

# LUMILUX<sup>®</sup> DE LUXE T8

OSRAM LUMILUX<sup>®</sup> DE LUXE lamps meet high demands in terms of color rendering

Ideal for all applications in which color rendering plays an important role



LUMILUX<sup>®</sup> T8 DE LUXE

QT-FIT8 2X58-70/220-240 VS20

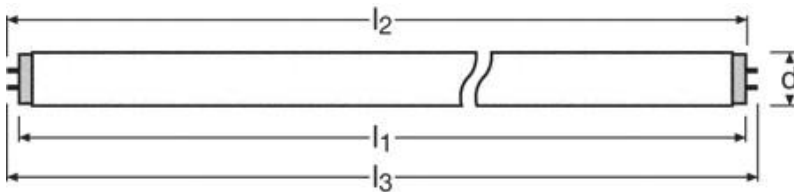
## Benefits

- Excellent color rendering
- Natural colors
- Available in many different light colors (3000 K to 6500 K) for every application and preference

## Product Features

- Fluorescent lamp with 26 mm diameter
- Very good color rendering index 1A (Ra >90)
- Long service life: up to 16,000 h (preheat ECG)
- Dimmable
- High luminous flux

## Dimensions



Description	Base	Length (l1) [mm]	Length (l2) min [mm]	Length (l2) max [mm]	Length (l3) [mm]	Tube Diameter (d) max [mm]
LUMILUX DE LUXE T8 15 W	G13	437.4	432.1	434.5	451.6	26
LUMILUX DE LUXE T8 16 W	G13	720	724.7	727.1	734.2	26
LUMILUX DE LUXE T8 18 W	G13	589.8	594.5	596.9	604	26
LUMILUX DE LUXE T8 30 W	G13	894.6	899.3	901.7	908.8	26
LUMILUX DE LUXE T8 36 W	G13	1199.4	1204.1	1206.5	1213.6	26
LUMILUX DE LUXE T8 36 W - 1	G13	970	974.7	977.1	984.2	26
LUMILUX DE LUXE T8 58 W	G13	1500	1504.7	1507.1	1514.2	26

## Electrical Data<sup>1</sup>

Lamps operated with **50Hz** reference ballast at **25 °C (100h aged)** ambient temperature

LUMILUX T8 DE LUXE	Lamp Voltage [V]	Lamp Current rated [mA]	Pre-heat current [mA]
15 W	55	310	440
16 W	u.c	u.c	260
18 W	57	370	550
30 W	96	365	550
36 W	103	430	650
36 W - 1	81	556	730
58 W	110	670	1000

## Photometrical Data at 25 °C (100 h aged) ambient temperature<sup>2</sup>

LUMILUX T8 DE LUXE	Light Color LUMILUX	Color Rendering Index (CRI), Ra	Target Color Coordinate <sup>1</sup> x	Target Color Coordinate <sup>1</sup> y	Color Temperature [K]	Nominal Luminous Flux 25°C [lm] <sup>1</sup>	Max. Luminous Flux 25°C [lm] <sup>1</sup>	Efficacy [lm/W] <sup>1</sup>	Energy Efficiency Class
15 W	954 Daylight	90 ... 99	0.335	0.35	750	750	5400	50	B
16 W	930 Warm White	90 ... 99	0.440	0.403	950	950	3000	59	B
18 W	930 Warm White	90 ... 99	0.440	0.403	1100	1100	3000	61	B
18 W	940 Cool White	90 ... 99	0.380	0.380	1200	1200	4000	67	B
18 W	954 Daylight	90 ... 99	0.335	0.35	1150	1150	5400	64	B
18 W	965 Cool Daylight	90 ... 99	0.313	0.337	1150	1150	6500	64	B
30 W	930 Warm White	90 ... 99	0.440	0.403	1920	1920	3000	65	B
36 W	930 Warm White	90 ... 99	0.440	0.403	2700	2700	3000	75	B
36 W	940 Cool White	90 ... 99	0.380	0.380	2900	2900	4000	81	B
36 W	954 Daylight	90 ... 99	0.335	0.35	2850	2850	5400	79	B
36 W - 1	954 Daylight	90 ... 99	0.335	0.35	2600	2600	5400	72	B
36 W	965 Cool Daylight	90 ... 99	0.313	0.337	2850	2850	6500	79	B
58 W	930 Warm White	90 ... 99	0.440	0.403	4350	4350	3000	75	B
58 W	940 Cool White	90 ... 99	0.380	0.380	4600	4600	4000	79	B
58 W	954 Daylight	90 ... 99	0.335	0.35	4550	4550	5400	77	B
58 W	965 Cool Daylight	90 ... 99	0.313	0.337	4550	4550	6500	77	B

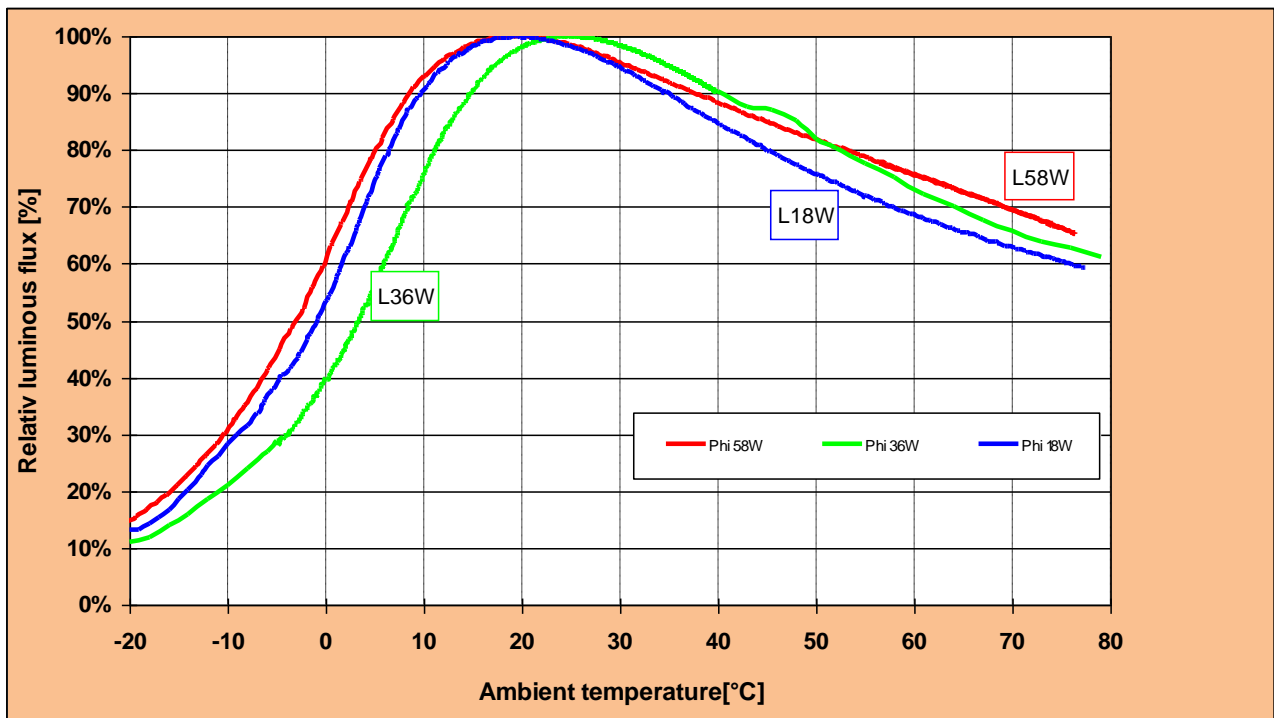
<sup>1</sup> According to IEC/EN 60081

<sup>2</sup> Measurement in accordance with IEC/EN 60081 annex C

Edition 01.2013. 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 – Compact Fluorescent Lamps / Fluorescent Lamps. Free download at [www.osram.com](http://www.osram.com)

## Lifetime<sup>3</sup>

	ECG <sup>4</sup> preheated IEC switching cycle <sup>5</sup>	CCG IEC switching cycle
<b>B50<sup>6</sup></b>	20,000 h	15,000 h
<b>Service Lifetime<sup>7</sup></b>	16,000 h	12,000 h
<b>LLMF<sup>8</sup> 2000 h</b>	u.c.*	0.92
<b>LLMF 4000 h</b>	u.c.	0.90
<b>LLMF 6000 h</b>	u.c.	0.88
<b>LLMF 8000 h</b>	u.c.	0.86
<b>LLMF 12000 h</b>	u.c.	0.85
<b>LLMF 16000 h</b>	u.c.	-
<b>LSF<sup>9</sup> 2000 h</b>	u.c.	0.99
<b>LSF 4000 h</b>	u.c.	0.99
<b>LSF 6000 h</b>	u.c.	0.99
<b>LSF 8000 h</b>	u.c.	0.99
<b>LSF 12000 h</b>	u.c.	0.90
<b>LSF 16000 h</b>	u.c.	-

\*u.c. = under consideration

<sup>3</sup> Measurement in accordance with IEC/EN 60081

<sup>4</sup> Electronic Control Gear

<sup>5</sup> Switching cycle 165 min. on, 15 min. off (according to IEC)

<sup>6</sup> 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.

<sup>7</sup> 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

<sup>8</sup> 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

<sup>9</sup> 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 DE LUXE T8 15W/930	4050300014395	4050300242354	25
LUMILUX DE LUXE T8 15W/954	4050300018249	4050300249353	25
LUMILUX DE LUXE T8 16W/930	4050300242361	4050300242378	25
LUMILUX DE LUXE T8 18W/930	4050300011264	4050300236452	25
LUMILUX DE LUXE T8 18W/940	4050300011257	4050300236445	25
LUMILUX DE LUXE T8 18W/954	4050300018256	4050300246765	25
LUMILUX DE LUXE T8 18W/965	4008321111371	4008321111388	25
LUMILUX DE LUXE T8 30W/930	4050300014432	4050300242385	25
LUMILUX DE LUXE T8 36W/930	4050300011318	4050300236476	25
LUMILUX DE LUXE T8 36W/940	4050300011301	4050300236469	25
LUMILUX DE LUXE T8 36W/954	4050300018263	4050300246796	25
LUMILUX DE LUXE T8 36W/954 – 1	4050300024196	4050300249360	25
LUMILUX DE LUXE T8 36W/965	4008321111395	4008321111401	25
LUMILUX DE LUXE T8 58W/930	4050300011363	4050300236490	25
LUMILUX DE LUXE T8 58W/940	4050300011356	4050300236483	25
LUMILUX DE LUXE T8 58W/954	4050300018270	4050300246826	25
LUMILUX DE LUXE T8 58W/965	4008321090034	4008321090041	25

## Lamp/ECG System Combination

Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	System Power [W]	I <sub>N</sub> [A]	Power Factor ECG	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T <sub>a</sub> [°C]
<b>LUMILUX DE LUXE T8 15 W<sup>10</sup></b>	QTi DALI 1x18/220-240 DIM	4050300870403	750	19	0.08	0.97	360.00	30.00	21.00	350	+15...+50 °C
	QTi DALI 2x18/220-240 DIM	4050300870526	1500	37	0.16	0.97	425.00	30.00	21.00	415	+15...+50 °C
	QTi DALI 3x18/220-240 DIM	4008321069979	2250	53.6	0.24	0.98	360.00	40.00	21.00	350	+15...+50 °C
	QTi DALI 4x18/220-240 DIM	4008321070050	3000	69.3	0.31	0.98	360.00	40.00	21.00	350	+15...+50 °C
	QTi 1x18/220-240 DIM	4050300870601	750	19	0.08	0.97	360.00	30.00	21.00	350	+15...+50 °C
	QTi 2x18/220-240 DIM	4050300870960	1500	37	0.16	0.97	425.00	30.00	21.00	415	+15...+50 °C
	QTi 3x18/220-240 DIM	4008321069931	2250	53.6	0.24	0.98	360.00	40.00	21.00	350	+15...+50 °C
	QTi 4x18/220-240 DIM	4008321070012	3000	69.3	0.31	0.98	360.00	40.00	21.00	350	+15...+50 °C
	QTP-DL 1x18-24	4008321117861	750	17	0.08	0.95	239.00	30.00	28.00	229	-20...+50 °C
	QTP-DL 2x18-24	4008321117885	1500	32	0.15	0.98	150.00	22.00	22.00	140	-20...+50 °C
	QT-ECO 1x18-24/220-240L	4050300660417	750	17	0.13	0.60 c	150.00	22.00	22.00	140	-15...+50 °C
QT-ECO 1x18-24/220-240S	4050300638560	750	17	0.13	0.60 c	80.00	40.00	22.00	72...75	-15...+50 °C	
<b>LUMILUX DE LUXE T8 16 W<sup>11</sup></b>	QT-ECO 1x4-16/220-240 L	4050300660370	836	16	0.11	0.60 c	150.00	22.00	22.00	140	-15...+50 °C
	QT-ECO 1x4-16/220-240 S	4050300638584	836	16	0.11	0.60 c	80.00	40.00	22.00	72...75	-15...+50 °C

<sup>10</sup> All values for Light Color 5400 K

<sup>11</sup> All values for Light Color 3000 K

Edition 01.2013. 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]	I <sub>n</sub> [A]	Power Factor ECG	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T <sub>a</sub> [°C]
<b>LUMILUX DE LUXE T8 18 W<sup>12</sup></b>	QTi DALI 1x18/220-240 DIM	4050300870403	1200	18.3	0.08	0.97	360.00	30.00	21.00	350	-20...+50 °C
	QTi DALI 2x18/220-240 DIM	4050300870526	2400	36.5	0.16	0.97	425.00	30.00	21.00	415	-20...+50 °C
	QTi DALI 3x18/220-240 DIM	4008321069979	3600	53.6	0.24	0.98	360.00	40.00	21.00	350	-20...+50 °C
	QTi DALI 4x18/220-240 DIM	4008321070050	4800	69.3	0.31	0.98	360.00	40.00	21.00	350	-20...+50 °C
	QTi 1x14/24/21/39 GII	4008321383334	1200	19	0.09	0.93	360.00	30.00	28.00	350	-20...+50 °C
	QTi 1x18/220-240 DIM	4050300870601	1200	19	0.08	0.97	360.00	30.00	21.00	350	-20...+50 °C
	QTi 2x14/24/21/39 GII	008321383396	2400	37	0.17	0.96	360.00	30.00	21.00	350	-20...+50 °C
	QTi 2x18/220-240 DIM	4050300870960	2400	37	0.16	0.97	425.00	30.00	21.00	415	-20...+50 °C
	QTi 3x18/220-240 DIM	4008321069931	3600	53.6	0.24	0.98	360.00	40.00	21.00	350	-20...+50 °C
	QTi 4x18/220-240 DIM	4008321070012	4800	69.3	0.31	0.98	360.00	40.00	21.00	350	-20...+50 °C
	QTP8 1x18/230-240	4008321131584	1200	18	0.09	0.96	360.00	30.00	30.00	350	-25...+55 °C
	QTP8 2x18/230-240	4008321131607	2400	35	0.17	0.97	423.00	30.00	30.00	415	-25...+55 °C
	QTP8 3x/4x18/230-240	4008321131706	3467	73	0.32	0.99	423.00	40.00	30.00	415	-25...+55 °C
	QTP-DL 1x18-24	4008321117861	1156	56	0.26	0.99	239.00	30.00	28.00	229	-25...+50 °C
	QTP-DL 2x18-24	4008321117885	2311	18	0.09	0.95	239.00	40.00	28.00	229	-20...+50 °C
	QTP-M 1x26-42	4008321329134	1156	37	0.17	0.98	103.00	67.00	31.00	110	-20...+50 °C
	QTP-M 2x26-32	4008321329158	2400	19	0.10	0.88 c	123.00	79.00	33.00	129.5	-20...+50 °C
	QT-FIT8 1x18	4008321294180	1200	19	0.09	0.95	280.00	30.00	28.00	270	-15...+50 °C
	QT-FIT8 2x18	4008321294241	2400	36	0.16	0.98	360.00	30.00	28.00	350	-15...+50 °C
	QT-FIT8 3x/4x18	4008321294302	3600	54	0.25	0.97	280.00	40.00	28.00	270	-15...+50 °C
QT-FIT8 3x/4x18	4008321294302	4800	74	0.33	0.99	280.00	40.00	28.00	270	-15...+50 °C	
QT-ECO 1x18-24/220-240L	4050300660417	1111	19	0.14	0.60 c	150.00	22.00	22.00	140	-15...+50 °C	
QT-ECO 1x18-24/220-240S	4050300638560	1111	19	0.14	0.60 c	80.00	40.00	22.00	72...75	-15...+50 °C	
HF 1x18/230-240 DIM	4050300319254	1156	19	0.09	0.95	360.00	30.00	30.00	350	0...+50 °C	
HF 2x18/230-240 DIM	4050300350950	2400	36	0.17	0.97	423.00	30.00	30.00	415	0...+50 °C	
<b>LUMILUX DE LUXE T8 30 W<sup>13</sup></b>	QTi DALI 1x36/220-240 DIM	4050300870427	1828	36	0.16	0.98	360.00	30.00	21.00	350	+10...+50 °C
	QTi DALI 2x36/220-240 DIM	4050300870885	3656	69	0.31	0.98	423.00	30.00	21.00	415	+10...+50 °C
	QTi 1x36/220-240 DIM	4050300870625	1828	36	0.16	0.98	360.00	30.00	21.00	350	+15...+50 °C
	QTi 2x36/220-240 DIM	4050300870755	3656	69	0.31	0.98	425.00	30.00	21.00	415	+15...+50 °C
	QTP5 1x24-39	4008321329110	2400	33	0.15	0.97	280.00	30.00	21.00	270	-20...+50 °C

<sup>12</sup> All values for Light Color 4000 K<sup>13</sup> All values for Light Color 3000 K

Edition 01.2013. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

LP LPD MK



---

QTP5 2x24-39	4008321329417	4560	62	0.27	0.98	360.00	30.00	21.00	350	-20...+50 °C
HF 1x36/230-240 DIM	4050300297705	2320	36	0.17	0.97	360.00	30.00	30.00	350	+15...+50 °C
HF 2x36/230-240 DIM	4050300350974	4640	71	0.31	0.99	423.00	30.00	30.00	415	+15...+50 °C

Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	System Power [W]	I <sub>N</sub> [A]	Power Factor ECG	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T <sub>a</sub> [°C]
<b>LUMILUX DE LUXE T8 36 W<sup>14</sup></b>	QTi DALI 1x36/220-240 DIM	4050300870427	2337	36	0.16	0.98	360.00	30.00	21.00	350	-20...+50 °C
	QTi DALI 2x36/220-240 DIM	4050300870885	4675	69	0.30	0.98	423.00	30.00	21.00	415	-20...+50 °C
	QTi 1x14/24/21/39 GII	4008321383334	2900	35	0.09	0.96	360.00	30.00	21.00	350	-20...+50 °C
	QTi 1x36/220-240 DIM	4050300870625	2900	36	0.16	0.97	360.00	30.00	21.00	350	-20...+50 °C
	QTi 2x14/24/21/39 GII	4008321383396	5540	70	0.31	0.98	360.00	30.00	21.00	350	-20...+50 °C
	QTi 2x36/220-240 DIM	4050300870755	5800	69	0.31	0.98	425.00	30.00	21.00	415	-20...+50 °C
	QTP5 1x24-39	4008321329110	2770	36	0.16	0.97	280.00	30.00	21.00	270	-20...+50 °C
	QTP5 2x24-39	4008321329417	5540	70	0.31	0.98	360.00	30.00	21.00	350	-20...+50 °C
	QTP8 1x36/230-240	4008321131621	2770	35	0.16	0.96	360.00	30.00	30.00	350	-25...+55 °C
	QTP8 2x36/230-240	4008321131645	5540	72	0.31	0.98	423.00	30.00	30.00	415	-25...+55 °C
	QTP-DL 1x36-40	4008321117908	2943	38	0.17	0.99	239.00	30.00	28.00	229	-20...+50 °C
	QTP-DL 2x36-40	4008321117922	5887	80.5	0.35	0.99	280.00	40.00	28.00	270	-20...+50 °C
	QTP-M 1x26-42	4008321329134	2900	35	0.16	0.97	103.00	67.00	31.00	110	-20...+50 °C
	QT-FIT8 1x36	4008321294203	2900	36	0.16	0.96	280.00	30.00	28.00	270	-15...+50 °C
	QT-FIT8 2x36	4008321294265	5540	71	0.32	0.98	360.00	30.00	28.00	350	-15...+50 °C
	QT-FIT8 3x36	4008321512055	9090	105	0.48	0.99	280.00	40.00	28.00	270	-15...+50 °C
	QT-M 2x26-42/220-240 S	4008321110022	5540	70	0.30	0.97	123.00	79.00	33.00	129.5	-20...+50 °C
HF 1x36/230-240 DIM	4050300297705	2900	36	0.17	0.97	360.00	30.00	30.00	350	0...+50 °C	

<sup>14</sup> All values for Light Color 4000 K

Lamp	ECG	EAN 10 ECG	Luminous Flux @25°C [lm]	System Power [W]	I <sub>N</sub> [A]	Power Factor ECG	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T <sub>a</sub> [°C]
<b>LUMILUX DE LUXE T8 58 W<sup>15</sup></b>	QTi DALI 1x58/220-240 DIM	4050300870823	4423	56	0.25	0.99	360.00	30.00	21.00	350	-20...+50 °C
	QTi DALI 2x58/220-240 DIM	4050300870847	8846	108	0.47	0.99	423.00	30.00	21.00	415	-20...+50 °C
	QTi 1x28/54/35/49 GII	4008321383358	4423	55	0.24	0.99	360.00	30.00	21.00	350	-20...+50 °C
	QTi 1x58/220-240 DIM	4050300870908	4423	56	0.25	0.99	360.00	30.00	21.00	350	-20...+50 °C
	QTi 2x28/54/35/49 GII	4008321383419	8846	109	0.47	0.99	360.00	30.00	21.00	350	-20...+50 °C
	QTi 2x58/220-240 DIM	4050300870731	8846	108	0.47	0.99	425.00	30.00	21.00	415	-20...+50 °C
	QTP5 1x54	4008321329394	4423	55	0.25	0.97	280.00	30.00	21.00	270	-20...+50 °C
	QTP5 2x54	4008321329097	8846	109	0.48	0.97	360.00	30.00	21.00	350	-20...+50 °C
	QTP8 1x58/230-240	4008321131669	4423	55	0.24	0.98	360.00	30.00	30.00	350	-25...+55 °C
	QTP8 2x58/230-240	4008321131683	8846	110	0.45	0.98	423.00	30.00	30.00	415	-25...+55 °C
	QT-FIT8 1x58-70	4008321294227	4423	54	0.24	0.96	280.00	30.00	28.00	270	-15...+50 °C
	QT-FIT8 2x58-70	4008321294289	8846	109	0.48	0.98	360.00	30.00	28.00	350	-15...+50 °C
	HF 1x58/230-240 DIM	4050300297729	4423	58	0.25	0.98	360.00	30.00	30.00	350	0...+50 °C
	HF 2x58/230-240 DIM	4050300350998	8846	116	0.48	0.99	423.00	30.00	30.00	415	0...+50 °C

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](http://www.osram.com/brokenlamp)

For more information technical Information see Technical guide. Free download at [www.osram.com](http://www.osram.com)

<sup>15</sup> All values for Light Color 4000 K