	40.00	21.00	350	+10...+50 °C
	QTI DALI 4x14/24/220-240 DIM	4008321070036	7000	98	0.43	0.99	71	360.00	40.00	21.00	350	+10...+50 °C
	QTI DALI-T/E 1x18-57 DIM	4008321060808	1800	26	0.12	0.96	69	123.00	79.00	33.00	129.5	+10...+50 °C
	QTI DALI-T/E 2x18-42 DIM	4008321060822	3600	51	0.22	0.97	71	123.00	79.00	33.00	129.5	+10...+50 °C
	QTI 1x14/24/220-240 DIM	4050300870922	1750	25	0.11	0.98	70	360.00	30.00	21.00	350	+10...+50 °C
	QTI 2x14/24/220-240 DIM	4050300870861	3500	49	0.22	0.98	71	423.00	30.00	21.00	415	+10...+50 °C
	QTI 3x14/24/220-240 DIM	4008321069719	5250	73	0.32	0.99	72	360.00	40.00	21.00	350	+10...+50 °C
	QTI 4x14/24/220-240 DIM	4008321069993	7000	98	0.43	0.99	71	360.00	40.00	21.00	350	+10...+50 °C
	QTI 1x14/24/21/39 GII	4008321383334	1800	25	0.15	0.94	72	360.00	30.00	21.00	350	-20...+50 °C
	QTI 2x14/24/21/39 GII	4008321383396	3600	49	0.21	0.96	73	360.00	30.00	21.00	350	-20...+50 °C
	QTI-T/E 1x18-57 DIM	4008321060860	1750	26	0.12	0.96	67	123.00	79.00	33.00	129.5	+10...+50 °C
	QTI-T/E 2x18-42 DIM	4008321060846	3500	51	0.22	0.97	69	123.00	79.00	33.00	129.5	+10...+50 °C
	QTP-M 1x26-42	4008321329134	1800	25	0.12	0.94 c	72	103.00	76.00	31.00	110	-20...+50 °C
	QTP-M 2x26-32	4008321329158	3600	49	0.22	0.97	73	123.00	79.00	33.00	129.5	-20...+50 °C
	QT-M 2x26-42/220-240 S	4008321100222	6400	70	0.36	0.97	143	123.00	79.00	33.00	129.5	-20...+50 °C
	QT-M 2x26-42/220-240 S	4008321100222	6400	54	0.36	0.97	119	123.00	79.00	33.00	129.5	-20...+50 °C
	QT-ECO 1x18-24/220-240 L	4050300660417	1650	22.5	0.16	0.60	73	150.00	22.00	22.00	140	-15...+50 °C
	QT-ECO 1x18-24/220-240 S	4050300638560	1650	22.5	0.16	0.60	73	80.00	40.00	22.00	72...75	-15...+50 °C

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T5 FC®
22 W

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Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	System Power [W]	I _N [A]	Power Factor ECG	System Luminous Efficacy [lm/W]	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T _a [°C]
LUMILUX® T5 FC® 40 W	QTi DALI-T/E 1x18-57 DIM	4008321060808	3200	45	0.2	0.98	71	123.00	79.00	33.00	129.5	+10...+50 °C
	QTi DALI-T/E 2x18-42 DIM	4008321060822	6400	87	0.38	0.99	74	123.00	79.00	33.00	129.5	+10...+50 °C
	QTi-T/E 1x18-57 DIM	4008321060860	3200	45	0.2	0.98	71	123.00	79.00	33.00	129.5	+10...+50 °C
	QTi-T/E 2x18-42 DIM	4008321060846	6400	87	0.38	0.99	74	123.00	79.00	33.00	129.5	+10...+50 °C
	QTi DALI 1x21/39/220-240 DIM	4050300870366	3100	42	0.18	0.98	74	360.00	30.00	21.00	350	+10...+50 °C
	QTi DALI 2x21/39/220-240 DIM	4050300870489	6200	82	0.36	0.98	76	425.00	30.00	21.00	415	+10...+50 °C
	QTi 1x21/39/220-240 DIM	4050300870564	3100	42	0.18	0.98	74	360.00	30.00	21.00	350	+10...+50 °C
	QTi 2x21/39/220-240 DIM	4050300870694	6200	82	0.36	0.98	76	423.00	30.00	21.00	415	+10...+50 °C
	QTP-M 1x26-42	4008321329134	3200	43	0.19	0.97	74	103.00	67.00	31.00	110	-20...+50 °C
	QT-M 2x26-42/220-240 S	4008321110022	6400	88	0.36	0.97	73	123.00	79.00	33.00	129.5	-20...+50 °C
LUMILUX® T5 FC® 55 W	QTi 1x14/24/21/39 GII	4008321110022	3200	43	0.19	0.96	74	123.00	79.00	33.00	129.5	-20...+50 °C
	QTi 2x14/24/21/39 GII	4008321383396	6400	88	0.36	0.99	73	360.00	30.00	21.00	350	-20...+50 °C
	QTi DALI 1x28/54/220-240 DIM	4050300870809	4450	59	0.26	0.99	75	360.00	30.00	21.00	350	+10...+50 °C
	QTi DALI 2x28/54/220-240 DIM	4050300870502	8900	115	0.51	0.99	77	423.00	30.00	21.00	415	+10...+50 °C
	QTi 1x28/54/220-240 DIM	4050300870588	4450	59	0.26	0.99	75	360.00	30.00	21.00	350	+10...+50 °C
	QTi 2x28/54/220-240 DIM	4050300870717	8900	115	0.51	0.99	77	423.00	30.00	21.00	415	+10...+50 °C
	QTP-FC 1x55	4008321537041	4000	60	0.26	0.99	67	103.00	67.00	31.00	350	-20...+50 °C
	QTi 1x35/49/80 GII	4008321383372	4200	59	0.26	0.99	71	360.00	30.00	21.00	350	-20...+50 °C

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

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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