



# Lamps & Lighting Electronics Catalogue

**PHILIPS**



# See what light can do

Philips prides itself for being at the forefront of technology and innovation. As the world leader in lighting we continue to expand the depth and scope of our range of lighting solutions to help customers realise their creative ambitions in a project or business environment.

With this in mind, the book you are about to read and use has also been designed around our customers to help make the right lighting choice. We invite you to have a look at the following pages to see how we are applying our expertise to inspire you.

Whether you are looking to 'Be Inspired' by light, or 'Be Informed' on technical specification information, we present to you new and exciting innovations applied in many different applications in a simple and accessible way.

We believe light is potential – light is possibility, and we are bringing those possibilities to life.

# **Compact Fluorescent Integrated**

## Energy Saver Stick shape

### MASTER PL-Electronic



- The perfect choice for end users that demand the best performance and reliability
- Average lifetime 15 times longer than an incandescent lamp
- European energy efficiency labelling class A for the complete range
- Very good lumen maintenance throughout the lifetime of the lamp
- Complete range equipped with the unique Philips bridged burner technology (Mercury)
- Very low mercury content ( $\leq 2$  mg)

#### Product Benefits

- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output

- Smallest dimensions ensuring optimal physical fit
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and/or where lamp replacement is difficult
- The unique bridged burner results in an excellent run-up time with very high initial light output and better thermal performance
- Green Flagship product as best environmental choice in the CFL portfolio
- Lifetime independent of switching on-off
- Lowest total cost of ownership

#### Applications:

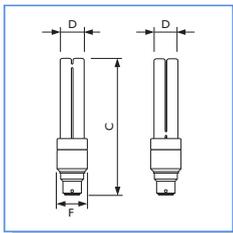
- Designed to replace incandescent lamps in most professional and semi-professional applications
- Mainly indoor (e. g. hotels, restaurants, offices)
- For outdoor applications 3 types (15, 20, 23 W) will remain available also in Amalgam with the benefit of virtually constant light output (>90%) over the recommended temperature
- Enclosed fixtures are required for outdoor applications
- Suitable for emergency lighting with DC supply
- Not suitable for dimming and electronic devices

#### Product Description

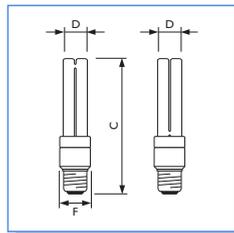
- Non-covered energy-saving MASTER lamps for professional use

#### Product Features

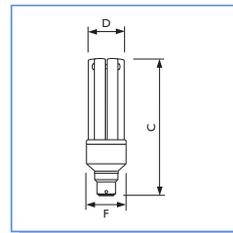
- Lightweight, superior long-life alternative to incandescent lamps



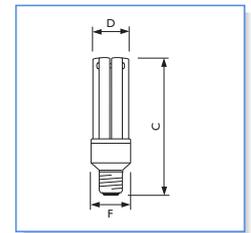
Dim. no.	C max.	D max.	E max.	F max.
1	117.4	28	40.3	40.3
2	139.4	28	40.3	40.3



Dim. no.	C max.	D max.	E max.	F max.
3	119.2	28	40.3	40.3
4	141.2	28	40.3	40.3



Dim. no.	C max.	D max.	E max.	F max.
5	124.7	39.6	48	48
6	135.7	39.6	48	48
7	150.7	39.6	48	48



Dim. no.	C max.	D max.	E max.	F max.
8	126.2	39.6	48	48
9	137.2	39.6	48	48
10	152.2	39.6	48	48
11	174.2	39.6	48	48
12	196.2	39.6	48	48

### MASTER PL-Electronic 230-240V Warm white

Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Energy Class	Lamp Luminous Flux (lm)	Rated Lifetime (hours)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	
8W/827	BC	2,700	A	432	15,000	1	ICT / 10BOX	10	<b>8BCPLE</b>	<b>26363625</b>	yes
8W/827	ES	2,700	A	432	15,000	3	ICT / 10BOX	10	<b>8ESPLE</b>	<b>26358225</b>	yes
11W/827	BC	2,700	A	600	15,000	2	ICT / 10	10	<b>11BCPLE</b>	<b>26375925</b>	yes
11W/827	ES	2,700	A	600	15,000	4	ICT / 10BOX	10	<b>11ESPLE</b>	<b>26368125</b>	yes
15W/827	BC	2,700	A	875	20,000	5	ICT / 6	6	<b>15BCPLE</b>	<b>75205510</b>	yes
15W/827	ES	2,700	A	875	20,000	8	ICT / 6	6	<b>15ESPLE</b>	<b>75142310</b>	yes
20W/827	BC	2,700	A	1,200	20,000	6	ICT / 6	6	<b>20BCPLE</b>	<b>75206210</b>	yes
20W/827	ES	2,700	A	1,200	20,000	9	ICT / 6	6	<b>20ESPLE</b>	<b>75143010</b>	yes
23W/827	BC	2,700	A	1,500	20,000	7	ICT / 6	6	<b>23BCPLE</b>	<b>75207910</b>	yes
23W/827	ES	2,700	A	1,500	20,000	10	ICT / 6	6	<b>23ESPLE</b>	<b>75144710</b>	yes
27W/827	ES	2,700	A	1,800	20,000	11	ICT / 6	6	<b>27ESPLE</b>	<b>54385110</b>	yes
33W/827	ES	2,700	A	2,250	20,000	12	ICT / 6	6	<b>33ESPLE</b>	<b>65999610</b>	yes

## Genie ESaver



### Product Description

- Standard Non-covered energy saving lamp

### Product Features

- Long-life alternative to incandescent lamps
- Almost instant, flicker-free start (<1s)
- Light output after 1 minute 85%

- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C

- Flawless ignition at -20°C and up.

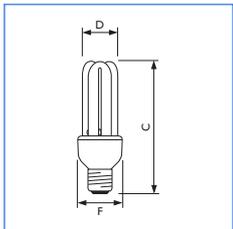
### Product Benefits

- High energy efficiency (European energy efficiency labelling class A)

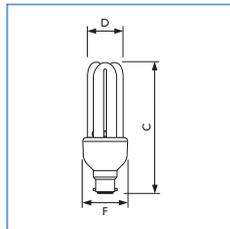
### Applications:

- Designed for incandescent lamp replacement in consumer applications where the lamp is not directly visible

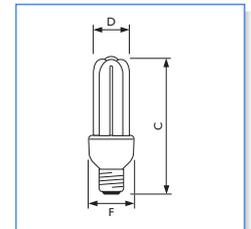
- Especially suitable for (indoor) applications in functional areas
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	F max.
1	107	35	44.4
2	117	35	44.4
3	132	35	44.4



Dim. no.	C max.	D max.	F max.
4	130.5	35	44.4



Dim. no.	C max.	D max.	F max.
5	135	41	48.4

## Genie ESaver 220-240V Warm white

Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Energy Star	Rated Lifetime (hours) (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Recycling
8W/827	ES	2,700	A	10,000	1	IPF / 6 6	<b>8ESGENIE10Y</b>	<b>80118010</b>	yes
11W/827	ES	2,700	A	10,000	2	IPF / 6 6	<b>11ESGENIE10Y</b>	<b>80119710</b>	yes
14W/827	ES	2,700	A	10,000	3	IPF / 6 6	<b>14ESGENIE10Y</b>	<b>80120310</b>	yes
14W/827	BC	2,700	A	10,000	4	IPF / 6 6	<b>14BCGENIE10Y</b>	<b>80124110</b>	yes
18W/827	ES	2,700	A	10,000	5	IPF / 6 6	<b>18ESGENIE8Y</b>	<b>80121010</b>	yes

## GENIE



### Our Europe's no 1 Energy Saver

Energy saving lamp with stick shape. This lamp gives you beautiful light with saving money.

### Product Features

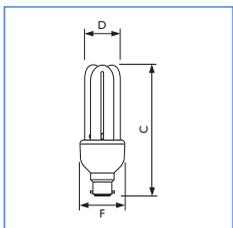
- Long lifetime
- Almost instant, flicker-free start
- Saves up by 80%
- Low mercury content

### Product Benefits

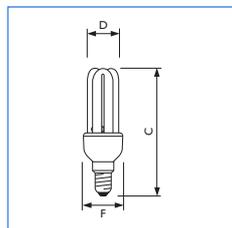
- Rapid start
- High energy efficiency

### Application

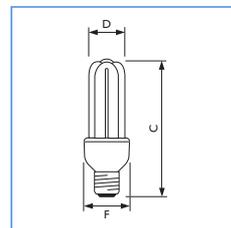
- Designed for incandescent lamp replacement in consumer applications where the lamp is not directly visible.
- Especially suitable for indoor applications in functional areas.



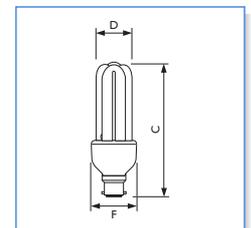
Dim. no.	C max.	D max.	F max.
1	105.5	35	44.4
2	115.5	35	44.4



Dim. no.	C max.	D max.	F max.
3	112	35	44.4



Dim. no.	C max.	D max.	F max.
4	135	41	48.4



Dim. no.	C max.	D max.	F max.
5	133.5	41	48.4

## GENIE 220-240V Warm white

Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Energy Star	Rated Lifetime (hours) (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871016322406010	Recycling
8W/827	BC	2,700	A	10,000	1	IPF / 6 6	<b>8BCGENIE10Y</b>	<b>871016322406010</b>	yes
8W/827	SES	2,700	A	10,000	3	IPF / 12 12	<b>8SEGENIESRP</b>	<b>871150080115901</b>	yes
11W/827	BC	2,700	A	10,000	2	IPF / 6 6	<b>11BCGENIE10Y</b>	<b>871016322407710</b>	yes
18W/827	ES	2,700	A	10,000	4	IPF / 12 12	<b>18SEGENIESRP</b>	<b>871150080121000</b>	yes
18W/827	BC	2,700	A	10,000	5	IPF / 6 6	<b>18WBCGENIE10Y</b>	<b>871016322409110</b>	yes

## Energy Saver Bulb shape

### MASTER PL-Electronic Polar



- Amalgam technology enabling excellent, virtually constant lumen performance in a wide range of ambient temperatures
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime 15 times longer than an incandescent lamp
- Very good lumen maintenance throughout the lifetime of the lamp
- Complete range equipped with the unique Philips bridged burner technology
- Very low mercury content ( $\leq 2$  mg)
- European energy efficiency label A for the complete range

#### Product Description

- Covered energy-saving MASTER lamps for professional use in outdoor applications

#### Product Features

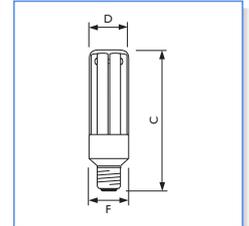
- Long-life alternative to incandescent lamps

#### Product Benefits

- Very good performance in the lower ambient temperature range (the lamp gives no less than 90% of nominal lumen in temperatures between  $-20$  to  $+40$  °C), rendering the lamp especially suitable for outdoor applications
- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and/or where lamp replacement is difficult
- Lifetime independent of switching on-off
- Green Flagship product as best environmental choice in the CFL portfolio
- Lowest total cost of ownership

#### Applications

- Designed to replace incandescent lamps in most professional and semi-professional applications
- Outdoor (e. g. outdoor hotel lighting, parking lots, restaurant/café gardens, patios, garden/lawn lighting)
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



C	D	E	F
max.	max.	max.	max.
132	50.8	50.8	48

### MASTER PL-Electronic Polar 230-240V Warm white ES

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux (lm)	Rated Lifetime (hours) (h)	Packing type/ Packing configuration	National Order Code	Ordering number 87 11 500...	
15W/827	2,700	A 875	20,000	1CH / 6 6	<b>MPLE15ESPOL</b>	<b>66045910</b>	yes

## MASTERAmbiance



#### Energy Saving for professional applications

Designed for incandescent lamp replacement in professional applications (hotels, restaurants, where you want to create an intimate and cozy atmosphere).

#### Product Features

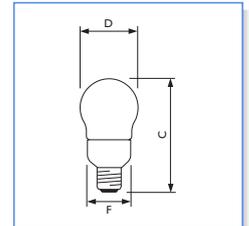
- Professional long-life energy saving alternative to incandescent lamps
- Almost instant, flicker-free start ( $<1$  s)
- 80% of nominal light output reached two minutes after switching on
- Almost constant light output ( $>90\%$ ) over recommended temperature range  $-20$  to  $+40$ °C

#### Product Benefits

- Light quality and distribution similar to the opalised incandescent lamps
- Gives a soft, diffused light with a high comfort level

#### Application

- Designed for incandescent lamp replacement in professional applications (hotels, restaurants, where you want to create an intimate and cosy atmosphere)
- Suitable for applications where lamp is visible
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C	D	E	F
1	max. 128.1	max. 65.8	max. 65.8	max. 48.1
2	137.1	65.8	65.8	48.1

### 230-240V Warm white ES

Type	Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux (lm)	Rated Lifetime (hours) (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 87 11 500...	
MASTERAmbiance	12W/827	2,700	A 630	12,000	1	1CH / 6 6	<b>I2ESAMB MST</b>	<b>46806200</b>	yes
MASTERAmbiance	16W/827	2,700	A 900	12,000	2	1CH / 6 6	<b>I6ESAMB MST</b>	<b>46810900</b>	yes

## Softone ESaver T-shape



### Product Description

- Extremely compact covered energy-saving lamp that produces soft white light

### Product Features

- Long-life and energy saving alternative to incandescent lamps
- Fast run-up: Light output after 1 minute 80%
- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C
- Flawless ignition at -20°C and up.

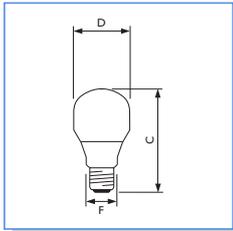
### Product Benefits

- Pleasant "Softone" light effect
- Shape and size similar to Softone incandescent bulb
- Up to 80% energy saving compared to standard incandescent lamps (European energy efficiency labeling class A)

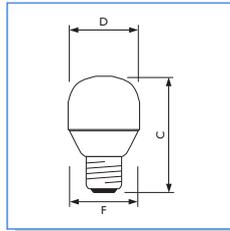
### Applications:

- Ideal for use in most consumer and semi-professional applications where you want to create an intimate and cosy atmosphere

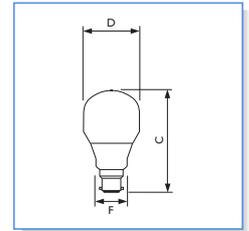
- Ideal replacement for incandescent lamps in places where lights burn for longer periods and where good light effect is important
- Especially suitable for applications where lamp replacement is difficult
- Closed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	E max.	F max.
1	114	60.8	60.8	46.5
2	129	65.8	65.8	46.5



Dim. no.	C max.	D max.	E max.	F max.
3	80	45	45	44.1



Dim. no.	C max.	D max.	E max.	F max.
4	112.5	60.8	60.8	46.5

## Softone ESaver 230-240V Warm white

Wattage/Colour Code	Cap-Base	Bulb	Colour Temperature (K)	Energy Class	Lamp Luminous Flux (lm)	Rated Lifetime (hours)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	Recycling symbol	
5W/827	ES	T60	2,700	A	200	10,000	1	IPH / 6	6	5ESSOFT10Y	871150066252/10	yes
7W/827	ES	T45	2,700	A	310	10,000	3	IPF / 10	10	7ESLUSTRE	872790021184925	yes
12W/827	BC	T60	2,700	A	610	10,000	4	IPF / 6	6	12BCSOFT10Y	8711500662613/10	yes
12W/827	ES	T60	2,700	A	610	10,000	1	IPF / 6	6	12ESSOFT10Y	8711500662576/10	yes
16W/827	ES	T60	2,700	A	870	10,000	1	IPF / 6	6	16ESSOFT10Y	8711500662583/10	yes
20W/827	ES	T65	2,700	A	1,160	10,000	2	IPF / 6	6	20ESSOFT10Y	8711500662590/10	yes

## Softone ESaver Candle



### Product Description

- Standard energy-saving lamps in the shape of an incandescent candle lamp

### Product Features

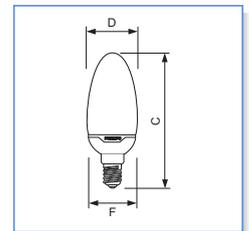
- Long average lifetime compared to a standard incandescent lamp
- Almost instant, flicker-free start (<1 s)
- Light output after 1 minute 95%
- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C
- Flawless ignition at -20°C and up.

### Product Benefits

- Light quality and distribution similar to the opalised incandescent lamps
- Gives a soft, diffuse light with a high comfort level

### Applications:

- Designed for replacement of incandescent candle lamps in consumer applications
- Especially for applications where lamps is visible
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

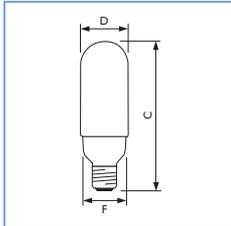


C max.	D max.	F max.
106	39.5	37.3

## Softone Candle 220-240V Warm white SES

Wattage/Colour Code	Colour Temperature (K)	Energy Class	Packing type/Packing configuration	Dim. no.	National Order Code	Ordering number	Recycling symbol
8W/827	2,700	A	IPF / 12	12	8WSESCANDLE10YR	89723400	yes

## SL-Electronic



Dim. no.	C max.	D max.	E max.	F max.
1	134.5	50.8	50.8	48.2
2	153.6	50.8	50.8	48.2
3	173.6	50.8	50.8	48.2

### Product Description

- Covered energy-saving lamps for professional use

### Product Features

- Professional long-life alternative to incandescent lamps
- Time to reach 80% of nominal light output is 2 min
- Almost constant light output (>90%) over recommended temperature range

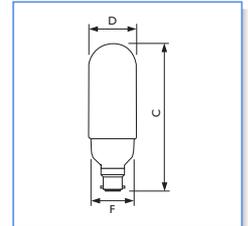
### Product Benefits

- Maximum energy savings due to highest energy efficiency class (European energy efficiency labelling class A)
- Prismatic cover designed to give sparkle and reduce glare

### Applications:

- Designed for incandescent lamp replacement in most professional luminaires

- Especially suitable for applications in functional areas where lighting is required for longer periods of time or where lamp replacement is difficult
- Ambient temperature range -20 to +55°C
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	E max.	F max.
4	151.9	50.8	50.8	48.2

## SL-Electronic Warm white

Wattage/Colour Code	Voltage (V)	Cap-Base	Colour Temperature (K)	Energy A	Lamp Luminous Flux (lm)	Rated Lifetime (hours)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Recycling symbol	
12W/827	230-240	ES	2,700	A	670	12,000	1	1CH / 6	6	<b>12ESSLE</b>	<b>54292200</b>	yes
16W/827	230-240	ES	2,700	A	960	12,000	2	1CH / 6	6	<b>16ESSLE</b>	<b>54296000</b>	yes
20W/827	220-240	ES	2,700	A	1,280	12,000	2	1CH / 6	6	<b>20ESSLE</b>	<b>54300400</b>	yes
20W/827	230-240	BC	2,700	A	1,280	12,000	4	1CH / 6	6	<b>20BCSLE</b>	<b>54302800</b>	yes
23W/827	230-240	ES	2,700	A	1,450	12,000	3	1CH / 6	6	<b>23ESSLE</b>	<b>54371400</b>	yes

## Energy Saver Reflectors

### PL-Electronic Reflector R80



- Professional long-life and energy-saving alternative to incandescent lamps

### Product Features

- High light intensity in a specific direction
- 80% of nominal light output reached within 2 minutes of switch-on
- Almost constant light output (>80%) over recommended temperature range (-20 to +55°C), both base-up and base-down

### Product Benefits

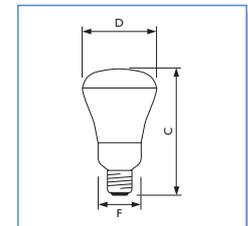
- 50% energy saving compared with standard incandescent lamps
- Direct replacement for R80 reflector lamps in numerous professional applications

- Light quality and distribution similar to opalised incandescent R80 reflector lamps

- High reliability, especially important where lighting is used for longer periods and/or where lamp replacement is difficult
- Lifetime independent of number of on/off switching cycles

### Applications:

- Direct replacement for R80 reflector lamps in numerous professional applications, e. g. hotels and restaurants as well as horticulture
- Dimming or electronic control devices cannot be used



C max.	D max.	E max.	F max.
143	81	81	48.1

### Product Description

- Energy-saving lamp approximating the shape of an R80 incandescent reflector lamp

## 230-240V Warm white ES

Wattage/Colour Code	Colour Temperature (K)	Energy A	Lamp Luminous Flux (lm)	Rated Lifetime (hours)	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Recycling symbol	
20W/827	2,700	A	750	10,000	1CT / 6	6	<b>20ESPLERFL</b>	<b>65989700</b>	yes