

OSRAM DULUX® – promising a more efficient future.

Average life of up to 36,000 hours: optimized OSRAM DULUX® compact fluorescent lamps with plug-in bases.

SEE THE WORLD IN A NEW LIGHT

OSRAM



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YOU – the reason we keep developing better and better solutions.

Optimized OSRAM DULUX® compact fluorescent lamps with pin bases make your work more efficient in two ways. First, because they are now arranged in three product groups so you can find the right light source more easily. And second, because their improved performance will impress your customers. The improvements relate generally to the longer average life of the lamps. But our engineers have also succeeded once more in achieving some real highlights – innovative compact fluorescent lamps that offer impressive performance in their specific applications.

INFO – information can always be shortened.

The improvements to the OSRAM DULUX® packaging make it even easier now to see all the relevant information at a glance. Pictograms are used so the product information is clear and easy to understand. With its new packaging OSRAM is also helping to protect the environment. The packaging materials are recyclable card and paper, and only solvent-free inks and dispersion coatings are used. That's how to pack information.



LIFE OF
UP TO 36.000
HOURS¹

The top performers.

There are places where you need more than just a good lamp. Places where light is more than just light. Places where lifetime, color rendering, ambient temperature, lighting design and economy are of particular importance. Discover pioneering technologies so you can set new standards for your customers.

Outstanding durability:

OSRAM DULUX® D/E XT
OSRAM DULUX® T/E XT
OSRAM DULUX® L XT

Excellent color rendering:

OSRAM DULUX® L LUMILUX®
DE LUXE

Impressive economy:

OSRAM DULUX® L HE
OSRAM DULUX® T/E HE

Extreme temperature requirements:

OSRAM DULUX® L SP
OSRAM DULUX® L CONSTANT
OSRAM DULUX® T/E CONSTANT

Sophisticated lighting design:

OSRAM DULUX® L COLORED
OSRAM DULUX® S COLORED

LIFE OF
UP TO 20.000
HOURS¹

The advanced lamps.

Rising energy costs are leading to greater demand for lighting systems that offer greater economy. But as customers are becoming more aware of energy efficiency, they are also demanding better quality of light. These demands may seem contradictory but our advanced compact fluorescent lamps provide impressive proof that this is not the case. For lighting that needs to meet tomorrow's demands today.

Efficient quality of light:

OSRAM DULUX® S/E
OSRAM DULUX® D/E
OSRAM DULUX® T/E PLUS
OSRAM DULUX® L

Unconventionally efficient:

OSRAM DULUX® D ES

LIFE OF
UP TO 10.000
HOURS¹

The practical lamps.

Often the simplest solution is the best. If there are no special lighting requirements that have to be met then the standard product is perfectly adequate. You just need to make sure it's a product of the highest standard – otherwise you'll notice the first signs of dwindling light after only a few thousand hours of operation. With OSRAM DULUX® you have a product on which you can rely.

Simply convincing:

OSRAM DULUX® S
OSRAM DULUX® D
OSRAM DULUX® T PLUS
OSRAM DULUX® F
OSRAM CFL SQUARE®

¹See page 19.

XT – a sign of quality for an average life of up to 36,000 hours.

NEW

Luminaires in locations that are difficult to access need lamps that offer exceptionally long life. With the OSRAM DULUX® XT series, OSRAM has succeeded in creating lamps that offer an average life of up to 36,000 hours. Wherever a luminaire may be located, OSRAM has the answer to the challenge: OSRAM DULUX® XT.



OSRAM DULUX® D/E XT.

Benefits/properties:

- Longer maintenance cycle thanks to the extremely long average life (up to 36,000 hours¹)
- Much lower total cost of ownership, comprising investment, maintenance and relamping costs
- Compact or very short design for miniaturized luminaires with small mounting depths
- Wattages 18W, 26W

Applications:

- Luminaires that are difficult to access, and general illumination with long daily operating times
- Hotels, shops, offices, schools, public buildings, hospitals, corridors, stairwells, concourses



OSRAM DULUX® T/E XT.

Benefits/properties:

- Longer maintenance cycle thanks to the extremely long average life (up to 36,000 hours¹)
- Much lower total cost of ownership, comprising investment, maintenance and relamping costs
- Approx. two thirds the length of an OSRAM DULUX® D/E XT of the same wattage
- Wattages 32W, 42W

Applications:

- Luminaires that are difficult to access, and general illumination with long daily operating times
- Hotels, shops, offices, schools, public buildings, hospitals, corridors, stairwells, concourses



OSRAM DULUX® L XT.

Benefits/properties:

- Longer maintenance cycle thanks to the extremely long average life (up to 36,000 hours¹)
- Much lower total cost of ownership, comprising investment, maintenance and relamping costs
- Same luminous flux and power consumption as fluorescent tubes but less than half the length and more compact than U-shaped and circular lamps
- 18W, 24W, 36W versions can also be used with a CCG; 55W only with an ECG

Applications:

- Luminaires that are difficult to access, and general illumination with long daily operating times
- Offices, schools, concourses, airports, rail stations, sports halls, roads, factories, warehouses, supermarkets, hospitals

¹See page 19.



DE LUXE – excellent color rendering and even higher luminous flux.

As a lighting professional there is only one reference for color rendering – and that's natural light. To meet the highest demands you need lamps that are closer to the sun than man will ever be.



$R_a \geq 90$

ECG
CCG

OSRAM DULUX® L
LUMILUX® DE LUXE.

Benefits/properties:

- Excellent color rendering: $R_a \geq 90$
- Up to 34% higher luminous flux than previous OSRAM DULUX® L LUMILUX® DE LUXE lamps
- Long average life: up to 20,000 hours¹
- 18W, 24W, 36W versions can also be used with a CCG; 40W and 55W only with an ECG

Applications:

- Interior lighting with high color rendering requirements
- General illumination for shops, textile industry, printing works, etc.



¹See page 19.

HE – the highly efficient shorthand for light.


 NEW

For new installations great importance is attached not only to high quality of light but also to economy. The OSRAM DULUX® HE series will give you up to 100 lumen from every watt, keep installation costs as low as possible and increase the relamping intervals thanks to the long life of these lamps. Use the light that pays for itself.



 HIGH
EFFICIENCY


 ECG

OSRAM DULUX® L HE.

Benefits/properties:

- Extremely efficient: 100 lm/W¹
- Long average life: up to 20,000 hours²
- Selected types can be dimmed³
- Operated with QUICKTRONIC® for T5 (QTi DALI, QTi DIM, QTi, QTP5)
- Base: 2GX11
- Wattages 16W, 22W, 26W, 28W

Applications:

- Optimized for indoor lighting as maximum luminous flux is at an ambient temperature of +35 °C
- For direct and indirect lighting
- Shops, hotels, offices, schools, industry, public buildings



 HIGH
EFFICIENCY


 ECG

OSRAM DULUX® T/E HE.

Benefits/properties:

- Higher luminous efficacy: up to +32 % lm/W¹ compared with conventional OSRAM DULUX® D/E lamps
- Long average life: up to 20,000 hours²
- Dimming: 14W, 17W can be dimmed to 3% with QT DALI DIM devices
- Simple handling thanks to new GR14q-1 base (reduces the risk of damage to the luminaire reflector during relamping for example)
- Wattages 11W, 14W, 17W

Applications:

- Optimized for indoor lighting as maximum luminous flux is at an ambient temperature of +35 °C
- Shops, hotels, offices, restaurants, public buildings, emergency lighting



¹At an ambient temperature of +35 °C.

²See page 19.

³28W can be dimmed to 3%; 16W, 22W and 26W currently in the release process.

Special applications – constant performance.

Special temperature conditions call for special lamps. OSRAM has developed a family of lamps to meet special challenges – OSRAM DULUX® L SP, OSRAM DULUX® L CONSTANT and OSRAM DULUX® T/E CONSTANT. In narrow downlights or in outdoor fittings, these OSRAM DULUX® lamps produce their optimum luminous flux at a low ambient temperature or a constant high luminous flux almost irrespective of the ambient temperature. OSRAM DULUX® – equipped for extreme demands.

  	  	  
<p>OSRAM DULUX® L SP.</p>	<p>OSRAM DULUX® L CONSTANT.</p>	<p>OSRAM DULUX® T/E CONSTANT¹.</p>
<p>Benefits/properties:</p> <ul style="list-style-type: none"> • OSRAM DULUX® L version for low ambient temperatures • Maximum luminous flux at an ambient temperature of +5 °C • Long average life: up to 20,000 hours² • Can be dimmed with appropriate ECGs • Wattages 18W, 24W, 36W 	<p>Benefits/properties:</p> <ul style="list-style-type: none"> • OSRAM DULUX® L version for high and low ambient temperatures • Amalgam technology enables the lamp to operate with a luminous flux greater than 90% in an ambient temperature range of +5 °C to +70 °C • Long average life: up to 20,000 hours² • Can be dimmed with appropriate ECGs • Wattages 40W, 55W, 80W 	<p>Benefits/properties:</p> <ul style="list-style-type: none"> • OSRAM DULUX® T/E version for high and low ambient temperatures • Amalgam technology enables the lamp to operate with a luminous flux greater than 90% in an ambient temperature range of +10 °C to +70 °C • Long average life: up to 20,000 hours² • Can be dimmed with appropriate ECGs • Wattages 26W, 32W, 42W
<p>Applications:</p> <ul style="list-style-type: none"> • Indoor lighting: cold rooms, cold stores • Outdoor lighting: streets, car parks, tunnels 	<p>Applications:</p> <ul style="list-style-type: none"> • Indoor and outdoor lighting • Narrow luminaires with high temperatures • Outdoor lighting: streets, car parks, tunnels 	<p>Applications:</p> <ul style="list-style-type: none"> • Indoor and outdoor lighting • Narrow luminaires with high temperatures • Outdoor lighting: streets, car parks, tunnels

¹ OSRAM DULUX® T/E CONSTANT replaces OSRAM DULUX® T/E IN PLUS.

² See page 19.

Special applications – for sophisticated lighting design.

Unusual accents and modern lighting design: OSRAM DULUX® L and OSRAM DULUX® S are ideal for creative lighting design. OSRAM DULUX® L lamps produce a pleasant economical light for blue accents both indoors and outdoors. OSRAM DULUX® S lamps can illuminate interiors in different colors with no compromise on lighting comfort.



ECG
CCG

OSRAM DULUX® L COLORED.

Benefits/properties:

- Special color: blue
- Low system costs
- Long average life: up to 20,000 hours¹
- Operated with CCGs or ECGs
- Dimmable
- Wattage 24 W

Applications:

- The ideal cost-effective solution for creative illumination and decoration
- Colored lighting for architecture: shopping centers, hotels, public buildings



CCG

OSRAM DULUX® S COLORED.

Benefits/properties:

- Special colors: red, green, blue
- Low system costs
- Average life: up to 10,000 hours¹
- CCG operation
- Wattage 9 W

Applications:

- The ideal cost-effective solution for creative illumination and decoration
- Colored accent light in display cabinets
- For orientation lights (e.g. stairs)



¹See page 19.



S/E, D/E, T/E, L – long life comes in different guises.

With lamps achieving an average life of up to 20,000 hours, OSRAM offers you products not just with impressive durability but also with excellent efficiency. ECG operation ensures reliability, economy and improved quality of light. With so many positives your customers cannot lose.



OSRAM DULUX® S/E.

Benefits/properties:

- Long average life: up to 20,000 hours¹
- Small dimensions, extremely slim
- Excellent economy² and comfortable light thanks to ECG operation
- Dimmable
- Wattages 7 W, 9 W, 11 W

Applications:

- Compact luminaires with shallow mounting depth
- Shop lighting, hotel and restaurant lighting, lighting for industry, trade and commerce, office lighting, public buildings, emergency lighting



OSRAM DULUX® D/E.

Benefits/properties:

- Long average life: up to 20,000 hours¹
- Twice the luminous flux and the same length as OSRAM DULUX® S/E
- Excellent economy² and comfortable light thanks to ECG operation
- Dimmable
- Wattages 10 W, 13 W, 18 W, 26 W

Applications:

- Compact luminaires with shallow mounting depth
- Shop lighting, hotel and restaurant lighting, lighting for industry, trade and commerce, office lighting, public buildings, emergency lighting



OSRAM DULUX® T/E PLUS.

Benefits/properties:

- Long average life: up to 20,000 hours¹
- Approx. two thirds the length of an OSRAM DULUX® D/E of the same wattage
- Excellent economy² and comfortable light thanks to ECG operation
- Dimmable
- Wattages 13 W, 18 W, 26 W, 32 W, 42 W

Applications:

- Compact luminaires with shallow mounting depth
- Shop lighting, hotel and restaurant lighting, lighting for industry, trade and commerce, office lighting, public buildings, emergency lighting

¹See page 19.

²Low installation, energy and relamping costs.



ECG
CCG

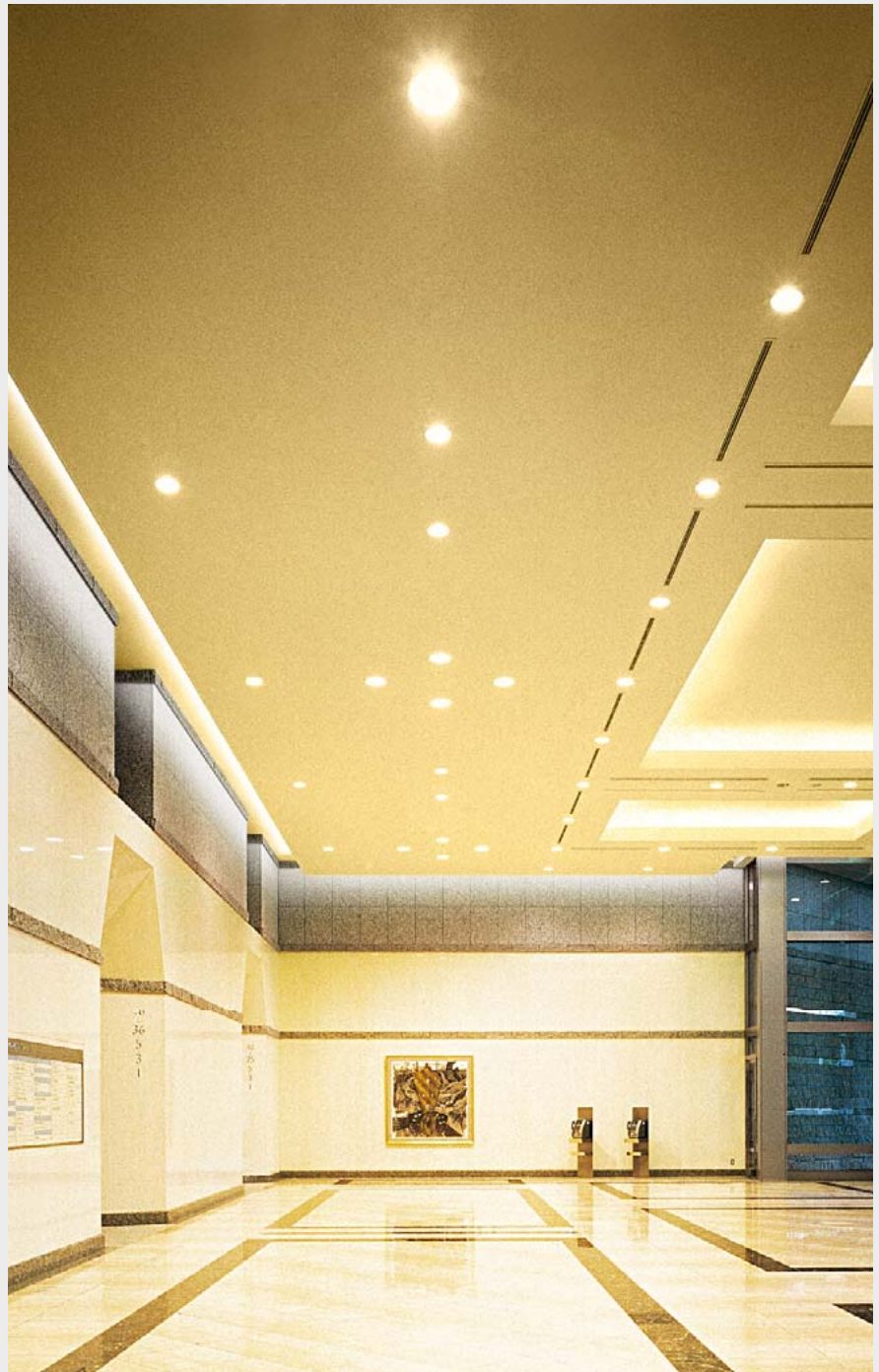
OSRAM DULUX® L.

Benefits/properties:

- Long average life: up to 20,000 hours¹
- Same luminous flux and power consumption as fluorescent tubes but less than half the length and more compact than U-shaped and circular lamps
- Excellent economy² and comfortable light thanks to ECG operation
- Dimmable
- Wattages 18 W, 24 W, 36 W, 40 W, 55 W, 80 W; 18 W, 24 W, 36 W versions can also be used with a CCG

Applications:

- Ideal for new short-run luminaires
- For rectangular, square and round ceiling and wall luminaires
- Shop lighting, hotel and restaurant lighting, lighting for industry, trade and commerce, office lighting, public buildings



¹See page 19.

²Low installation, energy and relamping costs.

D ES – the conventional term for green technology.



If you are looking to save energy you do not have to install a completely new lighting system. Even in existing systems with conventional control gear it is possible to reduce energy consumption by 10% with OSRAM DULUX® D ES lamps.



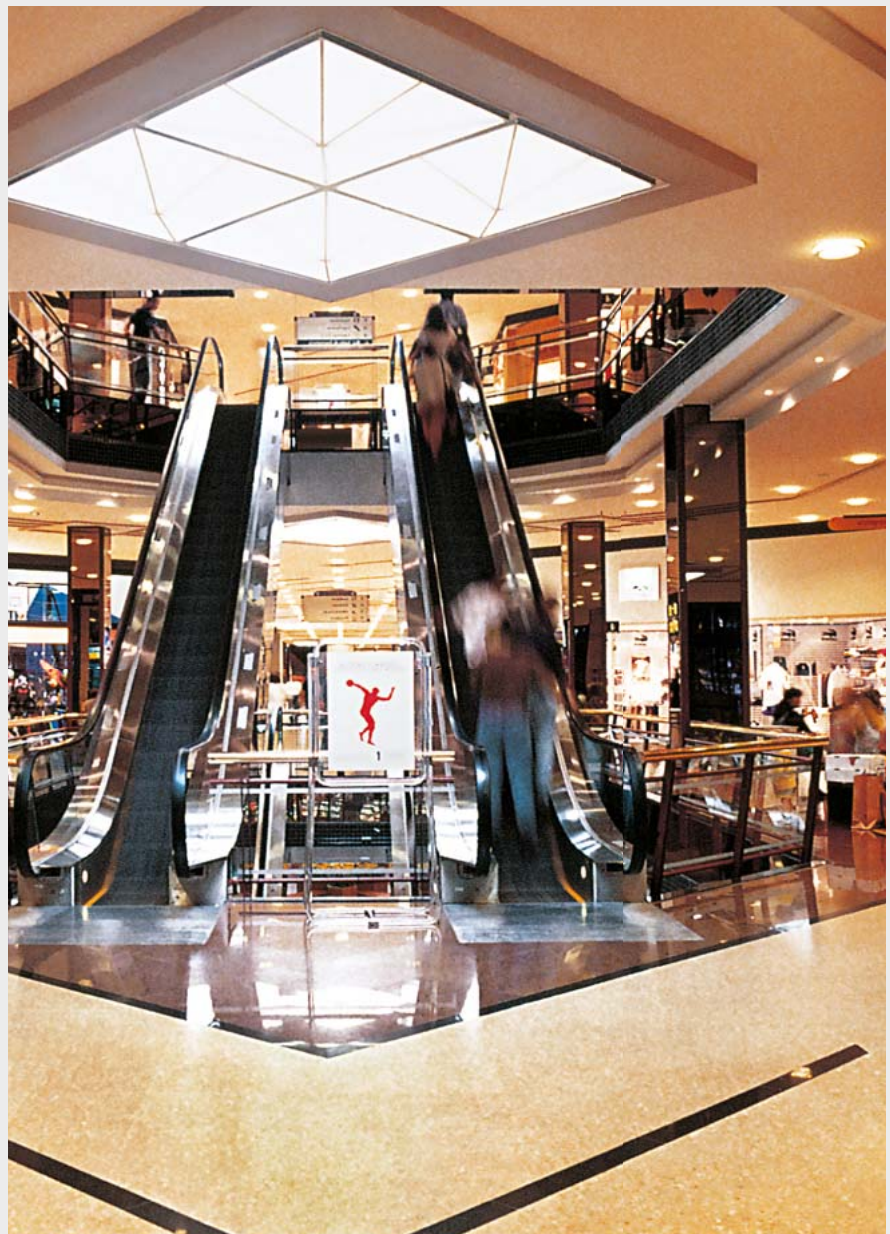
OSRAM DULUX® D ES.

Benefits/properties:

- More efficient: 16W and 23W versions replace OSRAM DULUX® D 18W and 26W in indoor applications
- Energy and cost savings: up to 10% lower lamp power
- Calculate the payback time at www.osram.com/light-consultant
- Fast relamping: simple direct replacement (identical base)
- Average life: up to 10,000 hours¹
- Wattages 16W, 23W

Applications:







- Existing indoor lighting systems for OSRAM DULUX® D 18W, 26W
- Miniature luminaires and downlights with shallow mounting depth
- Not suitable for outdoor lighting and not suitable for indoor lighting with an ambient temperature less than +15 °C



¹See page 19.

S, D, T – stands for standard, durable and trusted.

Not everyone places the highest demands on a lighting system. Often all you need is good standard equipment to meet your customers' needs. But even these customers will not say "no" if you offer them lower electricity bills, impressive quality of light, exemplary reliability and long lamp life.

		
		
<p>OSRAM DULUX® S.</p>	<p>OSRAM DULUX® D.</p>	<p>OSRAM DULUX® T PLUS.</p>
<p>Benefits/properties:</p> <ul style="list-style-type: none"> • Average life: up to 10,000 hours¹ • Small dimensions, extremely slim • Wattages 5W, 7W, 9W, 11W 	<p>Benefits/properties:</p> <ul style="list-style-type: none"> • Average life: up to 10,000 hours¹ • Twice the luminous flux and the same length as OSRAM DULUX® S • Wattages 10W, 13W, 18W, 26W 	<p>Benefits/properties:</p> <ul style="list-style-type: none"> • Average life: up to 10,000 hours • Approx. two thirds the length of an OSRAM DULUX® D of the same wattage • Wattages 13W, 18W, 26W
<p>Applications:</p> <ul style="list-style-type: none"> • Compact luminaires with shallow mounting depth • Stairs, entrances, floor lights, orientation lights, gardens 	<p>Applications:</p> <ul style="list-style-type: none"> • Compact luminaires with shallow mounting depth • Offices, halls, foyers, entrances 	<p>Applications:</p> <ul style="list-style-type: none"> • Compact luminaires with shallow mounting depth • Offices, halls, foyers, entrances

¹See page 19.

ECG – the start of every lighting plan.

OSRAM has the right solution for every concept. In choosing compact fluorescent lamp you have opted for extremely economical light sources. Operated with electronic control gear, the lamps come on without flickering and provide a constant flickerfree light with no stroboscopic effects. ECGs – efficient, versatile and durable.

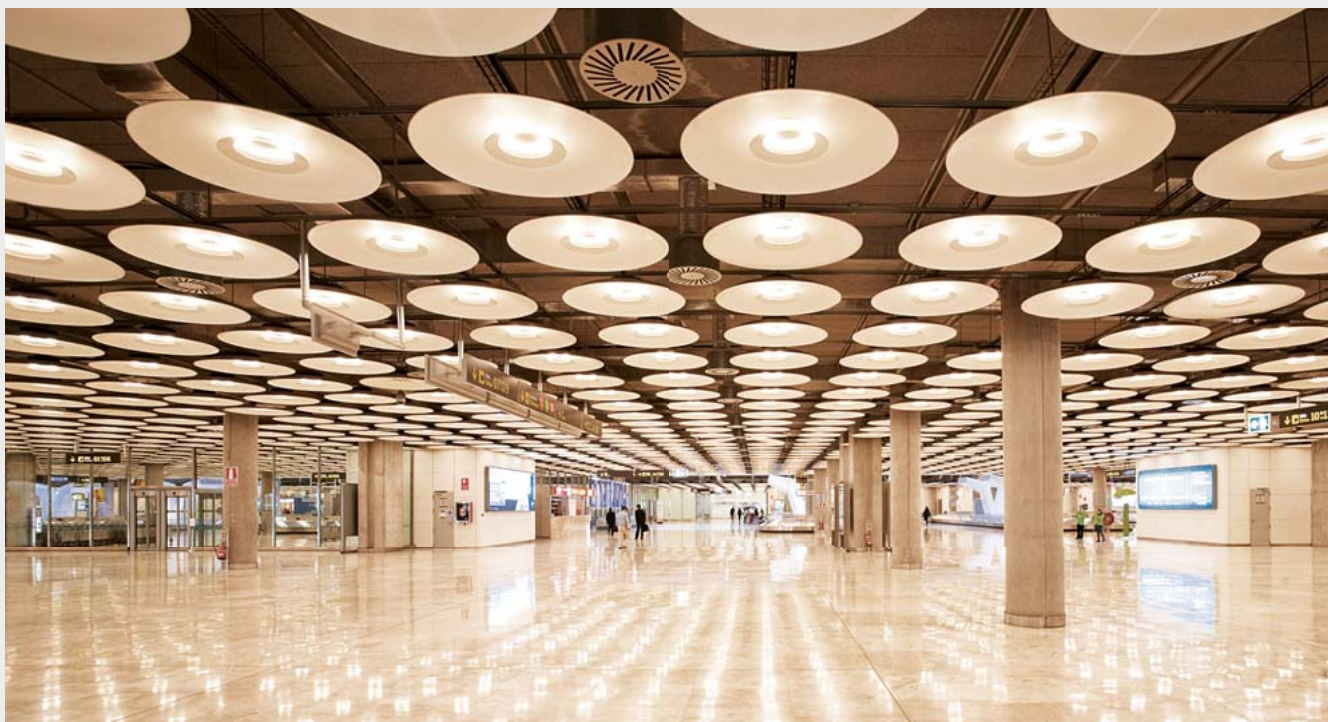


QUICKTRONIC® PROFESSIONAL MULTIWATT.

This family of ECGs is ideal for optimum operation of different wattages and lamp types. The flexible use of only a few QUICKTRONIC® PROFESSIONAL MULTIWATT types enables warehouse stocks to be reduced to a minimum and cuts the cost of product planning, logistics and production.

QUICKTRONIC® INTELLIGENT QT DALI DIM.

QT DALI DIM is the perfect solution for example for integrating dimmable luminaires in offices with daylight-dependent lighting control, in conference rooms with situation-dependent lighting control and at PC/CAD workstations with individual adjustment of the lighting level.



QUICKTRONIC® PROFESSIONAL DL.

Thanks to optimum operation of the lamps and maximum reliability, QUICKTRONIC® PROFESSIONAL DL is the ideal ECG for operating OSRAM DULUX® L and F compact fluorescent lamps. Available with geometries appropriate to the length of the lamp and with typical PROFESSIONAL properties such as high energy efficiency thanks to Cut-Off technology, QTP-DL is suitable for a wide range of applications.

QUICKTRONIC® QT-T/E HE and QT DALI-T/E DIM HE.

Efficient, reliable, rugged and dimmable (in the DALI versions), QUICKTRONIC® for OSRAM DULUX® T/E HE – QT-T/E HE (for 11–17 W) and QT DALI-T/E DIM HE (for 14–17 W) – are the contemporary ECGs for operating advanced OSRAM DULUX® T/E 11 W, 14 W and 17 W lamps in modern, compact and highly efficient luminaires.

RECOMMENDED CONTROL GEAR FOR AN AVERAGE LIFE OF UP TO 20,000 HOURS

Lamp	OSRAM ECG
S/E 7W	QT-T/E 1x14-17 HE QTP-D/E 2x10-13
S/E 9W, S/E 11W	QTP-D/E 1x10-13 QTP-D/E 2x10-13
D/E 10W	QTP-D/E 1x10-13 QTP-D/E 2x10-13
D/E 13W	QTP-D/E 1x10-13 QTP-D/E 2x10-13
T/E 13W PLUS	QTP-D/E 1x10-13 QTP-D/E 2x10-13
T/E 11W HE, T/E 14W HE, T/E 17W HE	QT-T/E 1x14-17 HE QT-T/E 2x14-17 HE QT DALI-T/E 1x14-17 DIM HE QT DALI-T/E 2x14-17 DIM HE
D/E 18W, T/E 18W PLUS	QTP-T/E 1x18 QTP-T/E 2x18 QTi DALI-T/E 1x18-57/220-240 DIM QTi DALI-T/E 2x18-42/220-240 DIM QTi-T/E 1x18-57/220-240 DIM QTi-T/E 2x18-42/220-240 DIM
D/E 26W, T/E 26W PLUS, T/E 26W CONSTANT	QTP-M 1x26-42 QTP-M 2x26-32 QT-M 2x26-42/220-240 QTi DALI-T/E 1x18-57/220-240 DIM QTi DALI-T/E 2x18-42/220-240 DIM QTi-T/E 1x18-57/220-240 DIM QTi-T/E 2x18-42/220-240 DIM
T/E 32W PLUS, T/E 32W CONSTANT	QTP-M 1x26-42 QTP-M 2x26-32 QT-M 2x26-42/220-240 QTi DALI-T/E 1x18-57/220-240 DIM QTi DALI-T/E 2x18-42/220-240 DIM QTi-T/E 1x18-57/220-240 DIM QTi-T/E 2x18-42/220-240 DIM
T/E 42W PLUS, T/E 42W CONSTANT	QTP-M 1x26-42 QT-M 2x26-42/220-240 QTi DALI-T/E 1x18-57/220-240 DIM QTi DALI-T/E 2x18-42/220-240 DIM QTi-T/E 1x18-57/220-240 DIM QTi-T/E 2x18-42/220-240 DIM
L 18W, L 18W SP	QTi DALI 1x18/220-240 DIM QTi DALI 2x18/220-240 DIM QTi DALI 3x18/220-240 DIM QTi DALI 4x18/220-240 DIM QTi 1x18/220-240 DIM QTi 2x18/220-240 DIM QTi 3x18/220-240 DIM QTi 4x18/220-240 DIM QTi 1x14/24/21/39 QTi 2x14/24/21/39 QTP-DL 1x18-24 QTP-DL 2x18-24 QTP-M 1x26-42/220-240 S QTP-M 2x26-32/220-240 S

Lamp	OSRAM ECG
L 24W, L 24W SP	QTi DALI 1x14/24 DIM QTi DALI 2x14/24 DIM QTi DALI 3x14/24 DIM QTi DALI 4x14/24 DIM QTi 1x14/24 DIM QTi 2x14/24 DIM QTi 3x14/24 DIM QTi 4x14/24 DIM QTi 1x14/24/21/39 QTi 2x14/24/21/39 QTP-DL 1x18-24 QTP-DL 2x18-24 QTP-M 1x26-42/220-240 S QTP-M 2x26-32/220-240 S QT-M 2x26-42/220-240 S
L 16W HE, L 22W HE, L 26W HE	in preparation
L 28W HE	QTP5 1x14-35 QTP5 2x14-35 QTi 1x14/24/21/39 QTi 2x14/24/21/39 QTi 1x28-54 DIM QTi DALI 1x28-54 DIM QTi 2x28-54 DIM QTi DALI 2x28-54 DIM
L 36W, L 36W SP	QTi DALI 1x36/220-240 DIM QTi DALI 2x36/220-240 DIM QTi 1x36/220-240 DIM QTi 2x36/220-240 DIM QTi 1x14/24/21/39 QTi 2x14/24/21/39 QTP-DL 1x36-40 QTP-DL 2x36-40 QTP-M 1x26-42/220-240 S QTP-M 2x26-32/220-240 S QT-M 2x26-42/220-240 S
L 40W, L 40W CONSTANT	QTi DALI 1x21/39/220-240 DIM QTi DALI 2x21/39/220-240 DIM QTi 1x21/39/220-240 DIM QTi 2x21/39/220-240 DIM QTi 1x14/24/21/39 QTi 2x14/24/21/39 QTP-DL 1x36-40 QTP-DL 2x36-40 QTP-M 1x26-42/220-240 S
L 55W, L 55W CONSTANT	QTi DALI 1x28/54/220-240 DIM QTi DALI 2x28/54/220-240 DIM QTi 1x28/54/220-240 DIM QTi 2x28/54/220-240 DIM QTi 1x35/49/80 QT-FQ 2x80 QTP-DL 1x55 GII QTP-DL 2x55 GII QT-FC 1x55/230-240 S
L 80W, L 80W CONSTANT	QTi DALI 1x35/49/80 DIM QTi 1x35/49/80 DIM QTi 1x35/49/80 QTP5 1x80 QT-FQ 2x80

RECOMMENDED CONTROL GEAR FOR AN AVERAGE LIFE OF UP TO 36,000 HOURS

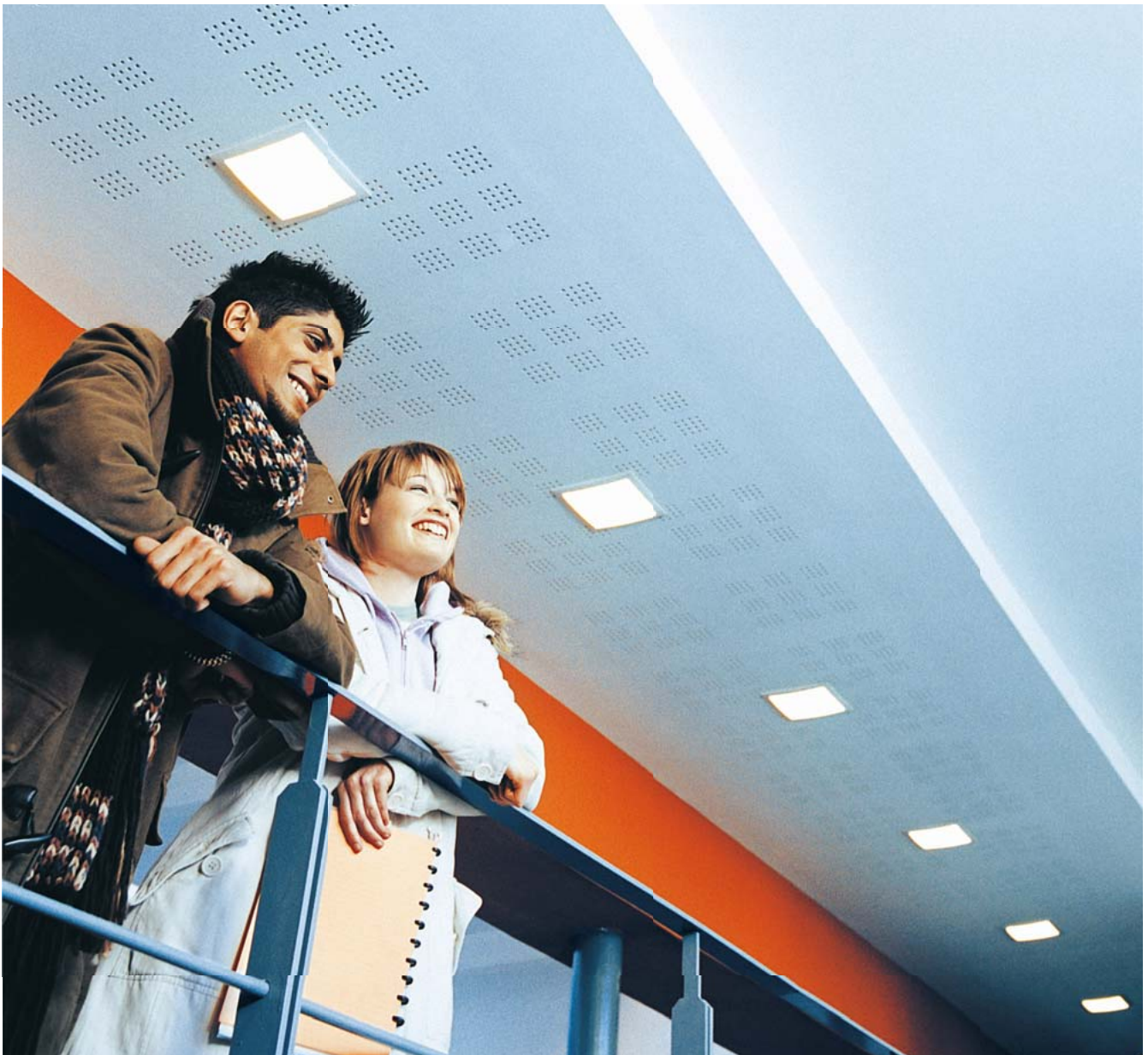
Lamp	OSRAM ECG
D/E 18W XT	QTP-T/E 1x18, 2x18
D/E 26W XT, T/E 32W XT, T/E 42W XT	QT(P)-M 1x26-42, 2x26-32, 2x26-42
L 18W XT, L 24W XT, L 36W XT	QTP-DL 1x18-24, 1x36-40 QTP-DL 2x18-24, 2x36-40 QT(P)-M 1x26-42, 2x26-32, 2x26-42
L 55W XT	QTP-DL 1x55, 2x55

OVERVIEW OF LIFETIME

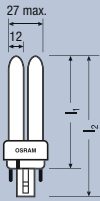
Average life (according to EN 50285)	Lamp type	Watt	Electronic control gear (IEC 60929)		Magnetic control gear ¹ (IEC 60921)
			Preheat ¹	Non Preheat ²	
	S, D, D ES	all	–	–	10,000 h
	CFL SQUARE® 2-Pin	all	–	–	10,000 h
	CFL SQUARE® 4-Pin	all	10,000 h	3,000 h	10,000 h
	F	all	10,000 h	3,000 h	8,000 h
	L, L SP	18W, 24W, 36W	20,000 h	6,000 h	10,000 h
	L HE	all	20,000 h	6,000 h	–
	L, L CONSTANT	40W, 55W, 80W	20,000 h	6,000 h	–
	S/E, D/E	all	20,000 h	6,000 h	–
	T/E PLUS, T/E CONSTANT, T/E HE	all	20,000 h	6,000 h	–
	L XT	18W, 24W, 36W	36,000 h	10,000 h	21,000 h
	L XT	55W	36,000 h	10,000 h	–
	D/E XT, T/E XT	all	36,000 h	10,000 h	–

¹ Switching cycle 165 min. on, 15 min. off (according to IEC 60901).

² Maximum of 2 switches per day.



OSRAM DULUX® D/E XT – FOR ELECTRONIC CONTROL GEAR (ECG)

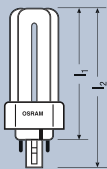


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® D/E XT¹ (Long Life)											
DULUX D/E 18W/830 XT	18	LUMILUX Warm White	1B	1,200	130	146	140	G24q-2	10	4008321507532	B
DULUX D/E 18W/840 XT	18	LUMILUX Cool White	1B	1,200	130	146	140	G24q-2	10	4008321507556	B
DULUX D/E 26W/830 XT	26	LUMILUX Warm White	1B	1,800	149	165	160	G24q-3	10	4008321508782	B
DULUX D/E 26W/840 XT	26	LUMILUX Cool White	1B	1,800	149	165	160	G24q-3	10	4008321508829	B

¹ Planned to be available from December 2010.

OSRAM DULUX® T/E XT – FOR ELECTRONIC CONTROL GEAR (ECG)

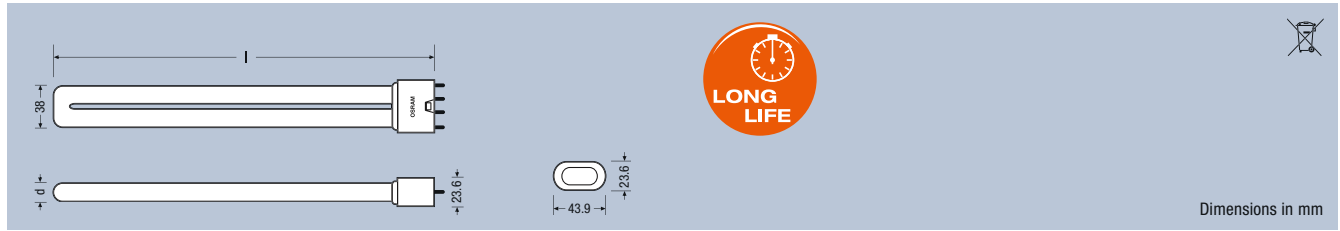


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® T/E XT¹ (Long Life)											
DULUX T/E 32W/830 XT	32	LUMILUX Warm White	1B	2,400	131	147	145	GX24q-3	10	4008321511911	B
DULUX T/E 32W/840 XT	32	LUMILUX Cool White	1B	2,400	131	147	145	GX24q-3	10	4008321511935	B
DULUX T/E 42W/830 XT	42	LUMILUX Warm White	1B	3,200	152	168	155	GX24q-4	10	4008321511959	B
DULUX T/E 42W/840 XT	42	LUMILUX Cool White	1B	3,200	152	168	155	GX24q-4	10	4008321511973	B

¹ Planned to be available from December 2010.

OSRAM DULUX® L XT – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)



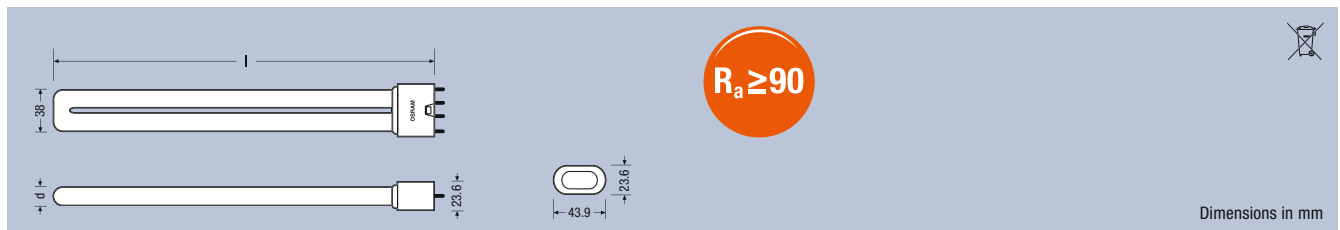
Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L XT¹ (Long Life)											
DULUX L 18W/830 XT	18	LUMILUX Warm White	1B	1,200	217	225	17.5	2G11	10	4008321507570	B
DULUX L 18W/840 XT	18	LUMILUX Cool White	1B	1,200	217	225	17.5	2G11	10	4008321507594	B
DULUX L 24W/830 XT	24	LUMILUX Warm White	1B	1,800	317	320	17.5	2G11	10	4008321507617	B
DULUX L 24W/840 XT	24	LUMILUX Cool White	1B	1,800	317	320	17.5	2G11	10	4008321507631	B
DULUX L 36W/830 XT	36	LUMILUX Warm White	1B	2,900	411	415	17.5	2G11	10	4008321507655	A
DULUX L 36W/840 XT	36	LUMILUX Cool White	1B	2,900	411	415	17.5	2G11	10	4008321507679	A
DULUX L 55W/830 XT ²	55	LUMILUX Warm White	1B	4,800	533	535	17.5	2G11	10	4008321507693	A
DULUX L 55W/840 XT ²	55	LUMILUX Cool White	1B	4,800	533	535	17.5	2G11	10	4008321507716	A

¹ Planned to be available from December 2010.

² For ECG operation only.

OSRAM DULUX® L LUMILUX® DE LUXE – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)

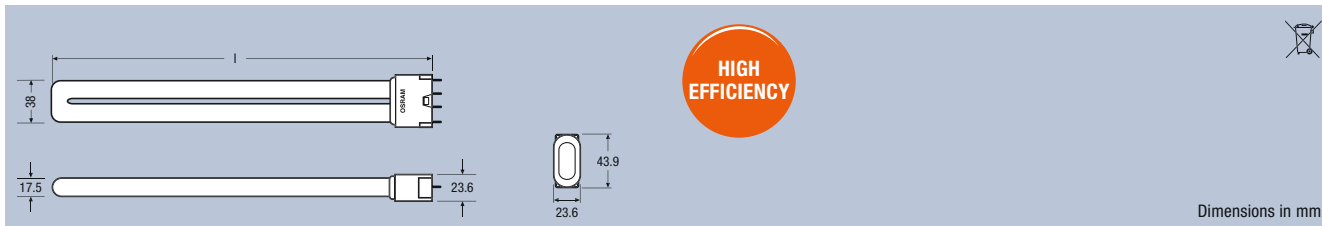


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L LUMILUX® DE LUXE											
DULUX L 18W/930	18	LUMILUX DE LUXE Warm White	1A	950	217	225	17.5	2G11	10	4050300018324	B
DULUX L 18W/940	18	LUMILUX DE LUXE Cool White	1A	950	217	225	17.5	2G11	10	4050300018560	B
DULUX L 18W/954	18	LUMILUX DE LUXE Daylight	1A	950	217	225	17.5	2G11	10	4050300018423	B
DULUX L 24W/930	24	LUMILUX DE LUXE Warm White	1A	1,500	317	320	17.5	2G11	10	4050300018386	B
DULUX L 24W/940	24	LUMILUX DE LUXE Cool White	1A	1,500	317	320	17.5	2G11	10	4050300018584	B
DULUX L 24W/954	24	LUMILUX DE LUXE Daylight	1A	1,500	317	320	17.5	2G11	10	4050300018447	B
DULUX L 36W/930	36	LUMILUX DE LUXE Warm White	1A	2,350	411	415	17.5	2G11	10	4050300018393	B
DULUX L 36W/940	36	LUMILUX DE LUXE Cool White	1A	2,350	411	415	17.5	2G11	10	4050300018607	B
DULUX L 36W/954	36	LUMILUX DE LUXE Daylight	1A	2,350	411	415	17.5	2G11	10	4050300018461	B
DULUX L 40W/954 ¹	40	LUMILUX DE LUXE Daylight	1A	2,950	533	535	17.5	2G11	10	40503000315799	B
DULUX L 55W/930 ¹	55	LUMILUX DE LUXE Warm White	1A	4,000	533	535	17.5	2G11	10	40503000370705	B
DULUX L 55W/940 ¹	55	LUMILUX DE LUXE Cool White	1A	4,000	533	535	17.5	2G11	10	40503000197999	B
DULUX L 55W/954 ¹	55	LUMILUX DE LUXE Daylight	1A	4,000	533	535	17.5	2G11	10	40503000321400	B

¹ For ECG operation only.

OSRAM DULUX® L HE – FOR ELECTRONIC CONTROL GEAR (ECG)



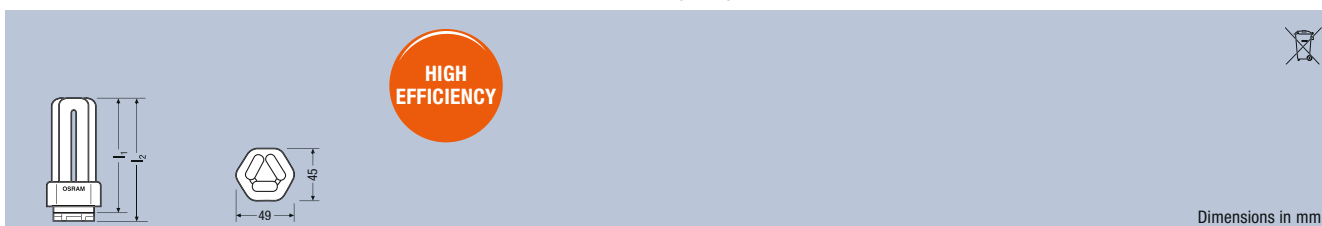
Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous ¹ flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L HE (High Efficiency)										
DULUX L 16W/830 HE ²	16	LUMILUX Warm White	1B	1,600	317	u.c.	2GX11	10	4008321507792	A
DULUX L 16W/840 HE ²	16	LUMILUX Cool White	1B	1,600	317	u.c.	2GX11	10	4008321507815	A
DULUX L 22W/830 HE ²	22	LUMILUX Warm White	1B	2,200	411	u.c.	2GX11	10	4008321507839	A
DULUX L 22W/840 HE ²	22	LUMILUX Cool White	1B	2,200	411	u.c.	2GX11	10	4008321508638	A
DULUX L 26W/830 HE ²	26	LUMILUX Warm White	1B	2,600	533	u.c.	2GX11	10	4008321508584	A
DULUX L 26W/840 HE ²	26	LUMILUX Cool White	1B	2,600	533	u.c.	2GX11	10	4008321508713	A
DULUX L 28W/830 HE	28	LUMILUX Warm White	1B	2,800	565	565	2GX11	10	4008321296719	A
DULUX L 28W/840 HE	28	LUMILUX Cool White	1B	2,800	565	565	2GX11	10	4008321296757	A

¹At an ambient temperature of +35 °C.

²Planned to be available from April 2010.

OSRAM DULUX® T/E HE – FOR ELECTRONIC CONTROL GEAR (ECG)

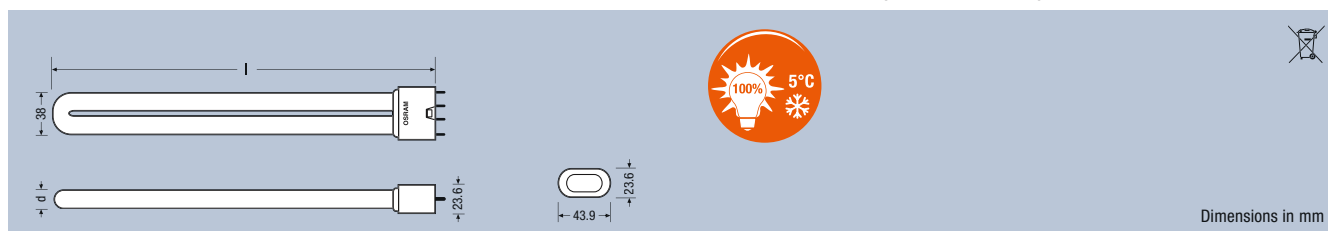


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous ¹ flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® T/E HE (High Efficiency)											
DULUX T/E 11 W/830 HE	11	LUMILUX Warm White	1B	900	105	112	120	GR14q-1	10	4008321359452	A
DULUX T/E 11 W/840 HE	11	LUMILUX Cool White	1B	900	105	112	120	GR14q-1	10	4008321359476	A
DULUX T/E 14 W/830 HE	14	LUMILUX Warm White	1B	1,200	122	129	140	GR14q-1	10	4008321290496	A
DULUX T/E 14 W/840 HE	14	LUMILUX Cool White	1B	1,200	122	129	140	GR14q-1	10	4008321290519	A
DULUX T/E 17 W/830 HE	17	LUMILUX Warm White	1B	1,500	141	146	150	GR14q-1	10	4008321290533	A
DULUX T/E 17 W/840 HE	17	LUMILUX Cool White	1B	1,500	141	146	150	GR14q-1	10	4008321290557	A

¹At an ambient temperature of +35 °C.

OSRAM DULUX® L SP – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)

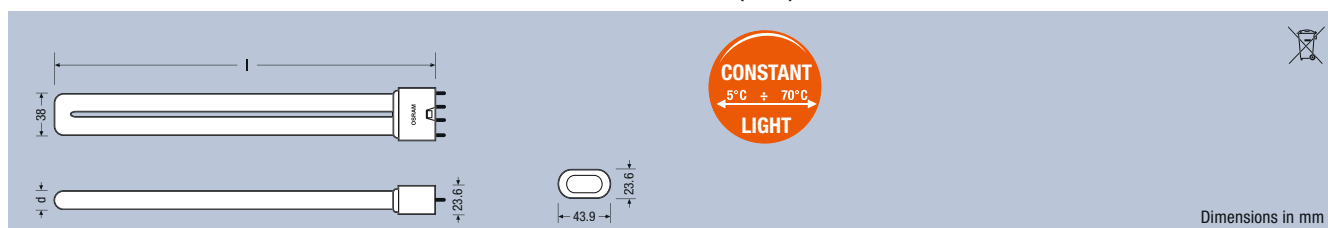


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L SP											
DULUX L 18W/830 SP	18	LUMILUX Warm White	1B	1,200	209	225	17.5	2G11	10	4050300300276	B
DULUX L 18W/840 SP	18	LUMILUX Cool White	1B	1,200	209	225	17.5	2G11	10	4008321280497	B
DULUX L 24W/830 SP	24	LUMILUX Warm White	1B	1,800	309	320	17.5	2G11	10	4050300300238	B
DULUX L 24W/840 SP	24	LUMILUX Cool White	1B	1,800	309	320	17.5	2G11	10	4008321280510	B
DULUX L 36W/830 SP	36	LUMILUX Warm White	1B	2,900	403	415	17.5	2G11	10	4008321283757	A
DULUX L 36W/840 SP	36	LUMILUX Cool White	1B	2,900	403	415	17.5	2G11	10	4008321283771	A

¹At an ambient temperature of +5 °C.

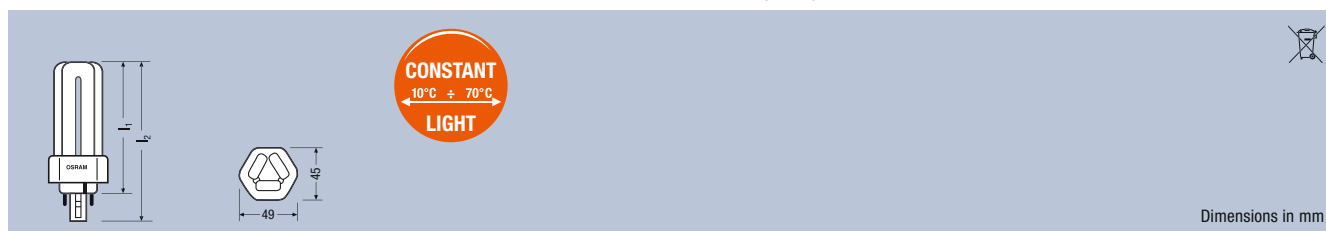
OSRAM DULUX® L CONSTANT – FOR ELECTRONIC CONTROL GEAR (ECG)



Dimensions in mm

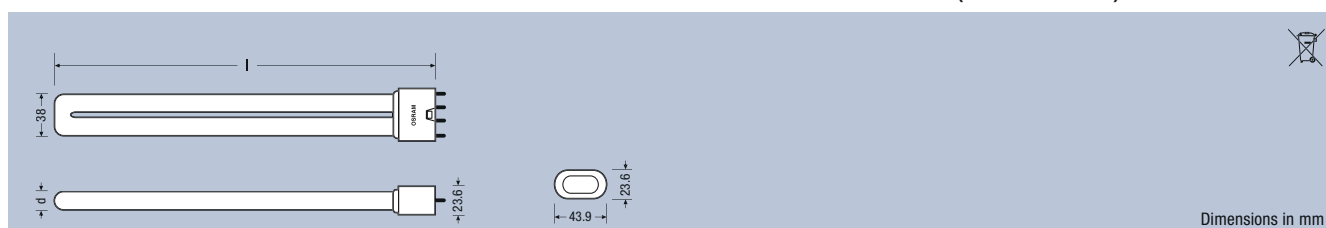
Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L CONSTANT											
DULUX L 40W/840 CONSTANT	40	LUMILUX Cool White	1B	3,500	533	535	17.5	2G11	10	4008321104823	A
DULUX L 55W/840 CONSTANT	55	LUMILUX Cool White	1B	4,800	533	535	17.5	2G11	10	4008321104847	A
DULUX L 80W/840 CONSTANT	80	LUMILUX Cool White	1B	6,500	565	565	17.5	2G11	10	4008321104861	B

OSRAM DULUX® T/E CONSTANT – FOR ELECTRONIC CONTROL GEAR (ECG)



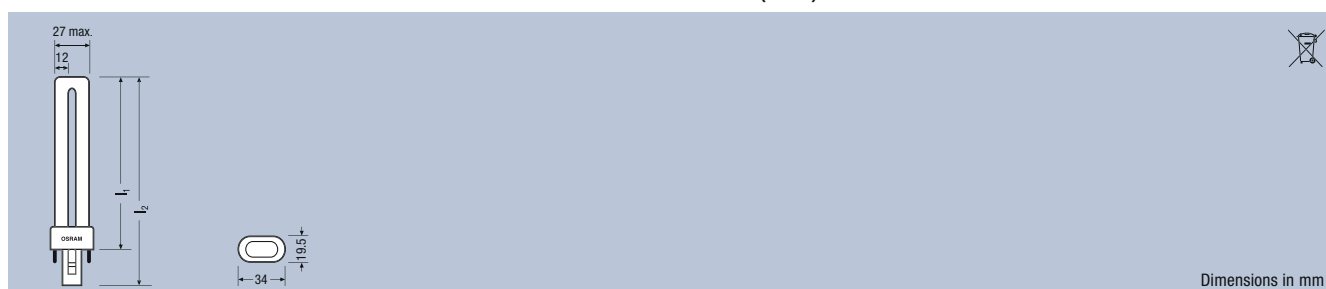
Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® T/E CONSTANT											
DULUX T/E 26W/830 CONSTANT	26	LUMILUX Warm White	1B	1,800	108	126	130	GX24q-3	10	4050300425467	B
DULUX T/E 26W/840 CONSTANT	26	LUMILUX Cool White	1B	1,800	108	126	130	GX24q-3	10	4050300425443	B
DULUX T/E 32W/827 CONSTANT	32	LUMILUX INTERNA	1B	2,400	124	142	145	GX24q-3	10	4050300425542	B
DULUX T/E 32W/830 CONSTANT	32	LUMILUX Warm White	1B	2,400	124	142	145	GX24q-3	10	4050300425528	B
DULUX T/E 32W/840 CONSTANT	32	LUMILUX Cool White	1B	2,400	124	142	145	GX24q-3	10	4050300425504	B
DULUX T/E 42W/827 CONSTANT	42	LUMILUX INTERNA	1B	3,200	146	164	155	GX24q-4	10	4050300425603	B
DULUX T/E 42W/830 CONSTANT	42	LUMILUX Warm White	1B	3,200	146	164	155	GX24q-4	10	4050300425580	B
DULUX T/E 42W/840 CONSTANT	42	LUMILUX Cool White	1B	3,200	146	164	155	GX24q-4	10	4050300425566	B

OSRAM DULUX® L COLORED – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)



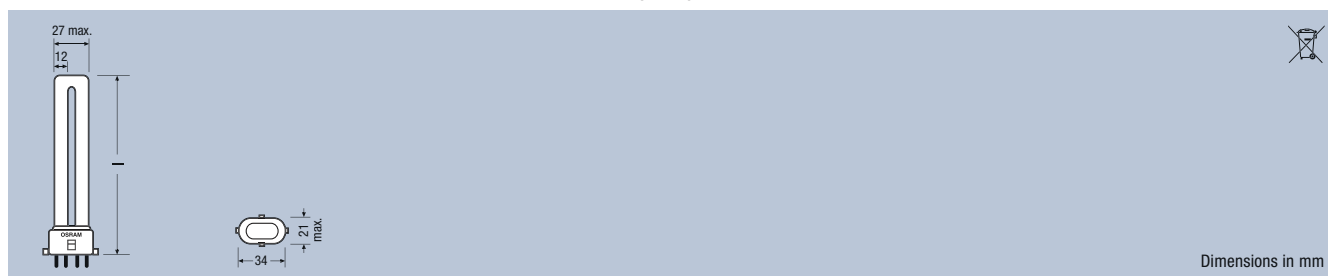
Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L COLORED											
DULUX L 24W/67	24	Blue	–	550	317	320	17.5	G23	10	4050300354033	–

OSRAM DULUX® S COLORED – FOR CONVENTIONAL CONTROL GEAR (CCG)



Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® S COLORED											
DULUX S 9W/60	9	Red	–	400	144	167	145	G23	10	4050300015927	–
DULUX S 9W/66	9	Green	–	800	144	167	145	G23	10	4050300015934	–
DULUX S 9W/67	9	Blue	–	200	144	167	145	G23	10	4050300015941	–

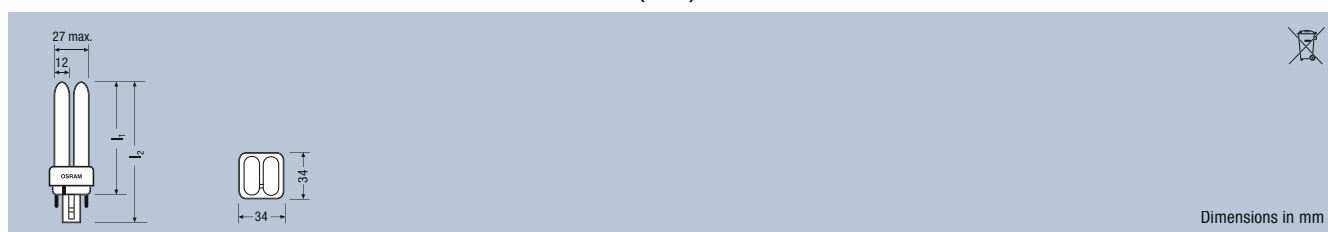
OSRAM DULUX® S/E – FOR ELECTRONIC CONTROL GEAR (ECG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering group	Luminous flux (lm)	Length l ₁ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® S/E										
DULUX S/E 7W/827	7	LUMILUX INTERNA	1B	400	114	115	2G7	10	4050300017648	B
DULUX S/E 7W/830	7	LUMILUX Warm White	1B	400	114	115	2G7	10	4050300591988	B
DULUX S/E 7W/840	7	LUMILUX Cool White	1B	400	114	115	2G7	10	4050300020167	B
DULUX S/E 9W/827	9	LUMILUX INTERNA	1B	600	144	145	2G7	10	4050300017655	A
DULUX S/E 9W/830	9	LUMILUX Warm White	1B	600	144	145	2G7	10	4050300589398	A
DULUX S/E 9W/840	9	LUMILUX Cool White	1B	600	144	145	2G7	10	4050300020174	A
DULUX S/E 11W/827	11	LUMILUX INTERNA	1B	900	214	215	2G7	10	4050300017662	A
DULUX S/E 11W/830	11	LUMILUX Warm White	1B	900	214	215	2G7	10	4050300589374	A
DULUX S/E 11W/840	11	LUMILUX Cool White	1B	900	214	215	2G7	10	4050300020181	A

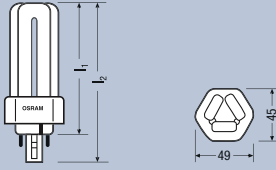
OSRAM DULUX® D/E – FOR ELECTRONIC CONTROL GEAR (ECG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering group	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® D/E											
DULUX D/E 10W/827	10	LUMILUX INTERNA	1B	600	87	103	95	G24q-1	10	4050300012124	B
DULUX D/E 10W/830	10	LUMILUX Warm White	1B	600	87	103	95	G24q-1	10	4050300419435	B
DULUX D/E 10W/835	10	LUMILUX White	1B	600	87	103	95	G24q-1	10	4050300450933	B
DULUX D/E 10W/840	10	LUMILUX Cool White	1B	600	87	103	95	G24q-1	10	4050300017587	B
DULUX D/E 13W/827	13	LUMILUX INTERNA	1B	900	115	131	130	G24q-1	10	4050300012131	A
DULUX D/E 13W/830	13	LUMILUX Warm White	1B	900	115	131	130	G24q-1	10	4050300389059	A
DULUX D/E 13W/835	13	LUMILUX White	1B	900	115	131	130	G24q-1	10	4050300450957	A
DULUX D/E 13W/840	13	LUMILUX Cool White	1B	900	115	131	130	G24q-1	10	4050300017594	A
DULUX D/E 18W/827	18	LUMILUX INTERNA	1B	1,200	130	146	140	G24q-2	10	4050300012148	B
DULUX D/E 18W/830	18	LUMILUX Warm White	1B	1,200	130	146	140	G24q-2	10	4050300327211	B
DULUX D/E 18W/835	18	LUMILUX White	1B	1,200	130	146	140	G24q-2	10	4050300450971	B
DULUX D/E 18W/840	18	LUMILUX Cool White	1B	1,200	130	146	140	G24q-2	10	4050300017617	B
DULUX D/E 18W/865	18	LUMILUX Cool Daylight	1B	1,140	130	146	140	G24q-2	10	4050300564944	B
DULUX D/E 26W/827	26	LUMILUX INTERNA	1B	1,800	149	165	160	G24q-3	10	4050300012230	B
DULUX D/E 26W/830	26	LUMILUX Warm White	1B	1,800	149	165	160	G24q-3	10	4050300327235	B
DULUX D/E 26W/835	26	LUMILUX White	1B	1,800	149	165	160	G24q-3	10	4050300450995	B
DULUX D/E 26W/840	26	LUMILUX Cool White	1B	1,800	149	165	160	G24q-3	10	4050300020303	B
DULUX D/E 26W/865	26	LUMILUX Cool Daylight	1B	1,710	149	165	160	G24q-3	10	4008321185877	B

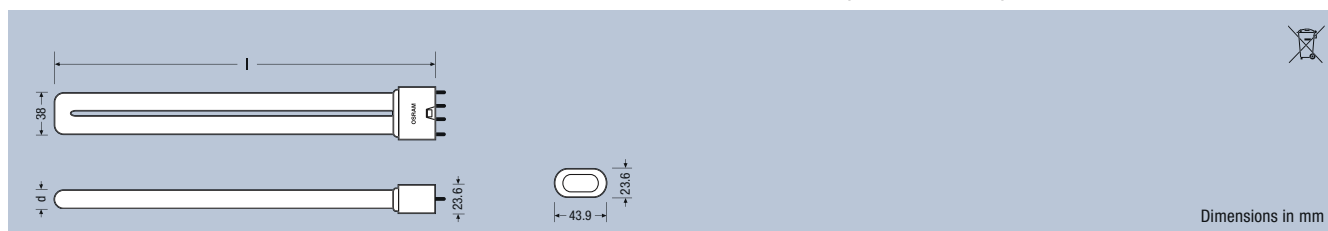
OSRAM DULUX® T/E PLUS – FOR ELECTRONIC CONTROL GEAR (ECG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® T/E PLUS											
DULUX T/E 13W/827 PLUS	13	LUMILUX INTERNA	1B	900	90	106	90	GX24q-1	10	4050300447001	A
DULUX T/E 13W/830 PLUS	13	LUMILUX Warm White	1B	900	90	106	90	GX24q-1	10	4050300446981	A
DULUX T/E 13W/840 PLUS	13	LUMILUX Cool White	1B	900	90	106	90	GX24q-1	10	4050300446967	A
DULUX T/E 18W/827 PLUS	18	LUMILUX INTERNA	1B	1,200	100	116	110	GX24q-2	10	4050300342269	B
DULUX T/E 18W/830 PLUS	18	LUMILUX Warm White	1B	1,200	100	116	110	GX24q-2	10	4050300342245	B
DULUX T/E 18W/840 PLUS	18	LUMILUX Cool White	1B	1,200	100	116	110	GX24q-2	10	4050300342221	B
DULUX T/E 26W/827 PLUS	26	LUMILUX INTERNA	1B	1,800	115	131	130	GX24q-3	10	4050300342320	B
DULUX T/E 26W/830 PLUS	26	LUMILUX Warm White	1B	1,800	115	131	130	GX24q-3	10	4050300342306	B
DULUX T/E 26W/840 PLUS	26	LUMILUX Cool White	1B	1,800	115	131	130	GX24q-3	10	4050300342283	B
DULUX T/E 32W/827 PLUS	32	LUMILUX INTERNA	1B	2,400	131	147	145	GX24q-3	10	4050300348605	B
DULUX T/E 32W/830 PLUS	32	LUMILUX Warm White	1B	2,400	131	147	145	GX24q-3	10	4050300348582	B
DULUX T/E 32W/840 PLUS	32	LUMILUX Cool White	1B	2,400	131	147	145	GX24q-3	10	4050300348568	B
DULUX T/E 42W/827 PLUS	42	LUMILUX INTERNA	1B	3,200	152	168	155	GX24q-4	10	4050300425665	B
DULUX T/E 42W/830 PLUS	42	LUMILUX Warm White	1B	3,200	152	168	155	GX24q-4	10	4050300425641	B
DULUX T/E 42W/840 PLUS	42	LUMILUX Cool White	1B	3,200	152	168	155	GX24q-4	10	4050300425627	B

OSRAM DULUX® L – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)

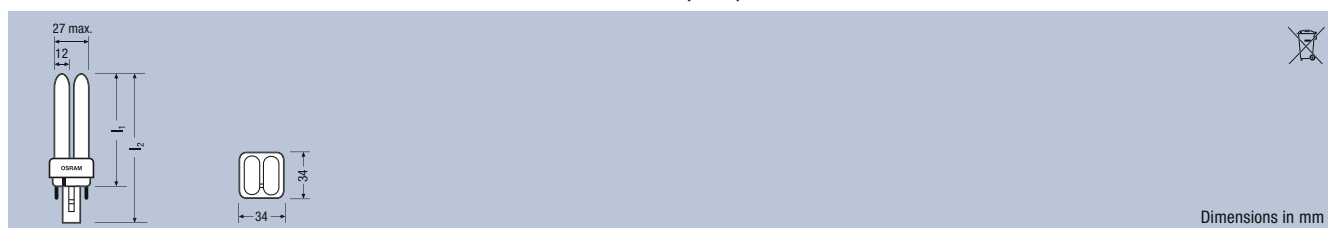


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Lumino- flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Stand- ard pack (pcs.)	EAN	Ener- gy label
OSRAM DULUX® L LUMILUX®											
DULUX L 18W/827	18	LUMILUX INTERNA	1B	1,200	217	225	17.5	2G11	10	4050300010748	B
DULUX L 18W/830	18	LUMILUX Warm White	1B	1,200	217	225	17.5	2G11	10	4050300010731	B
DULUX L 18W/835	18	LUMILUX White	1B	1,200	217	225	17.5	2G11	10	4050300295893	B
DULUX L 18W/840	18	LUMILUX Cool White	1B	1,200	217	225	17.5	2G11	10	4050300010724	B
DULUX L 24W/827	24	LUMILUX INTERNA	1B	1,800	317	320	17.5	2G11	10	4050300010779	B
DULUX L 24W/830	24	LUMILUX Warm White	1B	1,800	317	320	17.5	2G11	10	4050300010762	B
DULUX L 24W/835	24	LUMILUX White	1B	1,800	317	320	17.5	2G11	10	4050300295916	B
DULUX L 24W/840	24	LUMILUX Cool White	1B	1,800	317	320	17.5	2G11	10	4050300010755	B
DULUX L 36W/827	36	LUMILUX INTERNA	1B	2,900	411	415	17.5	2G11	10	4050300010809	A
DULUX L 36W/830	36	LUMILUX Warm White	1B	2,900	411	415	17.5	2G11	10	4050300010793	A
DULUX L 36W/835	36	LUMILUX White	1B	2,900	411	415	17.5	2G11	10	4050300295930	A
DULUX L 36W/840	36	LUMILUX Cool White	1B	2,900	411	415	17.5	2G11	10	4050300010786	A
DULUX L 36W/865	36	LUMILUX Cool Daylight	1B	2,750	411	415	17.5	2G11	10	4050300328263	B
DULUX L 36W/880	36	LUMILUX SKYWHITE	1B	2,600	411	415	17.5	2G11	10	4008321185891	B
DULUX L 40W/827 ¹	40	LUMILUX INTERNA	1B	3,500	533	535	17.5	2G11	10	4050300322285	A
DULUX L 40W/830 ¹	40	LUMILUX Warm White	1B	3,500	533	535	17.5	2G11	10	4050300298894	A
DULUX L 40W/835 ¹	40	LUMILUX White	1B	3,500	533	535	17.5	2G11	10	4050300295954	A
DULUX L 40W/840 ¹	40	LUMILUX Cool White	1B	3,500	533	535	17.5	2G11	10	4050300279909	A
DULUX L 40W/865 ¹	40	LUMILUX Cool Daylight	1B	3,325	533	535	17.5	2G11	10	4050300592008	A
DULUX L 40W/880 ¹	40	LUMILUX SKYWHITE	1B	3,150	533	535	17.5	2G11	10	4008321185914	B
DULUX L 55W/827 ¹	55	LUMILUX INTERNA	1B	4,800	533	535	17.5	2G11	10	4050300315881	A
DULUX L 55W/830 ¹	55	LUMILUX Warm White	1B	4,800	533	535	17.5	2G11	10	4050300298917	A
DULUX L 55W/835 ¹	55	LUMILUX White	1B	4,800	533	535	17.5	2G11	10	4050300295978	A
DULUX L 55W/840 ¹	55	LUMILUX Cool White	1B	4,800	533	535	17.5	2G11	10	4050300295879	A
DULUX L 55W/865 ¹	55	LUMILUX Cool Daylight	1B	4,550	533	535	17.5	2G11	10	4050300553900	B
DULUX L 55W/880 ¹	55	LUMILUX SKYWHITE	1B	4,300	533	535	17.5	2G11	10	4008321185938	B
DULUX L 80W/830 ¹	80	LUMILUX Warm White	1B	6,500	565	565	17.5	2G11	10	4050300665467	B
DULUX L 80W/840 ¹	80	LUMILUX Cool White	1B	6,500	565	565	17.5	2G11	10	4050300665481	B
DULUX L 80W/880 ¹	80	LUMILUX SKYWHITE	1B	5,850	565	565	17.5	2G11	10	4008321185952	B

¹ For ECG operation only.

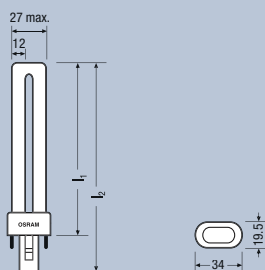
OSRAM DULUX® D ES – FOR CONVENTIONAL CONTROL GEAR (CCG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Lumino- flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Stand- ard pack (pcs.)	EAN	Ener- gy label
OSRAM DULUX® D ES											
DULUX D 16W/827 ES	16	LUMILUX INTERNA	1B	1,150	130	153	140	G24d-2	10	4008321940773	A
DULUX D 16W/830 ES	16	LUMILUX Warm White	1B	1,150	130	153	140	G24d-2	10	4008321940797	A
DULUX D 16W/840 ES	16	LUMILUX Cool White	1B	1,150	130	153	140	G24d-2	10	4008321940810	A
DULUX D 23W/827 ES	23	LUMILUX INTERNA	1B	1,750	149	172	160	G24d-3	10	4008321940759	A
DULUX D 23W/830 ES	23	LUMILUX Warm White	1B	1,750	149	172	160	G24d-3	10	4008321940711	A
DULUX D 23W/840 ES	23	LUMILUX Cool White	1B	1,750	149	172	160	G24d-3	10	4008321940735	A

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

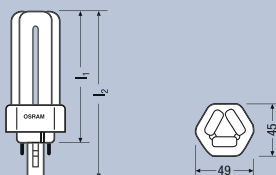


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® S LUMILUX®											
DULUX S 5W/827	5	LUMILUX INTERNA	1B	250	85	108	85	G23	10	4050300006130	B
DULUX S 5W/840	5	LUMILUX Cool White	1B	250	85	108	85	G23	10	4050300010564	B
DULUX S 7W/827	7	LUMILUX INTERNA	1B	400	114	137	115	G23	10/50	4050300005997	B
DULUX S 7W/827 BLI ¹	7	LUMILUX INTERNA	1B	400	114	137	115	G23	10 ¹	4050300006086	B
DULUX S 7W/830	7	LUMILUX Warm White	1B	400	114	137	115	G23	10	4050300025735	B
DULUX S 7W/835	7	LUMILUX White	1B	400	114	137	115	G23	50	40503000451039	B
DULUX S 7W/840	7	LUMILUX Cool White	1B	400	114	137	115	G23	10	4050300010571	B
DULUX S 9W/827	9	LUMILUX INTERNA	1B	600	144	167	145	G23	10/50	4050300006000	A
DULUX S 9W/827 BLI ¹	9	LUMILUX INTERNA	1B	600	144	167	145	G23	10 ¹	4050300006093	A
DULUX S 9W/830	9	LUMILUX Warm White	1B	600	144	167	145	G23	10/50	4050300025742	A
DULUX S 9W/835	9	LUMILUX White	1B	600	144	167	145	G23	50	40503000451053	A
DULUX S 9W/840	9	LUMILUX Cool White	1B	600	144	167	145	G23	10	4050300010588	A
DULUX S 9W/865	9	LUMILUX Cool Daylight	1B	570	144	167	145	G23	50	40503000355320	A
DULUX S 11W/827	11	LUMILUX INTERNA	1B	900	214	237	215	G23	10/50	4050300006017	A
DULUX S 11W/827 BLI ¹	11	LUMILUX INTERNA	1B	900	214	237	215	G23	10 ¹	4050300006109	A
DULUX S 11W/830	11	LUMILUX Warm White	1B	900	214	237	215	G23	10/50	4050300025759	A
DULUX S 11W/835	11	LUMILUX White	1B	900	214	237	215	G23	50	40503000451077	A
DULUX S 11W/840	11	LUMILUX Cool White	1B	900	214	237	215	G23	10/50	4050300010618	A

¹ Blister pack.

OSRAM DULUX® T PLUS – FOR CONVENTIONAL CONTROL GEAR (CCG)

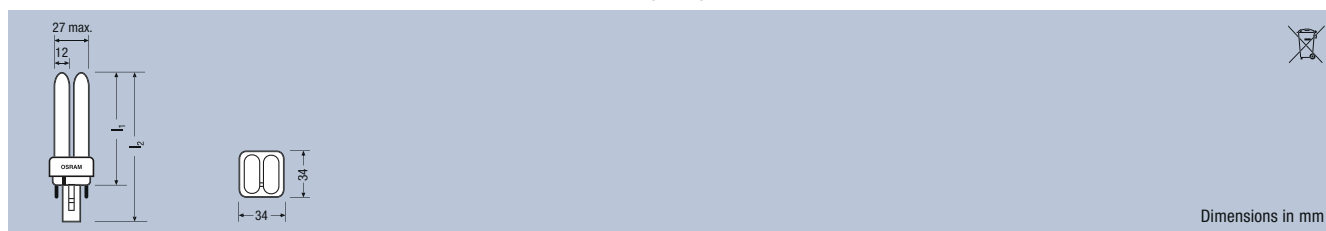


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® T PLUS											
DULUX T 13W/830 PLUS	13	LUMILUX Warm White	1B	900	90	113	90	GX24d-1	10	40503000446929	A
DULUX T 13W/840 PLUS	13	LUMILUX Cool White	1B	900	90	113	90	GX24d-1	10	40503000446905	A
DULUX T 18W/827 PLUS	18 ¹	LUMILUX INTERNA	1B	1,200	100	123	110	GX24d-2	10	40503000333502	B
DULUX T 18W/830 PLUS	18 ¹	LUMILUX Warm White	1B	1,200	100	123	110	GX24d-2	10	40503000333489	B
DULUX T 18W/840 PLUS	18 ¹	LUMILUX Cool White	1B	1,200	100	123	110	GX24d-2	10	40503000333465	B
DULUX T 26W/827 PLUS	26	LUMILUX INTERNA	1B	1,800	115	138	130	GX24d-3	10	40503000342085	B
DULUX T 26W/830 PLUS	26	LUMILUX Warm White	1B	1,800	115	138	130	GX24d-3	10	40503000342061	B
DULUX T 26W/840 PLUS	26	LUMILUX Cool White	1B	1,800	115	138	130	GX24d-3	10	40503000342047	B

¹ Only for operation with 0.22A control gear.

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

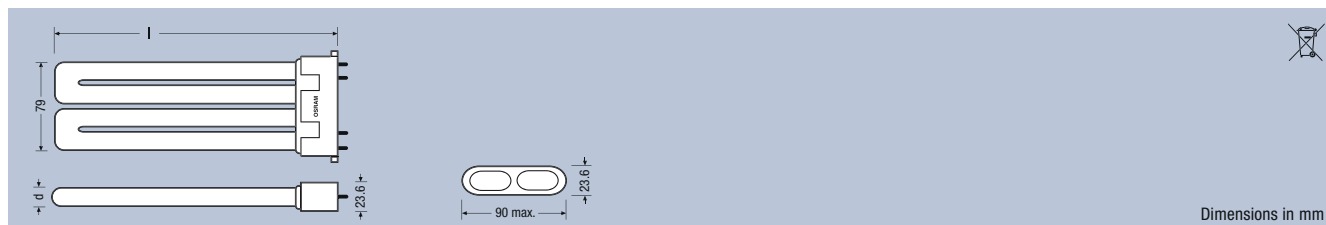


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® D											
DULUX D 10W/827	10	LUMILUX INTERNA	1B	600	87	110	95	G24d-1	10	4050300008110	B
DULUX D 10W/830	10	LUMILUX Warm White	1B	600	87	110	95	G24d-1	10	4050300025681	B
DULUX D 10W/835	10	LUMILUX White	1B	600	87	110	95	G24d-1	10	4050300028835	B
DULUX D 10W/840	10	LUMILUX Cool White	1B	600	87	110	95	G24d-1	10	4050300010595	B
DULUX D 13W/827	13	LUMILUX INTERNA	1B	900	115	138	130	G24d-1	10	4050300008127	A
DULUX D 13W/830	13	LUMILUX Warm White	1B	900	115	138	130	G24d-1	10/50	4050300025698	A
DULUX D 13W/835	13	LUMILUX White	1B	900	115	138	130	G24d-1	10	4050300028859	A
DULUX D 13W/840	13	LUMILUX Cool White	1B	900	115	138	130	G24d-1	10/50	4050300010625	A
DULUX D 13W/865	13	LUMILUX Cool Daylight	1B	855	115	138	130	G24d-1	10	40503000487106	B
DULUX D 18W/827 ¹	18	LUMILUX INTERNA	1B	1,200	130	153	140	G24d-2	10	4050300011462	B
DULUX D 18W/830 ¹	18	LUMILUX Warm White	1B	1,200	130	153	140	G24d-2	10/50	4050300025704	B
DULUX D 18W/835 ¹	18	LUMILUX White	1B	1,200	130	153	140	G24d-2	10	4050300028873	B
DULUX D 18W/840 ¹	18	LUMILUX Cool White	1B	1,200	130	153	140	G24d-2	10/50	4050300012056	B
DULUX D 18W/865 ¹	18	LUMILUX Cool Daylight	1B	1,140	130	153	140	G24d-2	10	40503000487120	B
DULUX D 26W/827	26	LUMILUX INTERNA	1B	1,800	149	172	160	G24d-3	10	4050300011912	B
DULUX D 26W/830	26	LUMILUX Warm White	1B	1,800	149	172	160	G24d-3	10/50	4050300025711	B
DULUX D 26W/835	26	LUMILUX White	1B	1,800	149	172	160	G24d-3	10	4050300028897	B
DULUX D 26W/840	26	LUMILUX Cool White	1B	1,800	149	172	160	G24d-3	10/50	4050300012049	B
DULUX D 26W/865	26	LUMILUX Cool Daylight	1B	1,710	149	172	160	G24d-3	10	40503000486987	B

¹ Only for operation with 0.22 A control gear.

OSRAM DULUX® F – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)

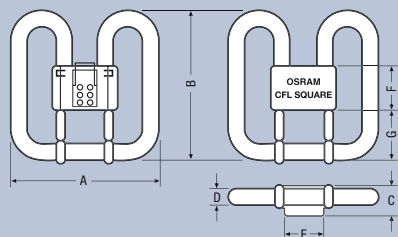


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® F											
DULUX F 18W/827	18	LUMILUX INTERNA	1B	1,100	122	122	17.5	2G10	10	4050300333564	B
DULUX F 18W/830	18	LUMILUX Warm White	1B	1,100	122	122	17.5	2G10	10	4050300333540	B
DULUX F 18W/840	18	LUMILUX Cool White	1B	1,100	122	122	17.5	2G10	10	4050300333526	B
DULUX F 24W/827	24	LUMILUX INTERNA	1B	1,700	165	165	17.5	2G10	10	4050300333625	B
DULUX F 24W/830	24	LUMILUX Warm White	1B	1,700	165	165	17.5	2G10	10	4050300333601	B
DULUX F 24W/840	24	LUMILUX Cool White	1B	1,700	165	165	17.5	2G10	10	4050300333588	B
DULUX F 36W/827	36	LUMILUX INTERNA	1B	2,800	217	217	17.5	2G10	10	4050300312187	B
DULUX F 36W/830	36	LUMILUX Warm White	1B	2,800	217	217	17.5	2G10	10	4050300299051	B
DULUX F 36W/840	36	LUMILUX Cool White	1B	2,800	217	217	17.5	2G10	10	4050300299037	B

OSRAM CFL SQUARE® 2-PIN – FOR CONVENTIONAL CONTROL GEAR (CCG)

OSRAM CFL SQUARE® 4-PIN – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering group (group)	Luminous flux (lm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM CFL SQUARE® 2-Pin								
CFL SQUARE 16W/827 2-PIN	16	LUMILUX INTERNA	1B	1,050	GR8	20	4050300816852	B
CFL SQUARE 16W/835 2-PIN	16	LUMILUX White	1B	1,050	GR8	20	4050300816838	B
CFL SQUARE 28W/827 2-PIN	28	LUMILUX INTERNA	1B	2,050	GR8	20	4050300816913	B
CFL SQUARE 28W/835 2-PIN	28	LUMILUX White	1B	2,050	GR8	20	4050300816937	B

OSRAM CFL SQUARE® 4-Pin

CFL SQUARE 16W/827 4-PIN	16	LUMILUX INTERNA	1B	1,050	GR10q	20	4050300816890	B
CFL SQUARE 16W/835 4-PIN	16	LUMILUX White	1B	1,050	GR10q	20	4050300816876	B
CFL SQUARE 28W/827 4-PIN	28	LUMILUX INTERNA	1B	2,050	GR10q	20	4050300816951	B
CFL SQUARE 28W/835 4-PIN	28	LUMILUX White	1B	2,050	GR10q	20	4050300816982	B
CFL SQUARE 38W/827 4-PIN	38	LUMILUX INTERNA	1B	2,700	GR10q	20	4050300817002	B
CFL SQUARE 38W/835 4-PIN	38	LUMILUX White	1B	2,700	GR10q	20	4050300817026	B

Reference	Length A (mm)	Length B (mm)	Length C (mm)	Length D (mm)	Length E (mm)	Length F (mm)	Length G (mm)
CFL SQUARE 16W	max. 138.0	max. 141.0	max. 27.5	max. 15.0	max. 41.0	max. 40.0	49.0/51.0
CFL SQUARE 28W	max. 205.0	max. 207.0	max. 33.0	max. 24.0	max. 41.0	max. 49.0	74.0/77.0
CFL SQUARE 38W	max. 205.0	max. 207.0	max. 33.0	max. 24.0	max. 41.0	max. 49.0	74.0/77.0

TECHNICAL DATA

Lamp	Lamp voltage		Lamp current		System wattage ECG operation ¹ (W)	Luminance cd/cm ² LF 827,830,840	Compensation	
	at 50/60Hz (V)	for HF operation (V)	at 50/60Hz (mA)	in HF operation (mA)			Parallel capacitor ² CCG operation 230V/50Hz µF	Series capacitor ³ CCG opera- tion µF
CFL SQUARE 16 W	103	84	195	180	–	–	–	–
CFL SQUARE 28 W	108	97	320	280	–	–	–	–
CFL SQUARE 38 W	110	96	430	380	–	–	–	–
DULUX [®] S 5 W	35	–	180	–	–	2.5	2.2	–
DULUX [®] S 7 W	47/45	–	175/180	–	–	2.6	2.1	–
DULUX [®] S 9 W	60/59	–	170/180	–	–	2.8	2.0	–
DULUX [®] S 11 W	91/–	–	155/–	–	–	2.7	1.7	–
DULUX [®] D 10 W	64	–	190	–	–	4.0	2.2	1.4
DULUX [®] D 13 W	91	–	175	–	–	4.0	1.8	1.4
DULUX [®] D 18 W	100	–	220	–	–	4.5	2.2	1.7
DULUX [®] D 26 W	105	–	325	–	–	5.5	3.2	2.5
DULUX [®] D ES 16 W	85	–	235	–	–	4.3	2.2	1.7
DULUX [®] D ES 23 W	90	–	340	–	–	4.3	3.2	2.5
DULUX [®] T 13 W	91	–	175	–	–	4.2	1.8	1.4
DULUX [®] T 18 W	100	–	225	–	–	4.7	2.3	1.7
DULUX [®] T 26 W	105	–	325	–	–	6.0	3.3	2.5
DULUX [®] S/E 7 W	–	37	–	175	9	2.6	–	–
DULUX [®] S/E 9 W	–	48	–	170	12	2.8	–	–
DULUX [®] S/E 11 W	–	75	–	150	14	2.7	–	–
DULUX [®] D/E 10 W	–	51	–	190	12	4.0	–	–
DULUX [®] D/E 13 W	–	77	–	165	14	4.0	–	–
DULUX [®] D/E 18 W ⁴	–	80	–	210	20	4.5	–	–
DULUX [®] D/E 26 W ⁴	–	80	–	300	28	5.5	–	–
DULUX [®] T/E 13 W	–	77	–	165	14	4.2	–	–
DULUX [®] T/E 18 W	–	80	–	210	20	4.7	–	–
DULUX [®] T/E 26 W ⁵	–	80	–	300	28	6.0	–	–
DULUX [®] T/E 32 W ^{4,5}	–	100	–	320	35	6.5	–	–
DULUX [®] T/E 42 W ^{4,5}	–	135	–	320	46	7.0	–	–
DULUX [®] T/E HE 11 W	–	80	–	150	13.5	3.0	–	–
DULUX [®] T/E HE 14 W	–	100	–	150	17.1	3.0	–	–
DULUX [®] T/E HE 17 W	–	120	–	150	18.8	3.0	–	–
DULUX [®] L 18 W ^{4,6}	58	50	375	320	19	2.1	4.2	2.7
DULUX [®] L 24 W ^{4,6}	87	75	345	300	27	2.1	3.6	2.7
DULUX [®] L 36 W ^{4,6}	106	90	435	360	39	2.8	4.4	3.4
DULUX [®] L 40 W ⁵	–	126	–	320	45	2.3	–	–
DULUX [®] L 55 W ^{4,5}	–	101	–	550	61	3.2	–	–
DULUX [®] L 80 W ⁵	–	145	–	555	86	3.7	–	–
DULUX [®] L HE 16 W	–	u.c.	–	170	u.c.	u.c.	–	–
DULUX [®] L HE 22 W	–	u.c.	–	170	u.c.	u.c.	–	–
DULUX [®] L HE 26 W	–	u.c.	–	170	u.c.	u.c.	–	–
DULUX [®] L HE 28 W	–	146	–	190	31	1.9	–	–
DULUX [®] F 18 W	58	50	375	320	19	2.4	4.2	2.7
DULUX [®] F 24 W	87	75	345	300	27	2.5	3.6	2.7
DULUX [®] F 36 W	106	90	435	360	39	3.0	4.4	3.4

¹ ECG also available in two-lamp version.

For detailed technical information see the "Technical Guides".

² Design for $\cos \phi = 0.95$, dielectric strength of the capacitors 250 V ac, capacitance tolerance $\pm 10\%$.

³ To maintain the specified operating and preheating values, closetolerance capacitors ($\pm 2\%$) and series reactors ($\pm 1.5\%$) are required for series compensation. Check the product ranges of leading manufacturers. Dielectric strength of the capacitors 450 V ac.

⁴ Also applies to the XT version.

⁵ Also applies to the CONSTANT version.

⁶ Also applies to the SP version at $+5^\circ\text{C}$.

Global presence.

OSRAM supplies customers in 148 countries

- 85 companies and sales offices for 122 countries
- 26 countries served by local agents or OSRAM GmbH, Munich

OSRAM associated companies and support centers.

Albania	Lithuania
Argentina	Macedonia
Australia	Malaysia
Austria	Mexico
Bosnia-Herzegovina	Moldavia
Brazil	Netherlands
Bulgaria	Norway
Canada	Pakistan
Chile	Peru
China	Philippines
Columbia	Poland
Croatia	Portugal
Czech Republic	Rumania
Denmark	Russia
Ecuador	Saudi Arabia
Egypt	Serbia
Estonia	Singapore
Finland	Slovakia
France	South Africa
Georgia	Spain
Germany	Sweden
Great Britain	Switzerland
Greece	Taiwan
Hungary	Thailand
India	Tunesia
Indonesia	Turkey
Iran	Ukraine
Italy	USA
Japan	Uzbekistan
Kazakhstan	United Arab Emirates
Kenya	Vietnam
Korea	White Russia
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