

LUMILUX T5 FC

ARCHITECTURAL SOPHISTICATED,
HOMOGEN LIGHTING



LUMILUX® T5 FC®



QTP-M

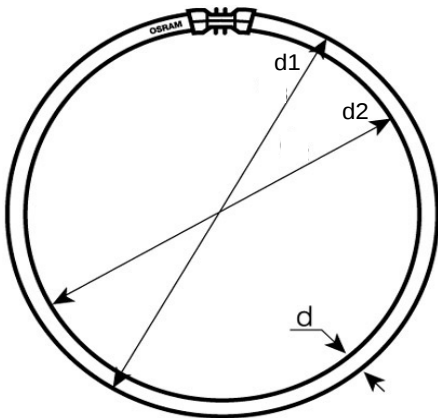
Benefits

- 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 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) [mm]	Diameter (d2) [mm]	Tube Diameter (d) [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

Electrical Data¹

Lamps operated with **HF**² 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/cm²]	Target Color Coordinate X	Target Color Coordinate Y	Nominal Luminous Flux [lm]	Efficacy 25 °C [lm/W]	Energy Efficiency Class
22 W	827 INTERNA	80 ... 89	1.7	0.463	0.420	1800	77	A
	830 Warm White	80 ... 89	1.7	0.440	0.403	1800	77	A
	840 Cool White	80 ... 89	1.7	0.380	0.380	1800	77	A
	865 Cool Daylight	80 ... 89	1.7	0.313	0.337	1710	69	A
40 W	827 INTERNA	80 ... 89	2.1	0.463	0.420	3400	78	A
	830 Warm White	80 ... 89	2.1	0.440	0.403	3400	78	A
	840 Cool White	80 ... 89	2.1	0.380	0.380	3400	78	A
	865 Cool Daylight	80 ... 89	2.1	0.313	0.337	3300	70	A
55 W	827 INTERNA	80 ... 89	2.6	0.463	0.420	4200	75	B
	830 Warm White	80 ... 89	2.6	0.440	0.403	4200	75	B
	840 Cool White	80 ... 89	2.6	0.380	0.380	4200	75	B
	865 Cool Daylight	80 ... 89	2.6	0.313	0.337	3800	68	B

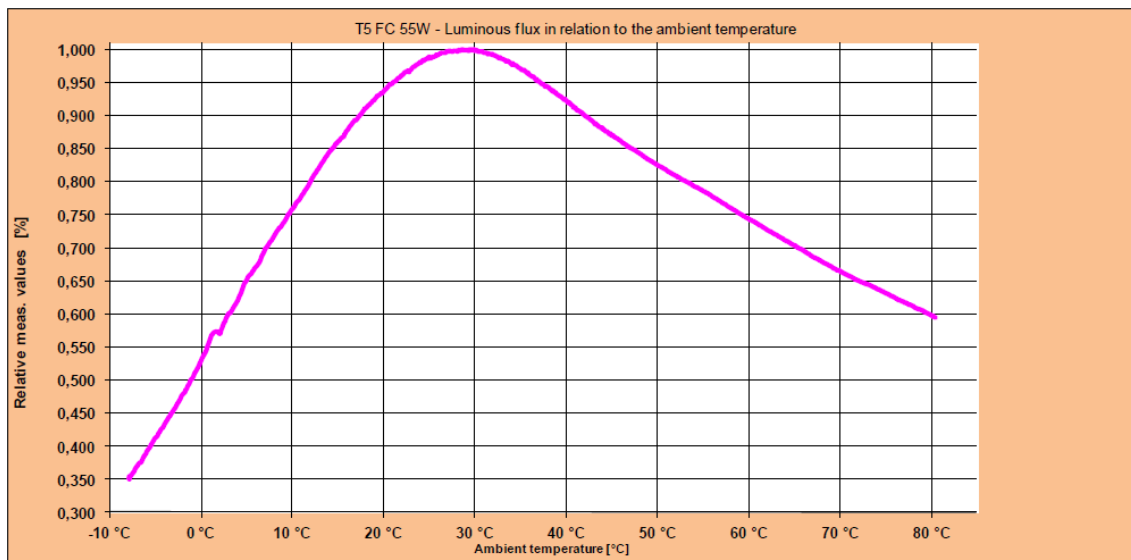
¹ According to IEC 60901

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

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

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

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]
LUMILUX® T5 FC® 22 W	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	4008321110022	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	4008321110022	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

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
	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
LUMILUX® T5 FC® 55 W	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