



# Shining examples of cost effectiveness and operating efficiency


Compact fluorescent lamps  
OSRAM DULUX® with plug-in bases

SEE THE WORLD IN A NEW LIGHT



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Setting new trends in lighting design – with OSRAM's compact fluorescent lamps with plug-in bases. They are considerably shorter and shallower than conventional tubular fluorescent lamps. This opens up a number of possibilities for them to be used indoors and outdoors in small, elegant luminaires.

OSRAM compact fluorescent lamps are shining examples if you are focus on longer lifetime and greater cost effectiveness. In these respects, they have demonstrated above-average performance. This not only benefits you, but also your environment.



## Short and powerful lamps with an extra long life: OSRAM DULUX® T PLUS and T IN PLUS

The well-established T and T IN models of the OSRAM DULUX® series have been further developed and have now an extra PLUS.

The OSRAM DULUX® T PLUS and T IN PLUS models are equipped with a special coating. This not only ensures a better maintenance, but also a longer lifetime and a longer service life. At the same time, the amount of mercury and therefore the environmental load has been considerably reduced. Due to a new manufacturing process, the appearance of these lamps has been improved dramatically.

OSRAM DULUX®  
T PLUS  
T IN PLUS





## OSRAM DULUX® **New** T PLUS

This compact fluorescent lamp is an especially short, compact plug-in base lamp with triple-turn tubes. It is about 1/3 shorter than the D version. Due to its shallow profile it is particularly suitable for unconventional small luminaires, short recessed downlights and modern lighting systems. Its luminous intensity distribution is rotationally symmetrical, as with incandescent lamps – and its lifetime is also eight times longer.

For operation with CCG

## OSRAM DULUX® **New** T IN PLUS

Interior lighting can lead to very high ambient temperatures. Narrow down lights can get very hot, for instance. OSRAM DULUX® T IN PLUS is very well-equipped to meet such high demands. 90 percent of the light output is obtained at ambient temperatures between 10° C and 70° C. The burning position of the lamp is mostly independent. Equipped with a new technology it has an improved run-up.

For operation with CCG

### APPLICATIONS:

Luminaires with a low profile

Short recessed downlights

Offices, corridors, foyers,  
entrance halls

### BENEFITS FOR YOUR CUSTOMERS:

Short and very compact

Longer lifetime

Extremely economical

Environmentally-friendly

#### OSRAM DULUX® T IN PLUS:

90% of the light output  
is reached at ambient  
temperatures of 10 – 70 °C.

Improved run-up

Universal burning position



## Technological pioneers in terms of versatility and efficiency: OSRAM DULUX® T/E PLUS and T/E IN PLUS

The improved models OSRAM DULUX® T/E and T/E IN PLUS are innovative, small and economical. In terms of their appearance and performance, the “E” versions correspond to their well-established basic counterpart OSRAM DULUX® T PLUS. They are designed to be used for electronic control gear and therefore offer distinct advantages.

In combination with the electronic control gear, compact fluorescent lamps are even more economical, more comfortable and provide greater operational safety.

A QUICKTRONIC® control gear has been designed especially for these lamps and is available for one or two lamp-operation. Within the ECG product family there is also the QUICKTRONIC® DIMMING gear for those developing dimmable luminaires.

### OSRAM DULUX® **New** T/E PLUS

Short and efficient – in the true sense of the word. The OSRAM DULUX® T/E PLUS with its shortened plug-in base has been especially designed for small or short lamps and lighting systems. It is a small economic miracle, as its lifetime in ECG systems is ten times longer than comparatively bright incandescent light bulbs.

For operation with ECG



**OSRAM DULUX®** New  
**T/E IN PLUS**

OSRAM DULUX® T/E PLUS has similar advantages to the OSRAM DULUX® T/E IN PLUS version for narrow luminaires, for high temperatures. It is operated with the same electronic control gear as for OSRAM DULUX® T/E PLUS and also has an identical base.

For operation with ECG

**OSRAM DULUX®** New  
**T/E 70 W IN PLUS**

Now there is a new performance level which fully complements the group of OSRAM DULUX® T/E IN PLUS. The OSRAM DULUX® T/E 70 W IN PLUS with amalgam technology is perfectly suited for powerful downlights. But it also sets new standards for exterior lighting with its high luminous flux of 5,200 lm. Like the OSRAM DULUX® T/E 57 W IN PLUS, the OSRAM DULUX® T/E 70 W IN PLUS is only available for 4-pin base lamps for ECG systems.

For operation with ECG



OSRAM DULUX®  
T/E PLUS  
T/E IN PLUS

**APPLICATIONS:**

- Luminaires with shallow bases
- Powerful luminaires and downlights
- Direct and indirect lighting
- High luminous flux, also suitable for outdoor applications (T/E IN PLUS)
- Emergency lighting (T/E IN PLUS)

**BENEFITS FOR YOUR CUSTOMERS:**

- Small and economical
- Comfortable and efficient due to ECG system
- Universal burning position
- Fully dimmable
- OSRAM DULUX® T/E IN PLUS:**
- Improved run-up
- 90 % light output at ambient temperatures of 10 °C – 70 °C



## Two lamps that cast everything in a much better light: OSRAM DULUX® D and D/E

The OSRAM DULUX® D and D/E are modern energy-saving light sources. Their warm pleasant light in LUMILUX® colours ensures excellent colour rendering. OSRAM DULUX® S has the same length, but OSRAM DULUX® D and D/E are twice as powerful.

With their extremely low profile, very short overall length, these compact fluorescent lamps are perfectly suitable for miniaturised luminaires and shallow downlights.



OSRAM  
DULUX® D



### OSRAM DULUX® D/E

This compact fluorescent lamp corresponds to their basic counterparts for conventional operation, the OSRAM DULUX® D in terms of form and function. However, as it is operated with electronic control gear, it provides greater comfort, economy and safety. The preheat, ignition, current limiting and compensation functions are all integrated in the electronic control gear. With the DULUXTRONIC® control gear, the lamp holder and in some cases a cable clamp is already integrated in the electronic control gear. This means that conventional luminaires can be upgraded in a modern and efficient way, while keeping installation and wiring costs to a minimum.

### OSRAM DULUX® D

A powerful performance with a smaller profile: OSRAM DULUX® D is only a little longer and one third narrower than a conventional light bulb. It is therefore best suited for application in shallow downlights and miniaturised luminaires.

For operation with CCG

For operation with ECG

### APPLICATIONS:

Luminaires with a low profile

Miniaturised luminaires, downlights

Foyers, entrance halls

### BENEFITS FOR YOUR CUSTOMERS:

High output with very low system costs

The lamps only consume 1/4 to 1/5 of the electricity consumed by comparatively bright incandescent light bulbs

Longer lifetime than comparatively bright light bulbs

Colourful light with LUMILUX® colours



OSRAM DULUX® D/E



## Setting the trend with a creative lighting design: OSRAM DULUX® S and S/E

Due to their small size and low profile, OSRAM DULUX® S and S/E are particularly well-suited for innovative lighting designs. This enables one to make full use of the possibilities for modern lighting design without needing to make concessions. Its warm, pleasant light is not too intrusive and ensures optimal colour rendering.





### OSRAM DULUX® S

With its elongated low-profile design, OSRAM DULUX® S is the ideal light source for super slim wall luminaires. It is also highly effective in other lighting systems such as special luminaires for stairways, recessed uplights, garden and pathway lighting.

For operation with CCG

### OSRAM DULUX® S/E

With OSRAM's QUICKTRONIC®, DULUXTRONIC® and ACCUTRONIC® control gear, these innovative compact fluorescent lamps can be connected to almost any type of power supply – from mains current, batteries to solar power systems. In principle, they correspond to conventional OSRAM DULUX® S types, although they provide considerable advantages in terms of application with electronic control gear.

For operation with ECG

OSRAM  
DULUX® S/E



### APPLICATIONS:

- Shallow downlights
- Miniaturised luminaires
- Surgeries, stairways, foyers, entrance halls
- Recessed and garden lighting

### BENEFITS FOR YOUR CUSTOMERS:

- High output with very low system costs
- The lamps only consume 1/4 to 1/5 of the electricity consumed by comparatively bright incandescent light bulbs
- Thanks to LUMILUX® colours very good colour rendition
- OSRAM DULUX® S/E:**
- Greater economy, more lighting comfort and greater safety with electronic control gear



## New standards in lighting design: OSRAM DULUX® L and L SP

OSRAM DULUX® L opens up new possibilities for lighting designers. With its pleasant and energy-saving light, it can provide interesting and unusual effects for the entire indoor and outdoor lighting.

These compact fluorescent lamps are available in the well-established colours LUMILUX® and LUMILUX® DE LUXE, known for their excellent colour rendition. They can be easily combined with existing LUMILUX® lighting.



OSRAM  
DULUX® L and L SP



## OSRAM DULUX® L

As a compact light source with a high lumen level, OSRAM DULUX® L lamps meet the highest standards of performance. Despite having virtually the same luminous flux and the same power consumption as tubular fluorescent lamps, they are less than half as long and more compact than U-shaped and ring-type lamps.

Available in the wattages 18, 24 and 36, OSRAM DULUX® L can be used both with conventional control gear and with electronic control gear. At higher performance levels OSRAM DULUX® L 40W, 55W and 80 W are exclusively designed to be operated with electronic control gear.

Operation with CCG and ECG

## OSRAM DULUX® L 80 W New

The trend in lighting design is increasingly towards a higher luminous flux with compact fluorescent lamps. This has led to the development of the new powerful 80 Watt-OSRAM DULUX® L model, which has a luminous flux of 6,000 lumen. Due to its compact form, it is suitable for application in short-range luminaires with a 600mm edge length, e.g. with indirect lighting, in offices or for outdoor lighting. For optimal operation, OSRAM provides ECG's that can operate one or two lamps. The lamps can be dimmed by means of the electronic control gear product group QUICKTRONIC® DIMMABLE.

For operation with ECG

## OSRAM DULUX® L SP

OSRAM DULUX® L SP has been especially developed for outdoor applications. Its maximum luminous flux has been set to the average outdoor temperature of 5 °C.

Operation with CCG and ECG

### APPLICATIONS:

Ideal for new short-range luminaires

For use in rectangular, square and round ceiling and wall luminaires

For use foyers, offices, shops and exhibitions rooms

### BENEFITS FOR YOUR CUSTOMERS:

Low system costs

Wattage appropriate for conventional and electronic control gear

Low installation costs

Low electricity costs

Low lamp replacement costs

### OSRAM DULUX® L SP:

Especially suitable for outdoor lighting



## **Generous lighting creates a good working environment: OSRAM DULUX® F**

Large areas require special lighting. OSRAM DULUX® F compact fluorescent lamps are your best choice. Their high luminous efficiency makes them ideal for area lighting with 2 M to 3 M modular luminaires (200 to 300 mm edge length).



## OSRAM DULUX® F

OSRAM DULUX® F distinguishes itself from others due to its particularly high luminous flux. One OSRAM DULUX® F 36 W operating with electronic control gear has a 13 % higher luminous flux than two OSRAM DULUX® L 18 W lamps, for example. This not only facilitates operation but also considerably reduces system costs. OSRAM DULUX® F is only about half as long as an OSRAM DULUX® L lamp of comparable performance. This model can be operated both with conventional and with electronic control gear.

Operation with CCG and ECG

OSRAM  
DULUX® F



## APPLICATIONS:

Wherever area lighting is required

Surgeries, workshops, shops

Applicable in rectangular surface-mounted and recessed luminaires, low-profile wall and ceiling luminaires

## BENEFITS FOR YOUR CUSTOMERS:

High luminous efficiency

Compact dimensions

Easy to handle and low system costs



## **The trend is towards more efficiency: OSRAM QUICKTRONIC<sup>®</sup> and DULUXTRONIC<sup>®</sup> electronic control gear**

Compact fluorescent lamps need to be operated with electronic control gear, as the discharge of gas requires a fixed current and voltage. Modern electronic control gear offer more than the basic functions performed by conventional control gear. They produce a flicker-free ignition for compact lamps after a fixed warm start. Compared with a cold-start ignition, this type of ignition is less harmful for lamps and the number of switching cycles will not have a significantly impact on the service life of the lamp.

The high operating frequency of electronic control gear systems ensures constant, flicker-free light. The same type of lamp requires less electrical power with a high-frequency distribution voltage for the same luminous intensity. The reduced power consumption is less of a strain on the lamp and thus increases the lamp life and improves its efficiency.



**BENEFITS OF ELECTRONIC CONTROL GEAR:**

**Greater economy**

Significantly longer lamp life compared to conventional control gear

Improved lamp efficiency

Energy savings of over 30 % compared to conventional control gear

High switching possible thanks to optimised ignition

**More comfort**

Flicker-free ignition

Constant, flicker-free light

Silent operation

No blinking and flickering at the end of the lamp's life

**Greater safety**

Safe shutdown if the lamp is defect and at the end of a lamp life

Approx. 80 % less heat build-up compared to incandescent light bulbs

Suitable for emergency lighting according to VDE 0108

OSRAM's electronic control gear constantly monitor all safety-related parameters. The electronic control gear will shut down if any operating conditions are defect. A halt function prevents irritating starting attempts. Thermal overload is prevented—which represents an important contribution to greater safety in lighting systems.

The worldwide trend for the lighting industry in the coming years clearly points towards more energy-efficient lighting systems with electronic control gear. The driving forces behind this are greater economy, more lighting comfort and greater safety.



**One for all:  
QUICKTRONIC® MULTIWATT**

This electronic control gear group is ideal for the optimal operation of different wattages and types of lamp. QUICKTRONIC® MULTIWATT versions reduce the work involved in ordering, logistics and production because they can be used where various ECG types were necessary before.



**Economical lighting comfort  
QUICKTRONIC® DIMMABLE**

Whether it be for private, commercial or public applications, a lot of emphasis is laid on lighting control. Particular emphasis is laid on lighting comfort and greater economy.

QUICKTRONIC® DIMMABLE is the ideal solution to integrate into dim luminaires e.g. in offices with daylight-sensitive lighting control, in conference rooms with lighting control adapted to the circumstances and in PC/CAD work places with a customised luminary adaptation.



**The electronic alternative to conventional control gear:  
QUICKTRONIC® ECONOMIC**

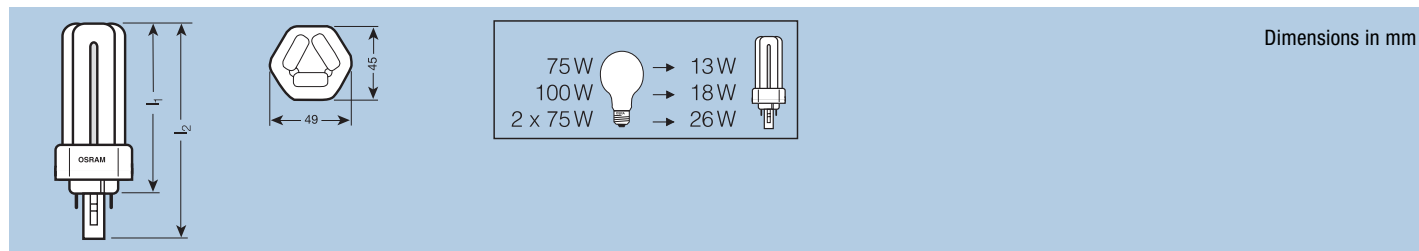
QUICKTRONIC® ECONOMIC is an electronic control gear with the typical geometry of conventional control gear. This is the reason it is applied in all areas, where conventional control gear was previously required. Thanks to QUICKTRONIC® ECONOMIC numerous luminaires can be easily and safely upgraded, to benefit from the savings achieved by using ECG's.



**A compact solution requires minimum effort:  
DULUXTRONIC®**

Manufacturing compact luminaires with minimal installation costs is not a problem – thanks to DULUXTRONIC®. A total of six different geometric versions are available and offer an optimal electronic control gear solution for almost every type of luminaire and nearly every application.

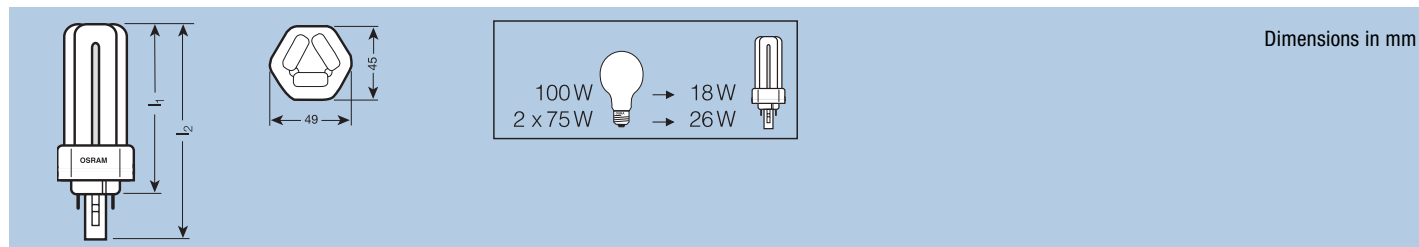
## OSRAM DULUX® T PLUS FOR CONVENTIONAL CONTROL GEARS (CCG)



Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l <sub>1</sub> max. mm	Length l <sub>2</sub> max. mm	Length to IEC l <sub>1</sub> max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® T PLUS</b>											
For operation with CCG.											
DULUX T 13 W/840 PLUS	13	LUMILUX Cool White	1 B	900	90	113	90	GX24d-1	10	446905	A
DULUX T 13 W/830 PLUS	13	LUMILUX Warm White	1 B	900	90	113	90	GX24d-1	10	446929	A
DULUX T 13 W/827 PLUS	13	LUMILUX INTERNA	1 B	900	90	113	90	GX24d-1	10	446943	A
DULUX T 18 W/840 PLUS	18	LUMILUX Cool White	1 B	1200	100	123	110	GX24d-2	10	333465	B
DULUX T 18 W/830 PLUS	18	LUMILUX Warm White	1 B	1200	100	123	110	GX24d-2	10	333489	B
DULUX T 18 W/827 PLUS	18	LUMILUX INTERNA	1 B	1200	100	123	110	GX24d-2	10	333502	B
DULUX T 26 W/840 PLUS	26	LUMILUX Cool White	1 B	1800	115	138	130	GX24d-3	10	342047	B
DULUX T 26 W/830 PLUS	26	LUMILUX Warm White	1 B	1800	115	138	130	GX24d-3	10	342061	B
DULUX T 26 W/827 PLUS	26	LUMILUX INTERNA	1 B	1800	115	138	130	GX24d-3	10	342085	B

OSRAM DULUX T PLUS 18W only for operation with control gear 0.22 A.

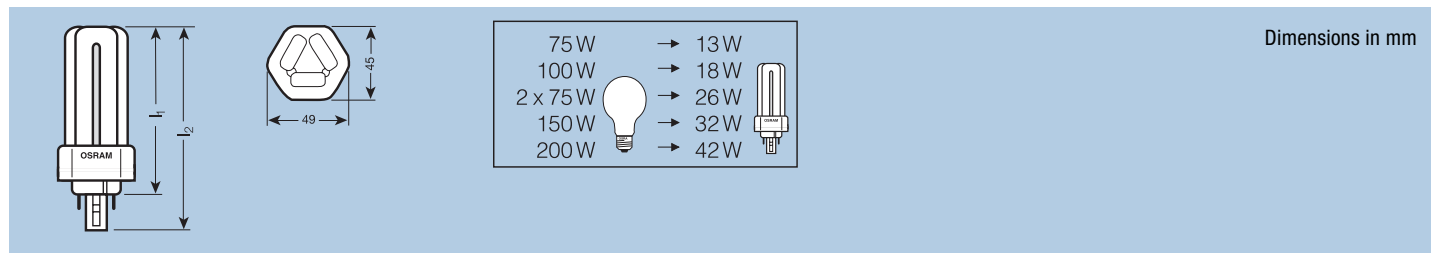
## OSRAM DULUX® T IN PLUS FOR CONVENTIONAL CONTROL GEARS (CCG)



Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l <sub>1</sub> max. mm	Length l <sub>2</sub> max. mm	Length to IEC l <sub>1</sub> max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® T IN PLUS</b>											
For operation with CCG.											
DULUX T 18 W/840 IN PLUS	18	LUMILUX Cool White	1 B	1200	95	118	110	GX24d-2	10	425269	B
DULUX T 18 W/830 IN PLUS	18	LUMILUX Warm White	1 B	1200	95	118	110	GX24d-2	10	425283	B
DULUX T 18 W/827 IN PLUS	18	LUMILUX INTERNA	1 B	1200	95	118	110	GX24d-2	10	425306	B
DULUX T 26 W/840 IN PLUS	26	LUMILUX Cool White	1 B	1800	110	133	130	GX24d-3	10	425382	B
DULUX T 26 W/830 IN PLUS	26	LUMILUX Warm White	1 B	1800	110	133	130	GX24d-3	10	425405	B
DULUX T 26 W/827 IN PLUS	26	LUMILUX INTERNA	1 B	1800	110	133	130	GX24d-3	10	425429	B

OSRAM DULUX® T 18 W IN PLUS only for operation with control gear 0.22 A.

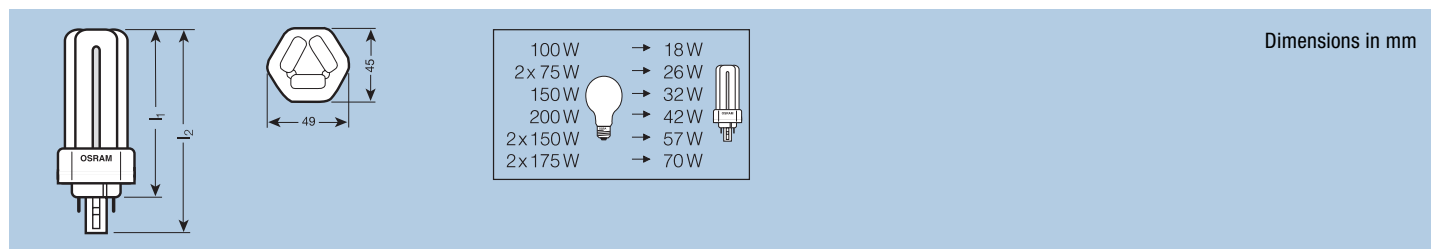
## OSRAM DULUX® T/E PLUS FOR ELECTRONIC CONTROL GEAR (ECG)



Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l <sub>1</sub> max. mm	Length l <sub>2</sub> max. mm	Length to IEC l <sub>1</sub> max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® T/E PLUS</b>											
For operation with ECG and dimmed operation.											
DULUX T/E 13 W/840 PLUS	13	LUMILUX Cool White	1 B	900	90	106	90	GX24q-1	10	446967	A
DULUX T/E 13 W/830 PLUS	13	LUMILUX Warm White	1 B	900	90	106	90	GX24q-1	10	446981	A
DULUX T/E 13 W/827 PLUS	13	LUMILUX INTERNA	1 B	900	90	106	90	GX24q-1	10	447001	A
DULUX T/E 18 W/840 PLUS	18	LUMILUX Cool White	1 B	1200	100	116	110	GX24q-2	10	342221	A
DULUX T/E 18 W/830 PLUS	18	LUMILUX Warm White	1 B	1200	100	116	110	GX24q-2	10	342245	A
DULUX T/E 18 W/827 PLUS	18	LUMILUX INTERNA	1 B	1200	100	116	110	GX24q-2	10	342269	A
DULUX T/E 26 W/840 PLUS	26	LUMILUX Cool White	1 B	1800	115	131	130	GX24q-3	10	342283	B
DULUX T/E 26 W/830 PLUS	26	LUMILUX Warm White	1 B	1800	115	131	130	GX24q-3	10	342306	B
DULUX T/E 26 W/827 PLUS	26	LUMILUX INTERNA	1 B	1800	115	131	130	GX24q-3	10	342320	B
DULUX T/E 32 W/840 PLUS	32	LUMILUX Cool White	1 B	2400	131	147	145	GX24q-3	10	348568	B
DULUX T/E 32 W/830 PLUS	32	LUMILUX Warm White	1 B	2400	131	147	145	GX24q-3	10	348582	B
DULUX T/E 32 W/827 PLUS	32	LUMILUX INTERNA	1 B	2400	131	147	145	GX24q-3	10	348605	B
DULUX T/E 42 W/840 PLUS	42	LUMILUX Cool White	1 B	3200	152	168	155	GX24q-4	10	425627	B
DULUX T/E 42 W/830 PLUS	42	LUMILUX Warm White	1 B	3200	152	168	155	GX24q-4	10	425641	B
DULUX T/E 42 W/827 PLUS	42	LUMILUX INTERNA	1 B	3200	152	168	155	GX24q-4	10	425665	B

Electronic control gear QUICKTRONIC®.

## OSRAM DULUX® T/E IN PLUS FOR ELECTRONIC CONTROL GEAR (ECG)

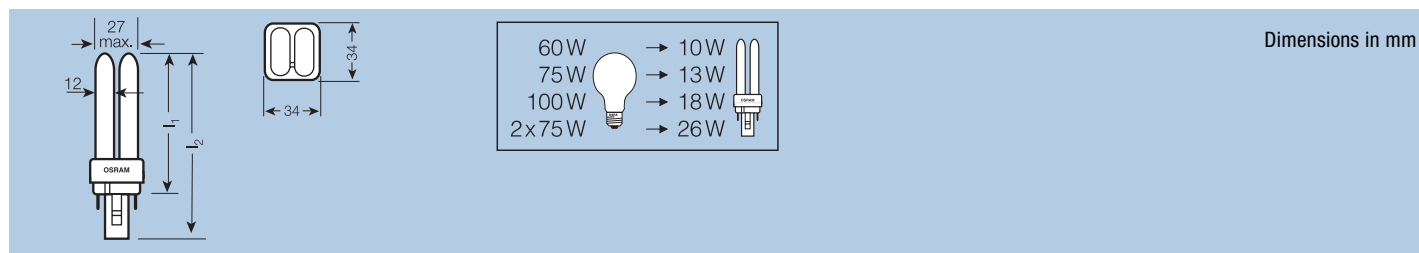


Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l <sub>1</sub> max. mm	Length l <sub>2</sub> max. mm	Length to IEC l <sub>1</sub> max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® T/E IN PLUS</b>											
For operation with ECG.											
DULUX T/E 18 W/840 IN PLUS	18	LUMILUX Cool White	1 B	1200	95	111	110	GX24q-2	10	425320	A
DULUX T/E 18 W/830 IN PLUS	18	LUMILUX Warm White	1 B	1200	95	111	110	GX24q-2	10	425344	A
DULUX T/E 18 W/827 IN PLUS	18	LUMILUX INTERNA	1 B	1200	95	111	110	GX24q-2	10	425368	A
DULUX T/E 26 W/840 IN PLUS	26	LUMILUX Cool White	1 B	1800	110	126	130	GX24q-3	10	425443	B
DULUX T/E 26 W/830 IN PLUS	26	LUMILUX Warm White	1 B	1800	110	126	130	GX24q-3	10	425467	B
DULUX T/E 26 W/827 IN PLUS	26	LUMILUX INTERNA	1 B	1800	110	126	130	GX24q-3	10	425481	B
DULUX T/E 32 W/840 IN PLUS	32	LUMILUX Cool White	1 B	2400	126	142	145	GX24q-3	10	425504	B
DULUX T/E 32 W/830 IN PLUS	32	LUMILUX Warm White	1 B	2400	126	142	145	GX24q-3	10	425528	B
DULUX T/E 32 W/827 IN PLUS	32	LUMILUX INTERNA	1 B	2400	126	142	145	GX24q-3	10	425542	B
DULUX T/E 42 W/840 IN PLUS	42	LUMILUX Cool White	1 B	3200	147	163	155	GX24q-4	10	425566	B
DULUX T/E 42 W/830 IN PLUS	42	LUMILUX Warm White	1 B	3200	147	163	155	GX24q-4	10	425580	B
DULUX T/E 42 W/827 IN PLUS	42	LUMILUX INTERNA	1 B	3200	147	163	155	GX24q-4	10	425603	B
DULUX T/E 57 W/840 IN PLUS	57	LUMILUX Cool White	1 B	4300	179	195	179	GX24q-5	10	622675	B
DULUX T/E 57 W/830 IN PLUS	57	LUMILUX Warm White	1 B	4300	179	195	179	GX24q-5	10	622699	B
DULUX T/E 57 W/827 IN	57	LUMILUX INTERNA	1 B	4300	179	195	179	GX24q-5	10	622712	B
DULUX T/E 70 W/830 IN PLUS	70	LUMILUX Warm White	1 B	5200	219	235	219	GX24q-6	10	800394	B
DULUX T/E 70 W/840 IN PLUS	70	LUMILUX Cool White	1 B	5200	219	235	219	GX24q-6	10	800417	B

Electronic control gear QUICKTRONIC®.

New  
New

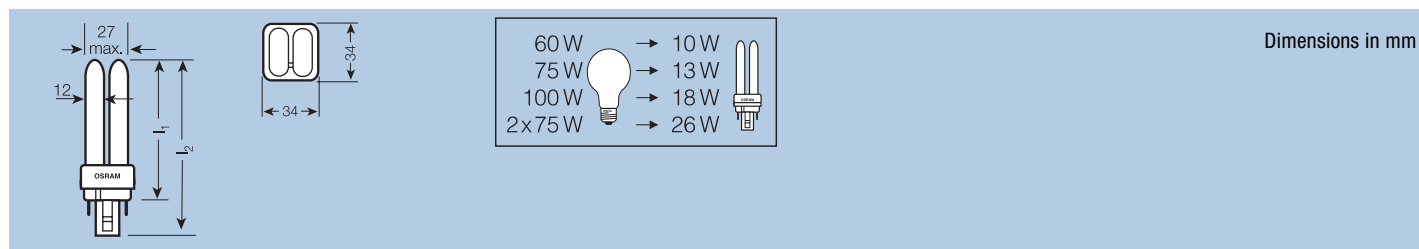
## OSRAM DULUX® D FOR CONVENTIONAL CONTROL GEAR (CCG)



Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l <sub>1</sub> max. mm	Length l <sub>2</sub> max. mm	Length to IEC l <sub>1</sub> max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® D</b>											
For operation with CCG.											
DULUX D 10 W/840	10	LUMILUX Cool White	1 B	600	87	110	95	G24d-1	10/50	010595	B
DULUX D 10 W/830	10	LUMILUX Warm White	1 B	600	87	110	95	G24d-1	10/50	025681	B
DULUX D 10 W/827	10	LUMILUX INTERNA	1 B	600	87	110	95	G24d-1	10/50	008110	B
DULUX D 13 W/840	13	LUMILUX Cool White	1 B	900	115	138	130	G24d-1	10/50	010625	A
DULUX D 13 W/830	13	LUMILUX Warm White	1 B	900	115	138	130	G24d-1	10/50	025698	A
DULUX D 13 W/827	13	LUMILUX INTERNA	1 B	900	115	138	130	G24d-1	10/50	008127	A
DULUX D 18 W/840	18	LUMILUX Cool White	1 B	1200	130	153	140	G24d-2	10/50	012056	B
DULUX D 18 W/830	18	LUMILUX Warm White	1 B	1200	130	153	140	G24d-2	10/50	025704	B
DULUX D 18 W/827	18	LUMILUX INTERNA	1 B	1200	130	153	140	G24d-2	10/50	011462	B
DULUX D 26 W/840	26	LUMILUX Cool White	1 B	1800	149	172	160	G24d-3	10/50	012049	B
DULUX D 26 W/830	26	LUMILUX Warm White	1 B	1800	149	172	160	G24d-3	10/50	025711	B
DULUX D 26 W/827	26	LUMILUX INTERNA	1 B	1800	149	172	160	G24d-3	10/50	011912	B

OSRAM DULUX® D 18 W only for operation with control gear 0.22 A.

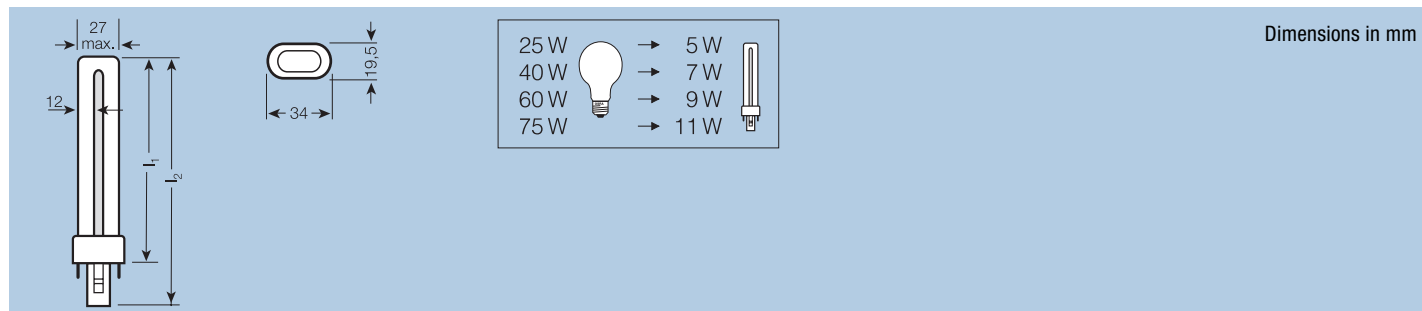
## OSRAM DULUX® D/E FOR ELECTRONIC CONTROL GEAR (ECG) AND FOR DIMMER SYSTEMS



Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l <sub>1</sub> max. mm	Length l <sub>2</sub> max. mm	Length to IEC l <sub>1</sub> max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® D/E</b>											
For ECG operation and dimmer systems.											
DULUX D/E 10 W/840	10	LUMILUX Cool White	1 B	600	87	103	95	G24q-1	10	017587	A
DULUX D/E 10 W/830	10	LUMILUX Warm White	1 B	600	87	103	95	G24q-1	10	419435	A
DULUX D/E 10 W/827	10	LUMILUX INTERNA	1 B	600	87	103	95	G24q-1	10	012124	A
DULUX D/E 13 W/840	13	LUMILUX Cool White	1 B	900	115	131	130	G24q-1	10	017594	A
DULUX D/E 13 W/830	13	LUMILUX Warm White	1 B	900	115	131	130	G24q-1	10	389059	A
DULUX D/E 13 W/827	13	LUMILUX INTERNA	1 B	900	115	131	130	G24q-1	10	012131	A
DULUX D/E 18 W/840	18	LUMILUX Cool White	1 B	1200	130	146	140	G24q-2	10	017617	A
DULUX D/E 18 W/830	18	LUMILUX Warm White	1 B	1200	130	146	140	G24q-2	10	327211	A
DULUX D/E 18 W/827	18	LUMILUX INTERNA	1 B	1200	130	146	140	G24q-2	10	012148	A
DULUX D/E 26 W/840	26	LUMILUX Cool White	1 B	1800	149	165	160	G24q-3	10	020303	B
DULUX D/E 26 W/830	26	LUMILUX Warm White	1 B	1800	149	165	160	G24q-3	10	327235	B
DULUX D/E 26 W/827	26	LUMILUX INTERNA	1 B	1800	149	165	160	G24q-3	10	012230	B

Electronic control gear QUICKTRONIC®.

# OSRAM DULUX® S FOR CONVENTIONAL CONTROL GEAR (CCG)

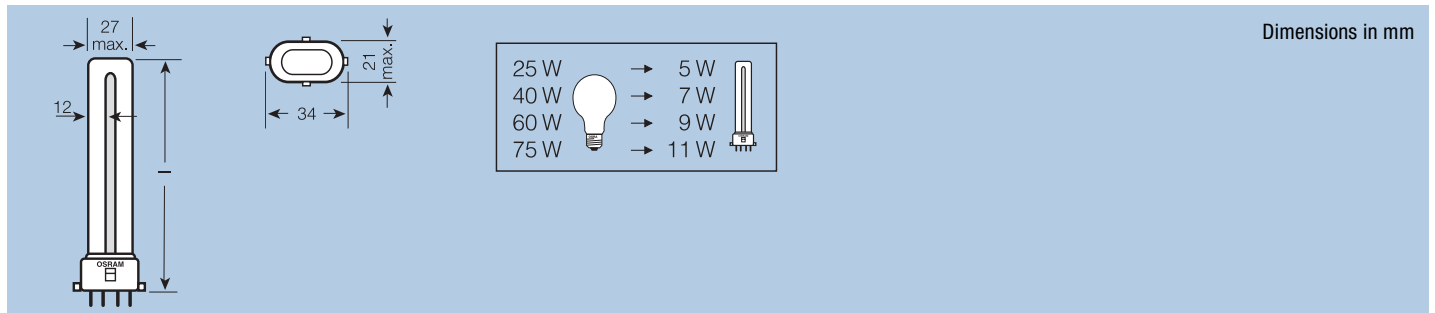


Dimensions in mm

Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l <sub>1</sub> max. mm	Length l <sub>2</sub> max. mm	Length to IEC l <sub>1</sub> max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® S LUMILUX®</b>											
										For operation with CCG and ECG.	
DULUX S 5 W/840	5	LUMILUX Cool White	1 B	250	85	108	85	G23	10/50	010564	B
DULUX S 5 W/830	5	LUMILUX Warm White	1 B	250	85	108	85	G23	10/50	025728	B
DULUX S 5 W/827	5	LUMILUX INTERNA	1 B	250	85	108	85	G23	10/50	006130	B
DULUX S 7 W/860	7	LUMILUX Daylight	1 B	375	114	137	115	G23	50	355306	B
DULUX S 7 W/840	7	LUMILUX Cool White	1 B	400	114	137	115	G23	10/50	010571	B
DULUX S 7 W/830	7	LUMILUX Warm White	1 B	400	114	137	115	G23	10/50	025735	B
DULUX S 7 W/827	7	LUMILUX INTERNA	1 B	400	114	137	115	G23	10/50	005997	B
DULUX S 7 W/827 EBLI	7	LUMILUX INTERNA	1 B	400	114	137	115	G23	10 <sup>1)</sup>	401270	B
DULUX S 9 W/860	9	LUMILUX Daylight	1 B	565	144	167	145	G23	50	355320	A
DULUX S 9 W/840	9	LUMILUX Cool White	1 B	600	144	167	145	G23	10/50	010588	A
DULUX S 9 W/830	9	LUMILUX Warm White	1 B	600	144	167	145	G23	10/50	025742	A
DULUX S 9 W/827	9	LUMILUX INTERNA	1 B	600	144	167	145	G23	10/50	006000	A
DULUX S 9 W/827 EBLI	9	LUMILUX INTERNA	1 B	600	144	167	145	G23	10 <sup>1)</sup>	401294	A
DULUX S 11 W/860	11	LUMILUX Daylight	1 B	850	214	237	215	G23	50	112374	A
DULUX S 11 W/840	11	LUMILUX Cool White	1 B	900	214	237	215	G23	10/50	010618	A
DULUX S 11 W/830	11	LUMILUX Warm White	1 B	900	214	237	215	G23	10/50	025759	A
DULUX S 11 W/827	11	LUMILUX INTERNA	1 B	900	214	237	215	G23	10/50	006017	A
DULUX S 11 W/827 EBLI	11	LUMILUX INTERNA	1 B	900	214	237	215	G23	10 <sup>1)</sup>	401355	A
<b>OSRAM DULUX® S COLOURFUL</b>											
										For operation with CCG and ECG.	
DULUX S 9 W/60	9	Red		400	144	167	145	G23	10	015927	
DULUX S 9 W/66	9	Green		800	144	167	145	G23	10	015934	
DULUX S 9 W/67	9	Blue		200	144	167	145	G23	10	015941	

<sup>1)</sup> Cardboard blister pack

# OSRAM DULUX® S/E FOR ELECTRONIC CONTROL GEAR (ECG) AND FOR DIMMER SYSTEMS

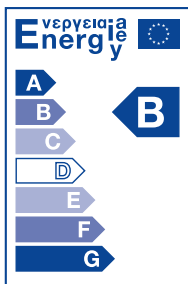


Dimensions in mm

Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l max. mm	Length to ICE l max. mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® S/E</b>										
For ECG operation and dimmer systems.										
DULUX S/E 5 W/840	5	LUMILUX Cool White	1 B	250	85	85	2G7	10	020150	A
DULUX S/E 5 W/827	5	LUMILUX INTERNA	1 B	250	85	85	2G7	10	017624	A
DULUX S/E 7 W/840	7	LUMILUX Cool White	1 B	400	114	115	2G7	10	020167	A
DULUX S/E 7 W/830	7	LUMILUX Warm White	1 B	400	114	115	2G7	10	591988	A
DULUX S/E 7 W/827	7	LUMILUX INTERNA	1 B	400	114	115	2G7	10	017648	A
DULUX S/E 9 W/840	9	LUMILUX Cool White	1 B	600	144	145	2G7	10	020174	A
DULUX S/E 9 W/830	9	LUMILUX Warm White	1 B	600	144	145	2G7	10	589398	A
DULUX S/E 9 W/827	9	LUMILUX INTERNA	1 B	600	144	145	2G7	10	017655	A
DULUX S/E 11 W/840	11	LUMILUX Cool White	1 B	900	214	215	2G7	10	020181	A
DULUX S/E 11 W/830	11	LUMILUX Warm White	1 B	900	214	215	2G7	10	589374	A
DULUX S/E 11 W/827	11	LUMILUX INTERNA	1 B	900	214	215	2G7	10	017662	A

QUICKTRONIC® electronic control gear.

## ENERGY LABEL FOR LAMPS:

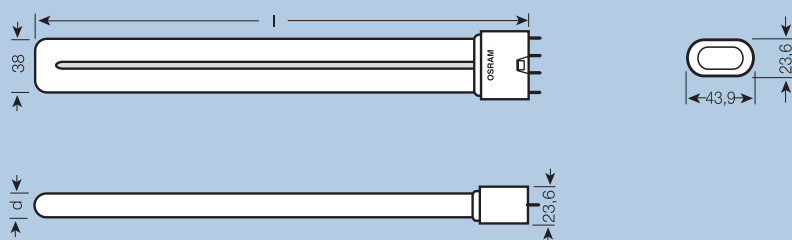


From January 1st 2001 all lamps for domestic use must carry an energy label that indicates the energy efficiency class on a scale of A (very efficient) to G (inefficient).

The luminous flux, wattage and possibly the average rated life of the lamp must also be shown on the label or elsewhere. The energy label must be shown on packaging. Alternatively, the relevant information may be conveyed verbally in catalogues and on other sales material.

# OSRAM DULUX® L

Dimensions in mm



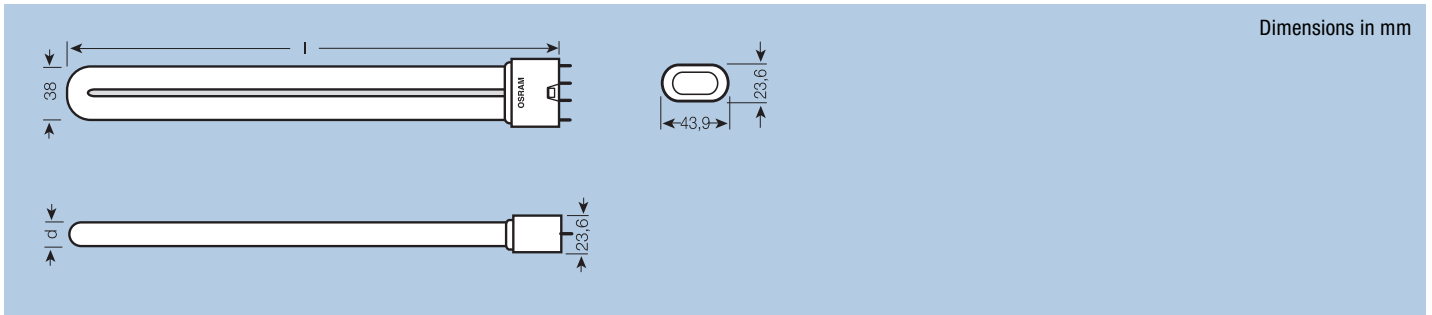
Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l max. mm	Length to IEC max. mm	Tube diameter d mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® L LUMILUX®</b>										For operation with CCG and ECG.	
DULUX L 18 W/840	18	LUMILUX Cool White	1 B	1200	217	225	17,5	2G11	10	010724	B
DULUX L 18 W/830	18	LUMILUX Warm White	1 B	1200	217	225	17,5	2G11	10	010731	B
DULUX L 18 W/827	18	LUMILUX INTERNA	1 B	1200	217	225	17,5	2G11	10	010748	B
DULUX L 24 W/840	24	LUMILUX Cool White	1 B	1800	317	320	17,5	2G11	10	010755	B
DULUX L 24 W/830	24	LUMILUX Warm White	1 B	1800	317	320	17,5	2G11	10	010762	B
DULUX L 24 W/827	24	LUMILUX INTERNA	1 B	1800	317	320	17,5	2G11	10	010779	B
DULUX L 36 W/860	36	LUMILUX Daylight	1 B	2750	411	415	17,5	2G11	10	328263	B
DULUX L 36 W/840	36	LUMILUX Cool White	1 B	2900	411	415	17,5	2G11	10	010786	A
DULUX L 36 W/830	36	LUMILUX Warm White	1 B	2900	411	415	17,5	2G11	10	010793	A
DULUX L 36 W/827	36	LUMILUX INTERNA	1 B	2900	411	415	17,5	2G11	10	010809	A
DULUX L 40 W/860 <sup>1)</sup>	40	LUMILUX Daylight	1 B	3325	533	535	17,5	2G11	10	592008	B
DULUX L 40 W/840 <sup>1)</sup>	40	LUMILUX Cool White	1 B	3500	533	535	17,5	2G11	10	279909	A
DULUX L 40 W/830 <sup>1)</sup>	40	LUMILUX Warm White	1 B	3500	533	535	17,5	2G11	10	298894	A
DULUX L 40 W/827 <sup>1)</sup>	40	LUMILUX INTERNA	1 B	3500	533	535	17,5	2G11	10	322285	A
DULUX L 55 W/860 <sup>1)</sup>	55	LUMILUX Daylight	1 B	4550	533	535	17,5	2G11	10	553900	B
DULUX L 55 W/840 <sup>1)</sup>	55	LUMILUX Cool White	1 B	4800	533	535	17,5	2G11	10	295879	A
DULUX L 55 W/830 <sup>1)</sup>	55	LUMILUX Warm White	1 B	4800	533	535	17,5	2G11	10	298917	A
DULUX L 55 W/827 <sup>1)</sup>	55	LUMILUX INTERNA	1 B	4800	533	535	17,5	2G11	10	315881	A
<b>New</b> DULUX L 80 W/830 <sup>1)</sup>	80	LUMILUX Warm White	1 B	6000	565	565	17,5	2G11	10	665467	B
<b>New</b> DULUX L 80 W/840 <sup>1)</sup>	80	LUMILUX Cool White	1 B	6000	565	565	17,5	2G11	10	665481	B

<b>OSRAM DULUX® L LUMILUX® DE LUXE</b>										For operation with CCG and ECG.	
DULUX L 18 W/950	18	LUMILUX DE LUXE Daylight	1 A	750	217	225	17,5	2G11	10	018423	B
DULUX L 18 W/940	18	LUMILUX DE LUXE Cool White	1 A	750	217	225	17,5	2G11	10	018560	B
DULUX L 18 W/930	18	LUMILUX DE LUXE Warm White	1 A	750	217	225	17,5	2G11	10	018324	B
DULUX L 24 W/950	24	LUMILUX DE LUXE Daylight	1 A	1200	317	320	17,5	2G11	10	018447	B
DULUX L 24 W/940	24	LUMILUX DE LUXE Cool White	1 A	1200	317	320	17,5	2G11	10	018584	B
DULUX L 24 W/930	24	LUMILUX DE LUXE Warm White	1 A	1200	317	320	17,5	2G11	10	018386	B
DULUX L 36 W/950	36	LUMILUX DE LUXE Daylight	1 A	1900	411	415	17,5	2G11	10	018461	B
DULUX L 36 W/940	36	LUMILUX DE LUXE Cool White	1 A	1900	411	415	17,5	2G11	10	018607	B
DULUX L 36 W/930	36	LUMILUX DE LUXE Warm White	1 A	1900	411	415	17,5	2G11	10	018393	B
DULUX L 40 W/950 <sup>1)</sup>	40	LUMILUX DE LUXE Daylight	1 A	2200	533	535	17,5	2G11	10	315799	B
DULUX L 55 W/950 <sup>1)</sup>	55	LUMILUX DE LUXE Daylight	1 A	3000	533	535	17,5	2G11	10	321400	B
DULUX L 55 W/940 <sup>1)</sup>	55	LUMILUX DE LUXE Cool White	1 A	3000	533	535	17,5	2G11	10	197999	B
DULUX L 55 W/930 <sup>1)</sup>	55	LUMILUX DE LUXE Warm White	1 A	3000	533	535	17,5	2G11	10	370705	B

<b>OSRAM DULUX® L NATURA DE LUXE</b>										For operation with CCG and ECG.	
DULUX L 18 W/735	18	NATURA DE LUXE	–	600	217	225	17,5	2G11	10	018478	B
DULUX L 24 W/735	24	NATURA DE LUXE	–	950	317	320	17,5	2G11	10	018546	B
DULUX L 36 W/735	36	NATURA DE LUXE	–	1500	411	415	17,5	2G11	10	018553	B

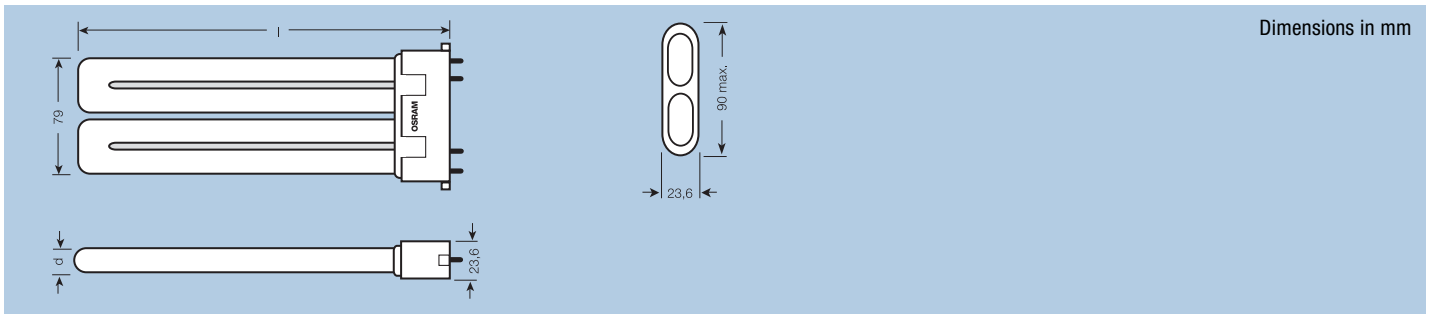
<sup>1)</sup> Only for ECG operation

## OSRAM DULUX® L SP



Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l max. mm	Length to IEC max. mm	Tube diameter d mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® L SP</b>											
For operation with CCG and ECG.											
DULUX L 18 W/830 SP	18	LUMILUX Warm White	1B	1200	209	225	17,5	2G11	10	300276	B
DULUX L 24 W/830 SP	24	LUMILUX Warm White	1B	1800	309	320	17,5	2G11	10	300238	B

## OSRAM DULUX® F



Lamp-reference	Rated wattage of lamp Watt	Light Colour	Colour rendering index (CRI)	Luminous flux lm	Length l max. mm	Length to IEC max. mm	Tube diameter d mm	Base	Start pack pcs	EAN 4050300	Energy label
<b>OSRAM DULUX® F</b>											
For operation with CCG and ECG.											
DULUX F 18 W/-840	18	LUMILUX Cool White	1 B	1100	122	122	17,5	2G10	10	333526	B
DULUX F 18 W/-830	18	LUMILUX Warm White	1 B	1100	122	122	17,5	2G10	10	333540	B
DULUX F 18 W/-827	18	LUMILUX INTERNA	1 B	1100	122	122	17,5	2G10	10	333564	B
DULUX F 24 W/-840	24	LUMILUX Cool White	1 B	1700	165	165	17,5	2G10	10	333588	B
DULUX F 24 W/-830	24	LUMILUX Warm White	1 B	1700	165	165	17,5	2G10	10	333601	B
DULUX F 24 W/-827	24	LUMILUX INTERNA	1 B	1700	165	165	17,5	2G10	10	333625	B
DULUX F 36 W/-840	36	LUMILUX Cool White	1 B	2800	217	217	17,5	2G10	10	299037	B
DULUX F 36 W/-830	36	LUMILUX Warm White	1 B	2800	217	217	17,5	2G10	10	299051	B
DULUX F 36 W/-827	36	LUMILUX INTERNA	1 B	2800	217	217	17,5	2G10	10	312187	B

# TECHNICAL DATA

OSRAM DULUX® lamp Watt	Lamp voltage		Lamp current		System wattage		Lamp reference ECG <sup>2)</sup>	Luminance cd/cm <sup>2</sup>  Colours 827, 830, 840	Compensation Parallel- capacitor <sup>3)</sup> - CCG operation 230V/50Hz µF	Series- capa- citor <sup>4)</sup> CCG operation µF
	at 50/60Hz V	at HF operation V	at 50/60Hz mA	at HF operation mA	CCG operation <sup>1)</sup> W	ECG operation W				
DULUX S 5	35	–	180	–	10	–	–	2,5	2,2	–
DULUX S 7	47/45	–	175/180	–	11	–	–	2,6	2,1	–
DULUX S 9	60/59	–	170/180	–	13	–	–	2,8	2,0	–
DULUX S 11	91/–	–	155/–	–	15	–	–	2,7	1,7	–
DULUX D 10	64	–	190	–	15	–	–	4,0	2,2	1,4
DULUX D 13	91	–	175	–	17	–	–	4,0	1,8	1,4
DULUX D 18	100	–	220	–	23	–	–	4,5	2,2	1,7
DULUX D 26	105	–	325	–	31	–	–	5,5	3,2	2,5
DULUX T 13 PLUS	91	–	175	–	17	–	–	4,2	1,8	1,4
DULUX T 18 PLUS	100	–	225	–	23	–	–	4,7	2,3	1,7
DULUX T 26 PLUS	105	–	325	–	31	–	–	6,0	3,3	2,5
DULUX S/E 5	–	27	–	190	–	7,5	QT-ECO 1x4-16/220-240	2,5	–	–
DULUX S/E 7	–	37	–	175	–	9	QT-ECO 1x4-16/220-240	2,6	–	–
DULUX S/E 9	–	48	–	170	–	12	QT-D/E 1x9-13/230-240	2,8	–	–
DULUX S/E 11	–	75	–	150	–	14	QT-D/E 1x9-13/230-240*	2,7	–	–
DULUX D/E 10	–	51	–	190	–	12	QT-D/E 1x9-13/230-240*	4,0	–	–
DULUX D/E 13	–	77	–	165	–	14	QT-D/E 1x9-13/230-240*	4,0	–	–
DULUX D/E 18	–	80	–	210	–	20	QT-T/E 1x18/230-240*	4,5	–	–
DULUX D/E 26	–	80	–	300	–	27	QT-M 1x26-42/230-240*	5,5	–	–
DULUX T/E 13 PLUS	–	77	–	165	–	14	QT-D/E 1x9-13/230-240*	4,2	–	–
DULUX T/E 18 PLUS	–	80	–	210	–	20	QT-T/E 1x18/230-240*	4,7	–	–
DULUX T/E 26 PLUS	–	80	–	300	–	27	QT-M 1x26-42/230-240*	6,0	–	–
DULUX T/E 32 PLUS	–	100	–	320	–	35	QT-M 1x26-42/230-240*	6,5	–	–
DULUX T/E 42 PLUS	–	135	–	320	–	46	QT-M 1x26-42/230-240*	7,0	–	–
DULUX T/E 57 PLUS	–	182	–	320	–	62	QT-T/E 1x57/230-240*	7,0	–	–
<b>New</b> DULUX T/E 70 PLUS	–	219	–	320	–	77	QT-T/E 1x70/230-240	7,0	–	–
DULUX L 18	58	50	375	320	24	18	QT-M 1x26-42/230-240*	2,1	4,2	2,7
DULUX L 24	87	75	345	300	30	26	QT-M 1x26-42/230-240*	2,1	3,6	2,7
DULUX L 36	106	90	435	360	43	35	QT-M 1x26-42/230-240*	2,8	4,4	3,4
DULUX L 40	–	126	–	320	–	44	QT 1x40/230-240*	2,3	–	–
DULUX L 55	–	101	–	550	–	61	QT 1x55,70/230-240*	3,2	–	–
<b>New</b> DULUX L 80	–	145	–	555	–	86	QT-FQ 1x80/230-240*	3,2	–	–
DULUX F 18	58	50	375	320	24	18	QT-M 1x26-42/230-240*	2,4	4,2	2,7
DULUX F 24	87	75	345	300	29	26	QT-M 1x26-42/230-240*	2,5	3,6	2,7
DULUX F 36	106	90	435	360	43	35	QT-M 1x26-42/230-240*	3,0	4,4	3,4

\* ECG also available in two-lamp version. For detailed technical information see the "Technical Guide".

- 1) Approximate values for low-loss gear – depending on the control gear
- 2) Other OSRAM ECG for OSRAM DULUX lamps (multi-lamp QUICKTRONIC, QUICKTRONIC for outdoor lighting, of the OSRAM indoor and outdoor lighting catalogue)
- 3) Design for  $\cos \phi = 0.95$   
Dielectric strength of the capacitors 250V AC  
Capacitance tolerance + 10 %
- 4) To maintain the specified operating and preheating values, close-tolerance capacitors (+ 2 %) and series compensation. Check the product ranges of leading manufacturers. Dielectric strength of the capacitors 450V AC

## Head office Germany

OSRAM GmbH  
Hellabrunner Strasse 1  
81543 München  
Tel.: +49-89-62 13-0  
Fax: +49-89-62 13-20 20

## International addresses

### Albania

(supported by OSRAM Greece)

### Argentina

OSRAM Argentina S.A.C.I.  
Ramos Mejia 2456  
B 1643 ADN Beccar  
Pcia. De Buenos Aires  
Tel.: +54-11-6333-8000  
Fax: +54-11-6333-8001

### Australia

OSRAM Australia Pty. Ltd. Sydney  
11th Floor, Building 1  
P.O. Box 673  
423 Pennant Hills Road  
2120 New South Wales  
Tel.: +61-29-4 81-83 99  
Fax: +61-29-4 81-94 68

### Austria

OSRAM GmbH  
Lemböckgasse 49/C/5  
1230 Wien  
Postfach 1 62  
1231 Wien  
Tel.: +43-1-6 80 68-0  
Fax: +43-1-6 80 68-7

### Azores

(supported by OSRAM Portugal)

### Belgium

OSRAM N.V.  
Greenhill Campus Haasrode  
Interleuvenlaan 15 C  
3001 Leuven (Heverlee)  
Tel.: +32-2-7 19 29 11  
Fax: +32-2-7 21 40 85

### Bosnia-Herzegovina

(supported by OSRAM Croatia)

### Brazil

OSRAM do Brasil Lâmpadas Elétricas Ltda.  
Av. Dos Autonomistas, 4229  
06090-901 Osasco-SP/Brazil  
Tel.: +55-11-36 84 74 08  
Fax: +55-11-36 85 94 95

### Bulgaria

OSRAM EOOD  
Nikola Obreschkov 1  
Wh. A., App. 1  
1113 Sofia  
Tel.: +359-2-9 71 22 62  
Fax: +359-2-9 71 45 46

### Canada

OSRAM SYLVANIA Ltd./Lte.  
2001 Drew Road  
Mississauga  
Ontario L5S 1S4  
Tel.: +1-905-6 73 61 71  
Fax: +1-905-6 71 55 84

### Chile

OSRAM Chile Ltda.  
Santa Elena de Huechuraba  
1135 B  
Comunade Huechuraba  
Santiago de Chile  
Tel.: +56-2-7 40-09 39  
Fax: +56-2-7 40-04 66

### China

OSRAM Foshan Lighting Co. Ltd.  
No.1 North Industrial Road,  
Postal Code 528000  
Foshan, Guangdong  
Tel.: +86-757-864 82-111  
Fax: +86-757-864 82-222

OSRAM Shanghai Rep. Office  
Harbour Ring Plaza  
No. 18 Xi Zang Middle Road  
Room 2802, 2803 A  
Shanghai, 200001 P.R.C.  
Tel.: +86-21-53 86 28-48  
Fax: +86-21-64 86 12-19

### Colombia

OSRAM de Colombia  
Diagonal 109 No. 21-05  
Oficina 607, 608  
Bogotá  
Tel.: +57-1-6 19 24 07  
Fax: +57-1-6 37 18 55

### Croatia

OSRAM d.o.o.  
Majstora Radonje 10  
10000 Zagreb  
Tel.: +385-1-303-20 00  
Fax: +385-1-303-20 01

### Czechia

OSRAM spol. s.r.o.  
Kodanska 1441/46  
100 10 Praha 10  
Tel.: +420-234 06 60 00  
Fax: +420-234 06 60 20

### Denmark

OSRAM A/S  
Dybendalsvænget 3  
2630 Tåstrup  
Postboks 259  
2630 Tåstrup  
Tel.: +45-44-77 50-00  
Fax: +45-44-77 50-55

### Egypt

OSRAM Rep. Office Cairo  
5th Floor, Unit No. 507  
57 Giza Street  
Cairo, Giza  
Tel.: +20-2-7 48 66 46  
Fax: +20-2-7 48 66 46

### Ecuador

OSRAM del Ecuador S.A.  
Casilla 09-01-8410  
Guayaquil  
Tel.: +593-4-2 89 36 09  
Fax: +593-4-2 89 35 58

### Estonia

(supported by OSRAM Finland)

### Finland

Oy OSRAM AB, Helsinki  
Vanha Porvoontie 229  
01380 Vantaa  
Box 91  
01301 Vantaa  
Tel.: +358-9-74 22 33 00  
Fax: +358-9-74 22 33 74

### France

OSRAM SASU  
5, Rue d'Altorf  
67124 Molsheim  
BP 1 09  
67124 Molsheim  
Tel.: +33-388-49 75 99  
Fax: +33-388-49 75 975

### Great Britain

OSRAM Ltd., London  
OSRAM House  
Waterside Drive  
Langley, Berkshire  
SL3 6EZ  
Tel.: +44-17 53 48 41 00  
Fax: +44-17 53 48 42 22

### Greece

OSRAM A.E.  
Frantzi 6 & Ag. Pavlon  
12132 Peristeri  
Tel.: +30-210-5 20 18 00  
Fax: +30-210-5 22 72 00

### Hong Kong

OSRAM Prosperity Co. Ltd.  
Rm 4007-09 Office Tower  
Convention Plaza  
1 Harbour Road, Wanchai  
Tel.: +852-25 11 22 68  
Fax: +852-25 11 20 38

### Hungary

OSRAM KFT.  
Alkotás utca 41.  
1123 Budapest  
Tel.: +36-1-2 25-30 55  
Fax: +36-1-2 25-30 54

### India

OSRAM India Ltd.  
Signature Towers, 11th Floor,  
Tower-B South City-I  
122001 Gurgaon Haryana/India  
Tel.: +91-124-238 31-80  
Fax: +91-124-238 31-82

### Indonesia

PT. OSRAM Indonesia  
Jalan Siliwangi KM 1  
Desa Keroncong  
Jatiuwung  
15134 Tangerang  
Tel.: +62-21-5 90 01 27  
Fax: +62-21-5 90 05 59

### Iran

OSRAM Lamps  
OSRAM PJS Co.  
Bokharest Ave, Str. 6, No. 13  
Tehran  
Tel.: +98-21-8 73 84 76  
Fax: +98-21-8 73 24 13

### Italy

OSRAM Società Riunite  
OSRAM Edison-Clerici Spa  
Via Savona 105  
20144 Milano  
Tel.: +39-02-42 49-1  
Fax: +39-02-42 49-380

### Japan

OSRAM MELCO Ltd.  
Tobu Yokohama Bldg.No. 3 (4F)  
8-29 Kita-Saiwai 2-chome, Nishi-Ku  
220-0004 Yokohama  
Tel.: +81-45-3 23 51-20  
Fax: +81-45-3 23 51-55

### OSRAM Ltd.

Tobu Yokohama Bldg.No. 3 (6F)  
8-29 Kita-Saiwai 2-chome, Nishi-Ku  
220-0004 Yokohama  
Tel.: +81-45-3 23 51-00  
Fax: +81-45-3 23 51-10

### Korea

OSRAM Korea Co. Ltd.  
3rd. Fl. Ye-Sung Bldg.  
150-30 Samsung-dong, Kangnam-Ku  
Seoul 135-090  
Tel.: +82-2-5 54 41 12  
Fax: +82-2-5 56 16 44

### Latvia

(supported by OSRAM Finland)

### Lithuania

(supported by OSRAM Finland)

### Macedonia

(supported by OSRAM Greece)

### Madeira

(supported by OSRAM Portugal)

### Malaysia

OSRAM Sdn Bhd  
7.05-7.06 Amoda Building  
22 Jalan Imbi  
55100 Kuala Lumpur  
Tel.: +60-3-21 45 95-33  
Fax: +60-3-21 45 95-35

### Mexico

OSRAM de México, S.A. de C.V.  
Camino a Tepalcapa No. 8  
Col. San Martin  
54900 Tultitlan  
Edo. de México  
Tel.: +52-55-58 99-18 00  
Fax: +52-55-58 84-65 60

### Netherlands

OSRAM Nederland B.V.  
Vennootsweg 15  
2404 CG Alphen a/d Rijn  
Postbus 3 32  
2400 Alphen a/d Rijn  
Tel.: +31-172-48 38 38  
Fax: +31-172-44 30 25

### Norway

OSRAM AS  
Strandveien 50  
1366 Lysaker  
Tel.: +47-67 83 67-00  
Fax: +47-67 83 67-40

### Philippines

OSRAM Philippines Ltd. Corp.  
Unit 2002-2003  
Antel Global Corporate Center  
Julia Vargas Avenue  
Ortigas Center  
Pasig City  
Tel.: +632-687 60 48-50  
Fax: +632-687 60 57

### Poland

OSRAM sp. z o.o.  
ul. Wiertnicza 117  
02292 Warszawa  
Tel.: +48-22-6 51 78 69  
Fax: +48-22-6 42 14 18

### Portugal

OSRAM Empresa de  
Aparelhagem Elétrica Lda.  
Rua do Alto do Montijo  
Nr. 15-4 andar  
2795-619 Carnaxide  
Tel.: +351-2 14 16 58 60  
Fax: +351-2 14 17 12 59

### Romania

OSRAM Romania S.R.L.  
Sos. Pipera 41 Sector 2  
7000 Romania/Bucaresti  
Tel.: +40-21-2 33 02-12  
Fax: +40-21-2 33 02-14

### Russia

OSRAM Moscow  
Ul. Malaja Kaluschskaja 15/4  
117071 Moscow  
Tel.: +7-095-9 35 70-70  
Fax: +7-095-9 35 70-76

### Singapore

OSRAM Pte. Ltd.  
159 Sin Ming Road  
#05-04 Amtech Building  
575625 Singapore  
Tel.: +65-65 52 01 10  
Fax: +65-65 52 71 17

### Slovakia

OSRAM Slovakia a.s.  
Komárnanská cesta 7  
94093 Nové Zámky  
Tel.: +42-1-35 64 64-0  
Fax: +42-1-35 64 64-883

### Slovenia

(supported by OSRAM Austria)

### South Africa

OSRAM (Pty.) Ltd.,  
260, 15th Road  
1683 Randjespark/Midrand  
Private BAG X 206  
1685 Halfway House/Midrand  
Tel.: +27-11-2 07 56 00  
Fax: +27-11-8 05 17 11

### Spain

OSRAM, S.A.  
Calle de la Solana, 47  
28850 Torrejón de Ardoz (Madrid)  
Tel.: +34-91-6 55 52 00  
Fax: +34-91-6 56 82 16

### Sweden

OSRAM AB  
Rudanvägen 1  
13625 Haninge  
Box 5 04  
13625 Haninge  
Tel.: +46-8-7 07 44-00  
Fax: +46-8-7 07 44-40

### Switzerland

OSRAM AG, Winterthur  
In der Au 6  
8401 Winterthur/Töss  
Postfach 2179  
8401 Winterthur/Töss  
Tel.: +41-52-2 09 91 91  
Fax: +41-52-2 09 99 99

### Taiwan

OSRAM Taiwan Company Ltd.  
Sung Chiang Road, 7th Floor, No. 87  
Sug Ching Road  
P.O. Box 46304  
Taipei - Taiwan, R.O.C.  
Tel.: +886-2-25 08 35 02  
Fax: +886-2-25 09 67 82

### Thailand

OSRAM Thailand Co. Ltd.  
100/45, 24th Floor  
Sathorn Nakorn Tower  
North Sathorn Road  
Khwaeng Silom  
Khet Bangrak, Bangkok 10500  
Tel.: +66-2-6 36 74 75  
Fax: +66-2-6 36 74 77

### Turkey

OSRAM AMPUL TIC. A.S.  
Meclisi Mebusan Caddesi 125  
80400 Findikli, Istanbul/TR  
Tel.: +90-212-334-1334  
Fax: +90-212-334-1142

### Ukraine

OSRAM Rep. Office  
ul. Vorovskogo, 36  
01054 Kiev/Ukraine  
Tel.: +380-44-2 46 93 14  
Fax: +380-44-2 46 99 91

### United Arab Emirates

OSRAM Middle East FZE  
P.O. Box 17476  
Room #602-603, LOB #16  
Jebel Ali Free Zone  
Dubai United Arab Emirates  
Tel.: +971-4-88 13-767  
Fax: +971-4-88 13-769

### USA

OSRAM SYLVANIA INC.  
100 Endicott Street  
Danvers, MA 01923  
Tel.: +1-978-777-19 00  
Fax: +1-978-750-21 52

### Vietnam

OSRAM Singapore Pte. Ltd.  
Rep. Office Vietnam  
59A Ly Thai To Street,  
Hanoi Press Club  
Hoan Kiem District  
Hanoi  
Tel.: +84-4-93 49-801  
Fax: +84-4-93 49-803

### Yugoslavia

Rep. Office of OSRAM GmbH  
Predstavništvo OSRAM GmbH  
Čika Ljubina 15/V  
11000 Beograd  
Tel.: +381-11-30 30-860  
Fax: +381-11-30 30-853

### Internet

http://www.osram.de  
http://www.osram.com  
http://catalog.myosram.com/DE  
http://catalog.myosram.com/EN