

LUMILUX[®] T5 HE

Good light output, efficiency and economy



LUMILUX[®] T5 HE



QTi DALI/DIM / QTi GII / QTP5



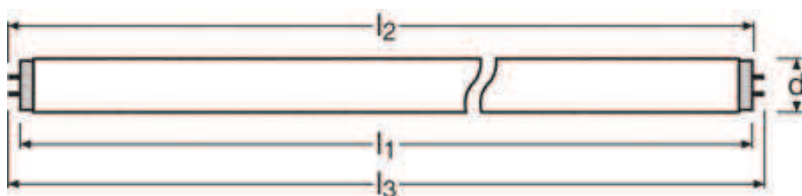
Benefits

- Good economy and efficiency
- Up to 20% more efficient than Standard T8
- Minimum luminaire dimensions, with the same light output as T8 luminaires but up to 50 % smaller
- Natural color indication

Product Features

- Up to 104 lm/W
- Long average life time: up to 24,000 h (with QUICKTRONIC®)
- Good color Rendering Group 1B (Ra 80-89)
- Dimmable with appropriate ECG
- Available light colors: Cool Daylight (865), Cool White (840), White (835), Warm White (830), INTERNA (827)

Dimensions



Description	Base	Length (l1) [mm]	Length (l2) min [mm]	Length (l2) max [mm]	Length (l3) [mm]	Tube Diameter (d) max [mm]
LUMILUX® T5 HE 14 W	G5	549	553.7	556.1	563.2	17
LUMILUX® T5 HE 21 W	G5	849	853.7	856.1	863.2	17
LUMILUX® T5 HE 28 W	G5	1149	1153.7	1156.1	1163.2	17
LUMILUX® T5 HE 35 W	G5	1449	1453.7	1456.1	1463.2	17

Electrical Data¹

LUMILUX® T5 HE	Lamp Voltage in HF ² mode rated [V]	Lamp Current in HF mode rated [mA]	Pre-heat current rated [mA]
14 W	86	165	210
21 W	126	165	210
28 W	166	170	210
35 W	205	175	210

¹ According to IEC 60081 (measurement with reference control gear)

² High Frequency

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

LP LPD MK

Photometrical Data³

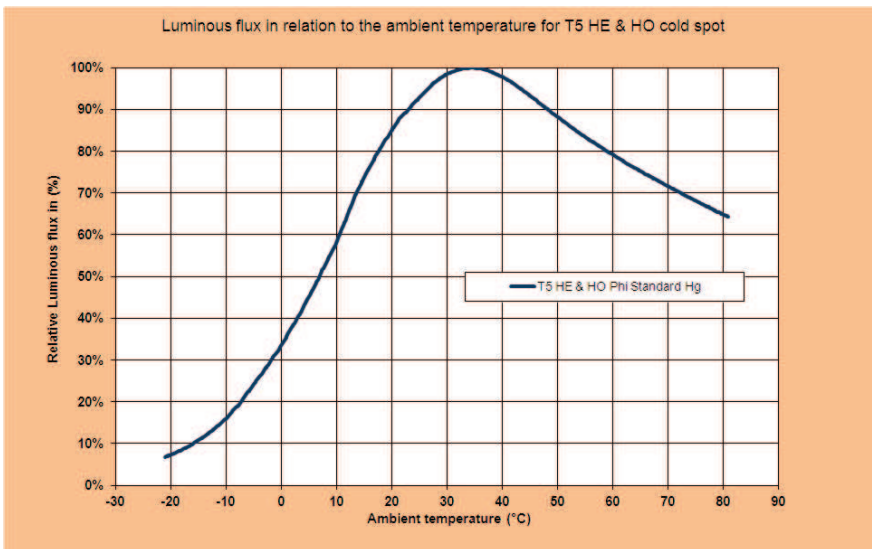
LUMILUX® T5 HE	Light Color LUMILUX®	Color Rendering Index (CRI), Ra	Target Color Coordinate X	Target Color Coordinate Y	Color Temperature [K]	Nominal Luminous Flux [lm]	Max. Luminous Flux [lm]
14 W	827 INTERNA	80 ... 89	0.463	0.420	2700	1200	1350
14 W	830 Warm White	80 ... 89	0.440	0.403	3000	1200	1350
14 W	835 White	80 ... 89	0.409	0.394	3500	1200	1350
14 W	840 Cool White	80 ... 89	0.380	0.380	4000	1200	1350
14 W	865 Cool Daylight	80 ... 89	0.313	0.337	6500	1100	1300
14 W	880 SKYWHITE	80 ... 89	0.294	0.309	8000	1080	1150
21 W	827 INTERNA	80 ... 89	0.463	0.420	2700	1900	2100
21 W	830 Warm White	80 ... 89	0.440	0.403	3000	1900	2100
21 W	835 White	80 ... 89	0.409	0.394	3500	1900	2100
21 W	840 Cool White	80 ... 89	0.380	0.380	4000	1900	2100
21 W	865 Cool Daylight	80 ... 89	0.313	0.337	6500	1750	2000
21 W	880 SKYWHITE	80 ... 89	0.294	0.309	8000	1700	1850
28 W	827 INTERNA	80 ... 89	0.463	0.420	2700	2600	2900
28 W	830 Warm White	80 ... 89	0.440	0.403	3000	2600	2900
28 W	835 White	80 ... 89	0.409	0.394	3500	2600	2900
28 W	840 Cool White	80 ... 89	0.380	0.380	4000	2600	2900
28 W	865 Cool Daylight	80 ... 89	0.313	0.337	6500	2400	2750
28 W	880 SKYWHITE	80 ... 89	0.294	0.309	8000	2350	2690
35 W	827 INTERNA	80 ... 89	0.463	0.420	2700	3320	3650
35 W	830 Warm White	80 ... 89	0.440	0.403	3000	3320	3650
35 W	835 White	80 ... 89	0.409	0.394	3500	3320	3650
35 W	840 Cool White	80 ... 89	0.380	0.380	4000	3320	3650
35 W	865 Cool Daylight	80 ... 89	0.313	0.337	6500	3050	3500
35 W	880 SKYWHITE	80 ... 89	0.294	0.309	8800	3000	3450

³ 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 MK

Relative Luminous Flux / Ambient Temperature



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

Lifetime⁴

	ECG ⁵ (IEC 60929) preheat IEC 60081 switching cycle ⁶
B50⁷	24,000 h
Service life time⁸	19,000 h
LLMF⁹ 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
LSF¹⁰ 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)

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

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

LP LPD MK

Energy labelling¹¹

Description	Energy efficiency class	Weighted energy consumption E _c [kWh/1000h]
LUMILUX® T5 HE 14W/827	A+	16
LUMILUX® T5 HE 14W/830	A+	16
LUMILUX® T5 HE 14W/835	A+	16
LUMILUX® T5 HE 14W/840	A+	16
LUMILUX® T5 HE 14W/865	A+	16
LUMILUX® T5 HE 14W/880	A+	16
LUMILUX® T5 HE 21W/827	A+	23
LUMILUX® T5 HE 21W/830	A+	23
LUMILUX® T5 HE 21W/835	A+	23
LUMILUX® T5 HE 21W/840	A+	23
LUMILUX® T5 HE 21W/865	A+	23
LUMILUX® T5 HE 21W/880	A+	23
LUMILUX® T5 HE 28W/827	A+	31
LUMILUX® T5 HE 28W/830	A+	31
LUMILUX® T5 HE 28W/835	A+	31
LUMILUX® T5 HE 28W/840	A+	31
LUMILUX® T5 HE 28W/865	A+	31
LUMILUX® T5 HE 28W/880	A+	31
LUMILUX® T5 HE 35W/827	A+	40
LUMILUX® T5 HE 35W/830	A+	40
LUMILUX® T5 HE 35W/835	A+	40
LUMILUX® T5 HE 35W/840	A+	40
LUMILUX® T5 HE 35W/865	A+	40
LUMILUX® T5 HE 35W/880	A+	40

¹¹ 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 MK

Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
LUMILUX® T5 HE 14W/827	4050300645933	4050300645940	40
LUMILUX® T5 HE 14W/830	4050300464824	4050300464831	40
LUMILUX® T5 HE 14W/835	4050300771991	4050300772004	20
LUMILUX® T5 HE 14W/840	4050300464688	4050300464695	40
LUMILUX® T5 HE 14W/865	4050300464848	4050300464855	40
LUMILUX® T5 HE 14W/880	4008321225009	4008321225016	20
LUMILUX® T5 HE 21W/827	4050300645971	4050300645988	40
LUMILUX® T5 HE 21W/830	4050300464800	4050300464817	40
LUMILUX® T5 HE 21W/835	4050300776149	4050300776156	20
LUMILUX® T5 HE 21W/840	4050300464701	4050300464718	40
LUMILUX® T5 HE 21W/865	4050300464626	4050300464633	40
LUMILUX® T5 HE 21W/880	4008321224989	4008321224996	20
LUMILUX® T5 HE 28W/827	4050300646015	4050300646022	40
LUMILUX® T5 HE 28W/830	4050300464787	4050300464794	40
LUMILUX® T5 HE 28W/835	4050300776552	4050300776569	40
LUMILUX® T5 HE 28W/840	4050300464725	4050300464732	40
LUMILUX® T5 HE 28W/865	4050300464640	4050300464657	40
LUMILUX® T5 HE 28W/880	4008321153517	4008321153524	20
LUMILUX® T5 HE 35W/827	4050300646053	4050300646060	40
LUMILUX® T5 HE 35W/830	4050300464763	4050300464770	40
LUMILUX® T5 HE 35W/835	4050300776415	4050300776422	20
LUMILUX® T5 HE 35W/840	4050300464749	4050300464756	40
LUMILUX® T5 HE 35W/865	4050300464664	4050300464671	40
LUMILUX® T5 HE 35W/880	4008321153531	4008321153548	20

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

LP LPD MK

Lamp/ECG System Combination

Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	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 HE 14 W	QTi DALI 1x14/24/220-240 DIM	4050300870380	1200	15.4	0.07	0.95	78	360	30	21	350	+10...+50
	QTi DALI 2x14/24/220-240 DIM	4050300870861	2400	30.6	0.14	0.95	78	423	30	21	415	+10...+50
	QTi DALI 3x14/24/220-240 DIM	4008321069955	3600	45.3	0.20	0.97	79	360	40	21	350	+10...+50
	QTi DALI 4x14/24/220-240 DIM	4008321070036	4800	60.4	0.27	0.97	79	360	40	21	350	+10...+50
	QTi 1x14/24/220-240 DIM	4050300870922	1200	15.4	0.07	0.96	78	360	30	21	350	+10...+50
	QTi 2x14/24/220-240 DIM	4050300870946	2400	30.6	0.14	0.96	78	423	30	21	415	+10...+50
	QTi 3x14/24/220-240 DIM	4008321069719	3600	45.3	0.20	0.97	79	360	40	21	350	+10...+50
	QTi 4x14/24/220-240 DIM	4008321069993	4800	60.4	0.27	0.97	79	360	40	21	350	+10...+50
	QTi 1x14/24/21/39 GII	4008321383334	1200	16	0.08	0.92 c	78	360	30	21	350	-20...+50
	QTi 2x14/24/21/39 GII	4008321383396	2400	31	0.15	0.95	77	360	30	21	350	-20...+50
	QTi 1x28/54/35/49 GII	4008321383358	1275	16	0.08	0.93 c	80	360	30	21	350	-20...+50
	QTi 2x28/54/35/49 GII	4008321383419	2550	32	0.15	0.93 c	80	360	30	21	350	-20...+50
	QTi 1x35/49/80 GII	4008321383372	1275	16	0.08	0.93 c	80	360	30	21	350	-20...+50
	QTP5 1x14-35	4008321329035	1200	16	0.08	0.90 c	78	280	30	21	270	-20...+50
	QTP5 2x14-35	4008321329073	2400	30	0.14	0.98	80	360	30	21	350	-20...+50
	QT-ECO 1x4-16/220-240 L	4050300660370	1150	15	0.10	0.60 c	77	150	22	22	140	-15...+50
	QT-ECO 1x4-16/220-240 S	4050300638584	1150	15	0.10	0.60 c	77	80	40	22	72-75	-15...+50

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

Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	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 HE 21 W	QTi DALI 1x21/39/220-240 DIM	4050300870366	1900	23.1	0.11	0.95	82	360	30	21	350	+10...+50
	QTi DALI 2x21/39/220-240 DIM	4050300870489	3800	45	0.21	0.95	84	423	30	21	415	+10...+50
	QTi 1x21/39/220-240 DIM	4050300870564	1900	23.1	0.11	0.96	82	360	30	21	350	+10...+50
	QTi 2x21/39/220-240 DIM	4050300870694	3800	45	0.21	0.96	84	423	30	21	415	+10...+50
	QTi 1x14/24/21/39 GII	4008321383334	1900	24	0.11	0.94 c	79	360	30	21	350	-20...+50
	QTi 2x14/24/21/39 GII	4008321383396	3800	45	0.20	0.96	84	360	30	21	350	-20...+50
	QTi 1x28/54/35/49 GII	4008321383358	1900	24	0.11	0.94 c	79	360	30	21	350	-20...+50
	QTi 2x28/54/35/49 GII	4008321383419	3800	45	0.20	0.96	84	360	30	21	350	-20...+50
	QTi 1x35/49/80 GII	4008321383372	1900	25	0.11	0.99	76	360	30	21	350	-20...+50
	QTP5 1x14-35	4008321329035	1900	24	0.11	0.95	79	280	30	21	270	-20...+50
	QTP5 2x14-35	4008321329073	3800	45	0.20	0.98	84	360	30	21	350	-20...+50
	QT-ECO 1x18-21/220-240 S	4050300794907	1800	23	0.17	0.60 c	78	80	40	22	72-75	-15...+50
LUMILUX® T5 HE 28 W	QTi DALI 1x28/54/220-240 DIM	4050300870809	2600	30.1	0.14	0.97	86	360	30	21	350	+10...+50
	QTi DALI 2x28/54/220-240 DIM	4050300870502	5200	60.2	0.27	0.97	86	423	30	21	415	+10...+50
	QTi 1x28/54/220-240 DIM	4050300870588	2600	30.1	0.14	0.97	86	360	30	21	350	+10...+50
	QTi 2x28/54/220-240 DIM	4050300870717	5200	60.2	0.27	0.27	86	423	30	21	415	+10...+50
	QTi 1x14/24/21/39 GII	4008321383334	2700	33	0.15	0.99	82	360	30	21	350	-20...+50
	QTi 2x14/24/21/39 GII	4008321383396	5300	63	0.29	0.99	84	360	30	21	350	-20...+50
	QTi 1x28/54/35/49 GII	4008321383358	2600	32	0.15	0.95	81	360	30	21	350	-20...+50
	QTi 2x28/54/35/49 GII	4008321383419	5200	61	0.28	0.96	85	360	30	21	350	-20...+50
	QTi 1x35/49/80 GII	4008321383372	2700	33	0.15	0.99	82	360	30	21	350	-20...+50
	QTP5 1x14-35	4008321329035	2600	31	0.14	0.96	84	280	30	21	270	-20...+50
	QTP5 2x14-35	4008321329073	5200	60	0.26	0.98	87	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 MK

Lamp	ECG	EAN 10 ECG	Lumino us Flux @25°C [lm]	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 HE 35 W	QTi DALI 1x35/49/80/220-240 DIM	4050300870342	3300	37.8	0.17	0.95	87	360	30	21	350	+10...+50
	QTi DALI 2x35/49/220-240 DIM	4050300870465	6600	74.5	0.33	0.98	89	423	30	21	415	+10...+50
	QTi DALI 2x35/49/80/220-240 DIM	4050300870441	6600	74	0.34	0.98	89	423	30	21	415	+10...+50
	QTi 1x35/49/80/220-240 DIM	4050300870540	3300	37.8	0.17	0.96	87	360	30	21	350	+10...+50
	QTi 2x35/49/80/220-240 DIM	4050300870984	6600	74	0.34	0.95	89	423	30	21	415	+10...+50
	QTi 2x35/49/220-240 DIM	4050300870670	6600	74.5	0.33	0.95	89	423	30	21	415	+10...+50
	QTi 1x14/24/21/39 GII	4008321383334	3300	39	0.18	0.97	85	360	30	21	350	-20...+50
	QTi 2x14/24/21/39 GII	4008321383396	6600	76	0.35	0.96	87	360	30	21	350	-20...+50
	QTi 1x28/54/35/49 GII	4008321383358	3300	38	0.17	0.97	87	360	30	21	350	-20...+50
	QTi 2x28/54/35/49 GII	4008321383419	6600	76	0.35	0.96	87	360	30	21	350	-20...+50
	QTi 1x35/49/80 GII	4008321383372	3300	38	0.17	0.97	87	360	30	21	350	-20...+50
	QTi 2x35/49/80/220-240	4008321174291	6600	79	0.34	0.95	84	425	30	21	415	-20...+50
	QTP5 1x14-35	4008321329035	3300	38	0.17	0.97	87	280	30	21	270	-20...+50
	QTP5 2x14-35	4008321329073	6600	75	0.33	0.98	88	360	30	21	350	-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