



*...life is brighter*





## Welcome to the latest catalogue from Fusion Lamps...

A very warm welcome to the new and eagerly awaited sixth edition of the Fusion Lamps catalogue. Fusion Lamps have been established now for over 20 years and have become a trusted and reliable source for one of the most extensive ranges of lamps available in the UK.

With over 1000+ product lines from stock, Fusion Lamps have been consistently one of the front runners in providing innovative, cost saving and maintenance saving solutions for its wide customer base. This includes its vast choice of LED options.

In this exciting new edition, Fusion Lamps covers every area of LED lamp replacements, whether domestic, commercial or industrial applications. In a very overcrowded supplier market place with much confusion and vast choice, this catalogue tries to provide the end user with a clear understanding of energy saving against existing applications, showing clear cost savings.

Fusion lamps fully appreciate the importance of service and availability in today's fast paced world of e-commerce and as such now offers an on line quotation facility on our website:

[fusion-lamps.co.uk](http://fusion-lamps.co.uk)



Fusion Lamps  
Millfield Industrial Estate,  
Arksey Lane, Bentley, Doncaster,  
South Yorkshire DN5 0SJ

So, whether it's via the website, or by speaking direct to one of our dedicated technical support team, please feel free to contact us at any time to discuss your energy saving requirements.



*...life is brighter*

Products offered for sale may differ from those described in this catalogue due to later production, changes in specification, components or place of manufacture.

Our policy is one of constant development and improvement. Whilst every effort is made to make the catalogue accurate at the date of printing, specification and/or appearance may be changed in the interest of continuing improvement.

Fusion Lamps would like to acknowledge the help and support of its staff, customers and suppliers in providing information towards the publication of this catalogue. All products are subject to availability and are correct at the time of print. Errors and omissions excepted.

Fusion Lamps reserve the right to change and/or update products and specifications without prior notice.  
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# INTRODUCTION



## CONTACT US...

### Technical Support

Fusion Lamps are proud to offer over 20 years' experience in technical support from our internal sales team. This technical support is also backed up by dedicated Business Development Managers who specialise in lamp solutions.



### Customer Service

Fusion Lamps has a dedicated department open from 7:30am to 5.30pm, 5 days a week, Monday to Friday. All staff are continuously trained to offer the highest quality service which we have become renowned for over the last 20 years. Our customers can be confident in our continued support.



### Delivery

With over 1000+ product lines available in stock, our experienced despatch team enable products to be delivered at a rapid pace!

## Phone | Email | Web | Social



**+44 (0)1302 822 833**

Our Sales Office & Technical Help Desk is open from 7.30am-5.30pm Monday-Friday.



**info@fusion-lamps.co.uk** For all general enquiries.



**fusion-lamps.co.uk**

For up-to-date information and technical specifications, please visit our website.



**@Fusion\_LandL** Follow us on Twitter for all of our latest News.

**YouTube Fusion Lamps and Luminaires**



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# Have you changed to LED?...

## Features & Benefits:

- Low power consumption
- Up to 95% energy saving
- Long lamp life (up to 30,000hrs) can last up to x30 times longer than incandescent lamps
- Up to 3 Year credible guarantee
- Low surface temperature
- No UV output
- Robust product
- Instant start, no warm-up period
- Operating temperature -20°C to +40°C (ideal for cold environments)
- Environmentally friendly

As more traditional lamps are banned under the UK/ EU legislation, the conventional means of judging light output by wattage will be replaced by lumens.

A lumen is an amount of light emitted by a source.

## How much will LEDs save?

LED lamps can save up to 95% in energy consumption, plus maintenance and replacement lamp costs.

## Why do some LED's cost more than others?

Scan the QR Code to see the difference between high quality and poor quality built LED lamps.



Scan here to see a YouTube video.

## What are the different colour types?

The colour of lamps is measured on a temperature scale in Kelvins. The higher the Kelvin, the cooler the colour.

The lower the Kelvin, the warmer the colour - i.e. 3000K incandescent is warm/orange in colour.



## Benefits of Retrofit Lamps

Over recent years, the introduction of LED technology has given customers a choice to make if they wish to change to this energy and maintenance saving solution.

The choice is, 'do I go for an LED fixture with a built-in light source or alternatively go for a retrofit LED lamp?'

Below are just a few reasons to choose retrofit LED lamps over LED fixtures complete:

**Cost Effective & Quicker Return on Investment:** LED lamps are a much more cost effective solution, which usually leads to a quicker return on investment.

**Ease & Cost of Installation:** Retrofitting LED lamps is often as easy as taking the old lamp out and putting the new lamp in – typically resulting in low or no associated installation costs.

## Easily Maintained & Low Cost of Maintenance:

When an LED lamp comes to the end of its life, simply remove and replace it. No need to worry about the costs of electrical or cosmetic work usually associated with changing complete LED fixtures.



Enclosed within this brochure  
**are many options to**  
 decrease **both**  
**energy and**  
 maintenance costs...



With ever increasing energy costs and associated environmental issues, it has never been more important to consider energy efficient lamp sources.

The Fusion range of LED lamps have the benefit of extended lamp life, together with low running costs and reduced maintenance, resulting in energy savings up to 95% when compared to inefficient counterparts.

These savings are clearly stated along with the technical specification of each lamp. By simply retrofitting Fusion LED lamps, you can reduce your lighting costs and together, we can help to protect the environment.

*...life is brighter*



## Energy Saving Values

**Energy Saving Values  
 per lamp over 25,000 hours**

£382.50

5W LED GU10 = £42.50  
 50W Halogen GU10 = £425

- LED lamp life
- Monetary saving
- LED lamp running cost
- Comparative lamp running cost

**Note:** Savings do not include cost of replacement lamps, or maintenance costs. All figures are based on an electricity charge of £0.34 per kWh.

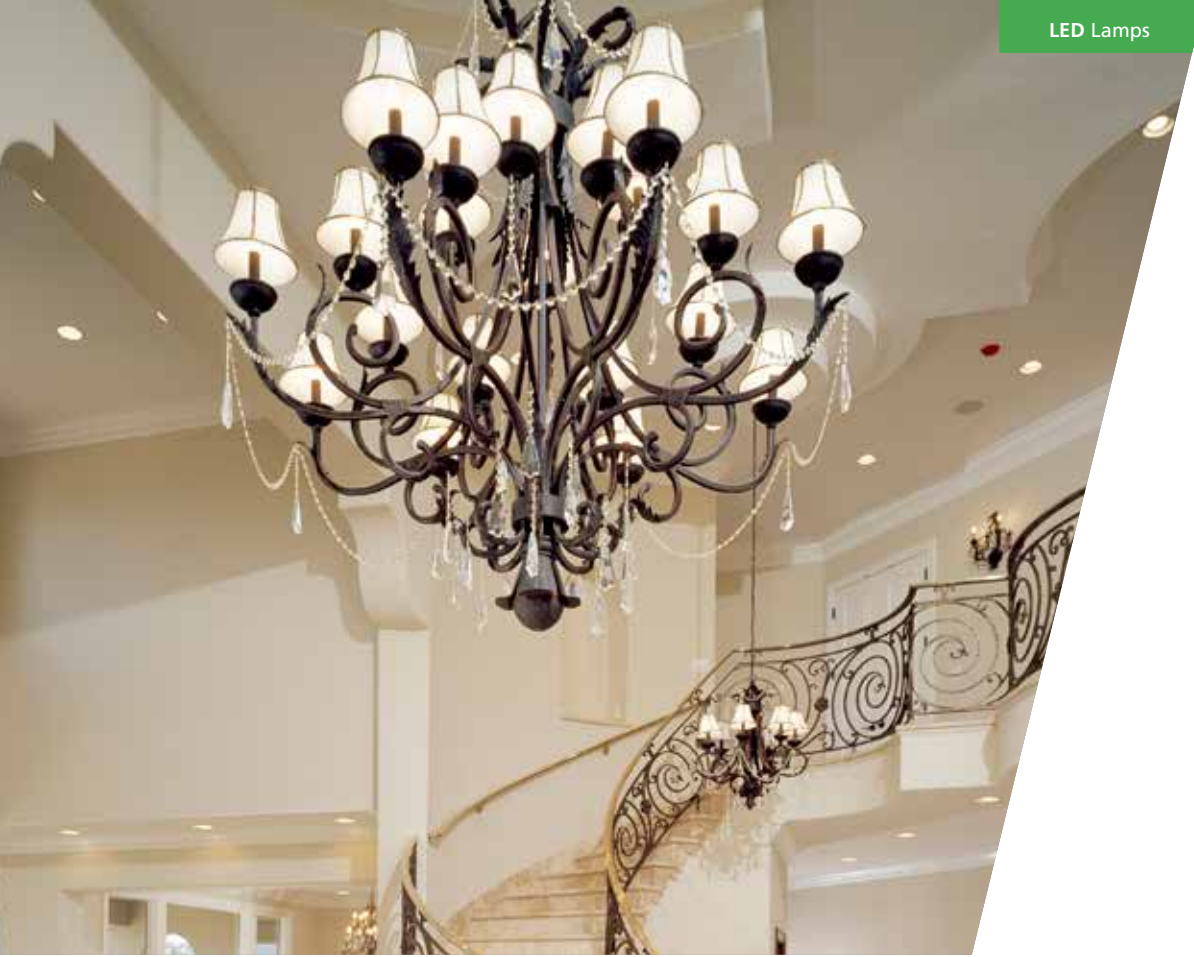


LED Luminaires  
 and Retrofit Bulbs  
 Licensing Program

Member  
 Fusion Lamps







## Candle Range

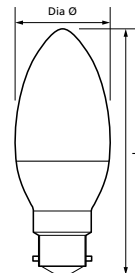


## CANDLE Range

## Essential Range 3W Candle

## Features and Benefits

- Up to 90% energy savings
- Polycarbonate cover
- Suitable replacement for a 25W incandescent lamp



FC3SES/OP



FC3BC/OP

Energy Saving Values  
per lamp over 15,000 hours

**£112.20**

3W LED Candle = £15.30  
25W Incandescent  
Candle = £127.50

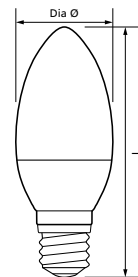
Product Ref	Watts (W)	Voltage Rating (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
FC3BC/OP	3	230	B22	15,000	260lm	260lm	2700K Warm White	180	No	102	37	F
FC3ES/OP	3	230	E27	15,000	260lm	260lm	2700K Warm White	180	No	102	37	F
FC3SBC/OP	3	230	B15	15,000	260lm	260lm	2700K Warm White	180	No	100	37	F
FC3SES/OP	3	230	E14	15,000	260lm	260lm	2700K Warm White	180	No	100	37	F



## Essential Range 6W Candle

### Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 40W incandescent lamp



FC6ES/OP



FC6SBC/OP

Energy Saving Values  
per lamp over 15,000 hours

**£173.40**

6W LED Candle = £30.60  
40W Incandescent  
Candle = £204.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)	(mm)	
FC6BC/OP	6	230	B22	15,000	525lm	525lm	2700K Warm White	180	No	100	38	F
FC6ES/OP	6	230	E27	15,000	525lm	525lm	2700K Warm White	180	No	100	38	F
FC6SBC/OP	6	230	B15	15,000	525lm	525lm	2700K Warm White	180	No	100	38	F
FC6SES/OP	6	230	E14	15,000	525lm	525lm	2700K Warm White	180	No	100	38	F
FC6BC/OP/D	6	230	B22	15,000	525lm	525lm	2700K Warm White	180	Yes	100	38	F
FC6ES/OP/D	6	230	E27	15,000	525lm	525lm	2700K Warm White	180	Yes	100	38	F
FC6SES/OP/D	6	230	E14	15,000	525lm	525lm	2700K Warm White	180	Yes	100	38	F
FC6BC/OP/CW	6	230	B22	15,000	550lm	550lm	4000K Cool White	180	No	100	38	F
FC6ES/OP/CW	6	230	E27	15,000	550lm	550lm	4000K Cool White	180	No	100	38	F
FC6SBC/OP/CW	6	230	B15	15,000	550lm	550lm	4000K Cool White	180	No	100	38	F
FC6SES/OP/CW	6	230	E14	15,000	550lm	550lm	4000K Cool White	180	No	100	38	F

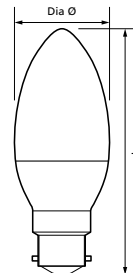


## CANDLE Range

## Essential Range 7W Candle

## Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 60W incandescent lamp



FC7SES/OP



FC7BC/OP

Energy Saving Values  
per lamp over 15,000 hours

**£270.30**

7W LED Candle = £35.70  
60W Incandescent  
Candle = £306.00

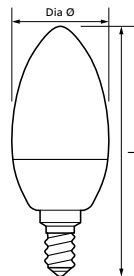
Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
FC7BC/OP	7	230	B22	15,000	806lm	806lm	2700K Warm White	150	No	112	38	E
FC7ES/OP	7	230	E27	15,000	806lm	806lm	2700K Warm White	150	No	112	38	E
FC7SBC/OP	7	230	B15	15,000	806lm	806lm	2700K Warm White	150	No	113	38	E
FC7SES/OP	7	230	E14	15,000	806lm	806lm	2700K Warm White	150	No	113	38	E



## 5W Candle - Clear

### Features and Benefits

- Up to 90% energy savings
- Polycarbonate cover
- Suitable replacement for a 40W incandescent lamp



CRLED/CAN/BC/CL



CRLED/CAN/SES/CL/DIM

Energy Saving Values  
per lamp over 25,000 hours

**£297.50**

5W LED Candle = £42.50  
40W Incandescent  
Candle = £340.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
CRLED/CAN/BC/CL	5	230	B22	25,000	420lm	420lm	2700K Warm White	170	No	95	35	G
CRLED/CAN/ES/CL	5	230	E27	25,000	420lm	420lm	2700K Warm White	170	No	95	35	G
CRLED/CAN/SBC/CL	5	230	B15	25,000	420lm	420lm	2700K Warm White	170	No	105	35	G
CRLED/CAN/SES/CL	5	230	E14	25,000	420lm	420lm	2700K Warm White	170	No	105	35	G
CRLED/CAN/BC/CL/DIM	5	230	B22	25,000	420lm	420lm	2700K Warm White	170	Yes	95	35	G
CRLED/CAN/ES/CL/DIM	5	230	E27	25,000	420lm	420lm	2700K Warm White	170	Yes	95	35	G
CRLED/CAN/SBC/CL/DIM	5	230	B15	25,000	420lm	420lm	2700K Warm White	170	Yes	105	35	G
CRLED/CAN/SES/CL/DIM	5	230	E14	25,000	420lm	420lm	2700K Warm White	170	Yes	105	35	G



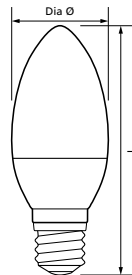
## 5W Candle - Opal

### Features and Benefits

- Up to 90% energy savings
- Polycarbonate cover
- Suitable replacement for a 40W incandescent lamp



CRLED/CAN/SBC



CRLED/CAN/ES

Energy Saving Values  
per lamp over 25,000 hours

**£297.50**

5W LED Candle = £42.50  
40W Incandescent  
Candle = £340.00

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
CRLED/CAN/BC	5	230	B22	25,000	470lm	470lm	2700K Warm White	150	No	95	35	F
CRLED/CAN/ES	5	230	E27	25,000	470lm	470lm	2700K Warm White	150	No	95	35	F
CRLED/CAN/SBC	5	230	B15	25,000	470lm	470lm	2700K Warm White	150	No	105	35	F
CRLED/CAN/SES	5	230	E14	25,000	470lm	470lm	2700K Warm White	150	No	105	35	F
CRLED/CAN/BC/DIM	5	230	B22	25,000	470lm	470lm	2700K Warm White	150	Yes	95	35	F
CRLED/CAN/ES/DIM	5	230	E27	25,000	470lm	470lm	2700K Warm White	150	Yes	95	35	F
CRLED/CAN/SBC/DIM	5	230	B15	25,000	470lm	470lm	2700K Warm White	150	Yes	105	35	F
CRLED/CAN/SES/DIM	5	230	E14	25,000	470lm	470lm	2700K Warm White	150	Yes	105	35	F
CRLED/CAN/BC/CW	5	230	B22	25,000	485lm	485lm	4000K Cool White	150	No	95	35	F
CRLED/CAN/ES/CW	5	230	E27	25,000	485lm	485lm	4000K Cool White	150	No	95	35	F
CRLED/CAN/SBC/CW	5	230	B15	25,000	485lm	485lm	4000K Cool White	150	No	105	35	F
CRLED/CAN/SES/CW	5	230	E14	25,000	485lm	485lm	4000K Cool White	150	No	105	35	F
CRLED/CAN/BC/CW/DIM	5	230	B22	25,000	485lm	485lm	4000K Cool White	150	Yes	95	35	F
CRLED/CAN/ES/CW/DIM	5	230	E27	25,000	485lm	485lm	4000K Cool White	150	Yes	95	35	F
CRLED/CAN/SBC/CW/DIM	5	230	B15	25,000	485lm	485lm	4000K Cool White	150	Yes	105	35	F
CRLED/CAN/SES/CW/DIM	5	230	E14	25,000	485lm	485lm	4000K Cool White	150	Yes	105	35	F





## Golfball Range

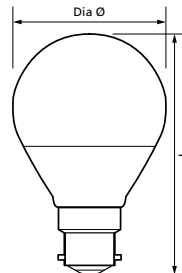


## GOLF BALL Range

## Essential Range 6W Golf Ball

## Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 40W incandescent lamp



FDR6BC/OP



FDR6SES/OP

Energy Saving Values  
per lamp over 15,000 hours

**£173.40**

6W LED Golf Ball = £30.60  
40W Incandescent  
Golf Ball = £204.60

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>FDR6BC/OP</b>	6	230	B22	15,000	525lm	525lm	2700K Warm White	220	No	80	45	F
<b>FDR6ES/OP</b>	6	230	E27	15,000	525lm	525lm	2700K Warm White	220	No	80	45	F
<b>FDR6SBC/OP</b>	6	230	B15	15,000	525lm	525lm	2700K Warm White	220	No	80	45	F
<b>FDR6SES/OP</b>	6	230	E14	15,000	525lm	525lm	2700K Warm White	220	No	80	45	F

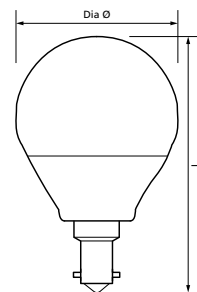




## 5W Golf Ball - Opal

### Features and Benefits

- Up to 90% energy savings
- Polycarbonate cover
- Suitable replacement for a 40W incandescent lamp



CRLED/G45/ES



CRLED/G45/SBC

Energy Saving Values  
per lamp over 25,000 hours

**£297.50**

5W LED Golf Ball = £42.50  
40W Incandescent  
Golf Ball = £340.00

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle*	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
CRLED/G45/BC	5	230	B22	25,000	470lm	470lm	2700K Warm White	150	No	82	45	F
CRLED/G45/ES	5	230	E27	25,000	470lm	470lm	2700K Warm White	150	No	82	45	F
CRLED/G45/SBC	5	230	B15	25,000	470lm	470lm	2700K Warm White	150	No	84	45	F
CRLED/G45/SES	5	230	E14	25,000	470lm	470lm	2700K Warm White	150	No	84	45	F
CRLED/G45/BC/DIM	5	230	B22	25,000	470lm	470lm	2700K Warm White	150	Yes	82	45	F
CRLED/G45/ES/DIM	5	230	E27	25,000	470lm	470lm	2700K Warm White	150	Yes	82	45	F
CRLED/G45/SBC/DIM	5	230	B15	25,000	470lm	470lm	2700K Warm White	150	Yes	84	45	F
CRLED/G45/SES/DIM	5	230	E14	25,000	470lm	470lm	2700K Warm White	150	Yes	84	45	F
CRLED/G45/BC/CW	5	230	B22	25,000	485lm	485lm	4000K Cool White	150	No	82	45	F
CRLED/G45/ES/CW	5	230	E27	25,000	485lm	485lm	4000K Cool White	150	No	82	45	F
CRLED/G45/SBC/CW	5	230	B15	25,000	485lm	485lm	4000K Cool White	150	No	84	45	F
CRLED/G45/SES/CW	5	230	E14	25,000	485lm	485lm	4000K Cool White	150	No	84	45	F
CRLED/G45/BC/CW/DIM	5	230	B22	25,000	485lm	485lm	4000K Cool White	150	Yes	82	45	F
CRLED/G45/ES/CW/DIM	5	230	E27	25,000	485lm	485lm	4000K Cool White	150	Yes	82	45	F
CRLED/G45/SBC/CW/DIM	5	230	B15	25,000	485lm	485lm	4000K Cool White	150	Yes	84	45	F
CRLED/G45/SES/CW/DIM	5	230	E14	25,000	485lm	485lm	4000K Cool White	150	Yes	84	45	F





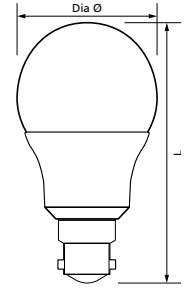
## GLS Range



# Essential Range 6W GLS

## Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 40W incandescent lamp
- Ideal for bedrooms, living rooms and other domestic applications



F6BCP



F6ESP

Energy Saving Values  
per lamp over 15,000 hours

**£173.40**

6W LED GLS = £30.60

40W Incandescent GLS = £204.00

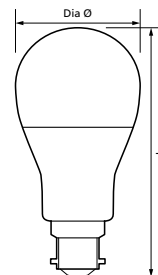
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
											(mm)	
F6BCP	6	230	B22	15,000	545lm	545lm	2700K Warm White	270	No	112	60	F
F6ESP	6	230	E27	15,000	545lm	545lm	2700K Warm White	270	No	112	60	F
F6BCP/CW	6	230	B22	15,000	560lm	560lm	4000K Cool White	270	No	112	60	F
F6ESP/CW	6	230	E27	15,000	560lm	560lm	4000K Cool White	270	No	112	60	F



## 6W GLS

### Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 40W incandescent lamp



CRLED/GLS6BC



CRLED/GLS6ES

Energy Saving Values  
per lamp over 25,000 hours

**£289.00**

6W LED GLS = £51.00  
40W Incandescent GLS = £340.00

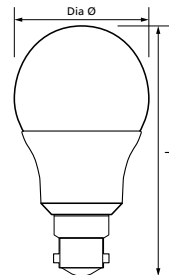
Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
CRLED/GLS6BC	6	230	B22	25,000	520lm	520lm	2700K Warm White	250	No	108	55	F
CRLED/GLS6ES	6	230	E27	25,000	520lm	520lm	2700K Warm White	250	No	109	55	F
CRLED/GLS6BC/DIM	6	230	B22	25,000	520lm	520lm	2700K Warm White	250	Yes	108	55	F
CRLED/GLS6ES/DIM	6	230	E27	25,000	520lm	520lm	2700K Warm White	250	Yes	109	55	F



# Essential Range 9.5W GLS

## Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 60W incandescent lamp



F9.5BCP



F9.5ESP

Energy Saving Values  
per lamp over 15,000 hours

**£257.55**

9.5W LED GLS = £48.45  
60W Incandescent GLS = £306.00

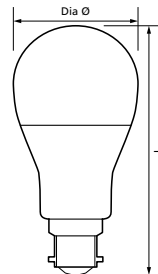
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>F9.5BCP</b>	9.5	230	B22	15,000	900lm	900lm	2700K Warm White	270	No	118	60	F
<b>F9.5ESP</b>	9.5	230	E27	15,000	900lm	900lm	2700K Warm White	270	No	118	60	F
<b>F9.5BCP/D</b>	9.5	230	B22	15,000	900lm	900lm	2700K Warm White	270	Yes	118	60	F
<b>F9.5ESP/D</b>	9.5	230	E27	15,000	900lm	900lm	2700K Warm White	270	Yes	118	60	F
<b>F9.5BCP/CW</b>	9.5	230	B22	15,000	915lm	915lm	4000K Cool White	270	No	118	60	F
<b>F9.5ESP/CW</b>	9.5	230	E27	15,000	915lm	915lm	4000K Cool White	270	No	118	60	F
<b>F9.5BCP 110V</b>	9.5	110	B22	15,000	900lm	900lm	2700K Warm White	270	No	118	60	F
<b>F9.5ESP 110V</b>	9.5	110	E27	15,000	900lm	900lm	2700K Warm White	270	No	118	60	F



## 8.5W GLS

### Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 60W incandescent lamp



CRLED/GLS8.5BC



CRLED/GLS8.5ES

Energy Saving Values  
per lamp over 25,000 hours

**£437.75**

8.5W LED GLS = £72.25  
60W Incandescent GLS = £510.00

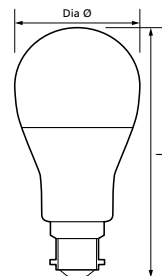
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
CRLED/GLS8.5BC	8.5	230	B22	25,000	810lm	810lm	2700K Warm White	250	No	116	60	F
CRLED/GLS8.5ES	8.5	230	E27	25,000	810lm	810lm	2700K Warm White	250	No	116	60	F
CRLED/GLS8.5BC/DIM	8.5	230	B22	25,000	810lm	810lm	2700K Warm White	250	Yes	116	60	F
CRLED/GLS8.5ES/DIM	8.5	230	E27	25,000	810lm	810lm	2700K Warm White	250	Yes	116	60	F
CRLED/GLS8.5BC/CW	8.5	230	B22	25,000	840lm	840lm	4000K Cool White	250	No	116	60	F
CRLED/GLS8.5ES/CW	8.5	230	E27	25,000	840lm	840lm	4000K Cool White	250	No	116	60	F
CRLED/GLS8.5BC/CW/DIM	8.5	230	B22	25,000	840lm	840lm	4000K Cool White	250	Yes	116	60	F
CRLED/GLS8.5ES/CW/DIM	8.5	230	E27	25,000	840lm	840lm	4000K Cool White	250	Yes	116	60	F
CRLED/GLS8.5BC 110V	8.5	110	B22	25,000	810lm	810lm	2700K Warm White	250	No	116	60	F
CRLED/GLS8.5ES 110V	8.5	110	E27	25,000	810lm	810lm	2700K Warm White	250	No	116	60	F



## 8.5W GLS with Dusk to Dawn Sensor

### Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 60W incandescent lamp
- Built-in dusk to dawn sensor



CRLED/GLS8.5BC/SEN



CRLED/GLS8.5ES/SEN

Energy Saving Values  
per lamp over 25,000 hours

**£437.75**

8.5W LED GLS = £72.25

60W Incandescent GLS = £510.00

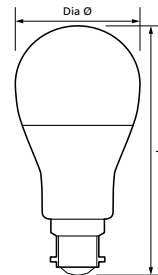
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L (mm)	Ø (mm)
CRLED/GLS8.5BC/SEN	8.5	230	B22	25,000	810lm	810lm	2700K Warm White	150	No	124	65
CRLED/GLS8.5ES/SEN	8.5	230	E27	25,000	810lm	810lm	2700K Warm White	150	No	124	65



## 9.5W GLS

### Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 75W incandescent lamp



CRLED/GLS9.5BC



CRLED/GLS9.5ES

Energy Saving Values  
per lamp over 25,000 hours

**£556.75**

9.5W LED GLS = £80.75  
75W Incandescent  
GLS= £637.50

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø
	(W)	(V)		(hrs)							
CRLED/GLS9.5BC	9.5	230	B22	25,000	1055lm	1055lm	2700K Warm White	250	No	122	65
CRLED/GLS9.5ES	9.5	230	E27	25,000	1055lm	1055lm	2700K Warm White	250	No	122	65
CRLED/GLS9.5BC/DIM	9.5	230	B22	25,000	1055lm	1055lm	2700K Warm White	250	Yes	122	65
CRLED/GLS9.5ES/DIM	9.5	230	E27	25,000	1055lm	1055lm	2700K Warm White	250	Yes	122	65

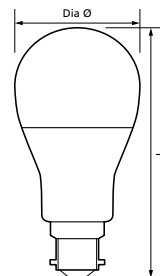




# 12.5W GLS

## Features and Benefits

- Up to 85% energy savings
- Polycarbonate cover
- Suitable replacement for a 100W incandescent lamp



CRLED/GLS12.5BC



CRLED/GLS12.5ES

Energy Saving Values  
per lamp over 25,000 hours

**£743.75**

12.5W LED GLS = £106.25  
100W Incandescent  
GLS= £850.00

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
CRLED/GLS12.5BC	12.5	230	B22	25,000	1521lm	1521lm	2700K Warm White	150	No	131	70	E
CRLED/GLS12.5ES	12.5	230	E27	25,000	1521lm	1521lm	2700K Warm White	150	No	131	70	E





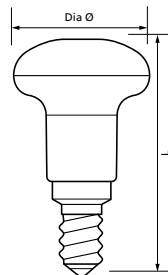
## Reflector Range



# Essential Range Reflector

## Features and Benefits

- Up to 95% energy savings
- Suitable replacements for R39/30W, R50/40W, R63/60W & R80/60W incandescent lamp



FR39



FR50

Energy Saving Values  
per lamp over 15,000 hours

**£137.70**

3W LED R39 = £15.30  
30W Incandescent R39 = £153.00

Energy Saving Values  
per lamp over 15,000 hours

**£178.50**

5W LED R50 = £25.50  
40W Incandescent R50 = £204.00

Energy Saving Values  
per lamp over 15,000 hours

**£270.30**

7W LED R63 = £35.70  
60W Incandescent R63 = £306.00

Energy Saving Values  
per lamp over 15,000 hours

**£255.00**

10W LED R80 = £51.00  
60W Incandescent R80 = £306.00

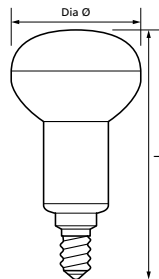
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
FR39	3	230	E14	15,000	180lm	180lm	2700K Warm White	120	No	67	39	G
FR50	5	230	E14	15,000	455lm	455lm	2700K Warm White	120	No	86	50	G
FR63	7	230	E27	15,000	640lm	640lm	2700K Warm White	120	No	106	63	G
FR80	10	230	E27	15,000	860lm	860lm	2700K Warm White	120	No	116	80	G



# Reflector

## Features and Benefits

- Up to 90% energy savings
- Suitable replacements for R39/30W, R50/40W, R63/60W & R80/60W incandescent lamp



CRLED/R39



CRLED/R63

Energy Saving Values  
per lamp over 25,000 hours

**£229.50**

3W LED R39 = £25.50  
30W Incandescent R39 = £255.00

Energy Saving Values  
per lamp over 25,000 hours

**£297.50**

5W LED R50 = £42.50  
40W Incandescent R50 = £340.00

Energy Saving Values  
per lamp over 25,000 hours

**£446.25**

7.5W LED R63 = £63.75  
60W Incandescent R63 = £510.00

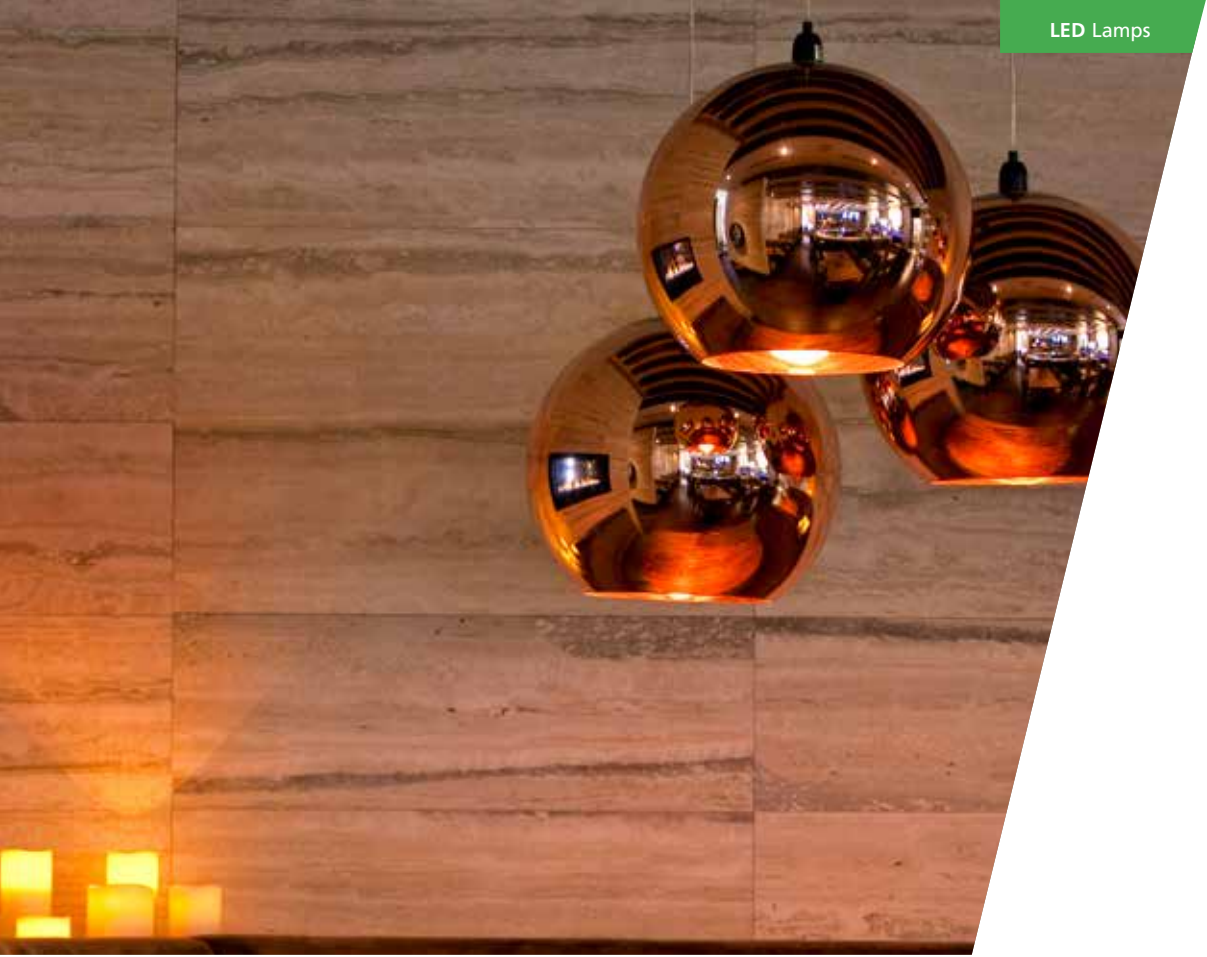
Energy Saving Values  
per lamp over 25,000 hours

**£433.50**

9W LED R80 = £76.50  
60W Incandescent R80 = £510.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)	(mm)	
CRLED/R39	3	230	E14	25,000	240lm	240lm	3000K Warm White	120	No	67	39	G
CRLED/R50	5	230	E14	25,000	400lm	400lm	3000K Warm White	120	No	86	50	G
CRLED/R50/DIM	5	230	E14	25,000	400lm	400lm	3000K Warm White	120	Yes	86	50	G
CRLED/R63	7.5	230	E27	25,000	700lm	700lm	3000K Warm White	120	No	105	63	F
CRLED/R63/DIM	7.5	230	E27	25,000	700lm	700lm	3000K Warm White	120	Yes	105	63	F
CRLED/R80	9	230	E27	25,000	860lm	860lm	3000K Warm White	120	No	116	80	F
CRLED/R80/DIM	9	230	E27	25,000	860lm	860lm	3000K Warm White	120	Yes	116	80	F





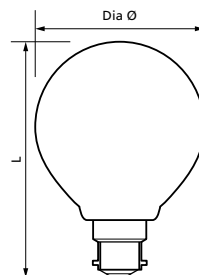
## Globe Range



# Globe

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 60W incandescent lamp
- Retro-fit size
- Ideal for decorative, retail and display lighting



Energy Saving Values  
per lamp over 15,000 hours

**£265.20**

8W LED G95 = £40.80  
60W Incandescent G95 = £306.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
EDLED/G95BC	8	230	B22	15,000	750lm	750lm	2700K Warm White	320	No	140	95	F
EDLED/G95ES	8	230	E27	15,000	750lm	750lm	2700K Warm White	320	No	140	95	F





## GU10 Range

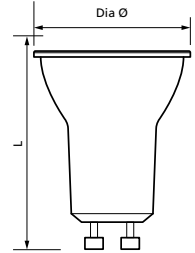


## GU10 Range

## 4W GU10 Mini

## Features and Benefits

- Up to 90% energy savings
- Suitable replacements for 35W halogen lamps
- Ideal for kitchens, living rooms and other domestic applications



FGU10/PAR11WW

Energy Saving Values  
per lamp over 20,000 hours

**£210.80**

4W LED GU10 = £27.20  
35W Halogen GU10 = £238.00

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)								(mm)	(mm)	
<b>FGU10/PAR11WW</b>	4	230	GU10	20,000	225lm	275lm	3000K Warm White	38	No	48	34	G

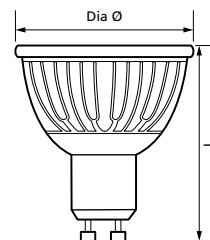




# Essential Range 3W GU10 - 10 Pack

## Features and Benefits

- Up to 95% energy savings
- Suitable replacements for 35W halogen lamps
- Ideal for kitchens, living rooms and other domestic applications



FGU10/WW/10P

Energy Saving Values  
per lamp over 20,000 hours

**£217.60**

3W LED GU10 = £20.40  
35W Halogen GU10 = £238.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
FGU10/WW/10P	3	230	GU10	20,000	250lm	300lm	3000K Warm White	38	No	56	50	F
FGU10/CW/10P	3	230	GU10	20,000	250lm	300lm	4000K Cool White	38	No	56	50	F

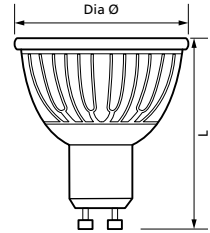


## GU10 Range

## Essential Range 5W GU10 - 10 Pack

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 50W halogen lamp
- Ideal for kitchens, living rooms and other domestic applications



FGU10/5WW/10P

Energy Saving Values  
per lamp over 20,000 hours

**£306.00**

5W LED GU10 = £34.00  
50W Halogen GU10 = £340.00

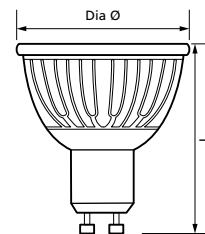
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
											(mm)	
FGU10/5WW/10P	5	230	GU10	20,000	320lm	350lm	3000K Warm White	38	No	56	50	G
FGU10/5CW/10P	5	230	GU10	20,000	300lm	350lm	4000K Cool White	38	No	56	50	G
FGU10/5DW/10P	5	230	GU10	20,000	300lm	350lm	6000K Daylight	38	No	56	50	G
FGU10/5WW/10P/D	5	230	GU10	20,000	420lm	500lm	3000K Warm White	38	Yes	56	50	F
FGU10/5CW/10P/D	5	230	GU10	20,000	420lm	500lm	4000K Cool White	38	Yes	56	50	F
FGU10/5DW/10P/D	5	230	GU10	20,000	420lm	500lm	6000K Daylight	38	Yes	56	50	F



# Essential Range 4W GU10

## Features and Benefits

- Up to 95% energy savings
- Suitable replacement for a 50W halogen lamp
- Ideal for general lighting (i.e. kitchens, bedrooms etc)



FGU10/WW

Energy Saving Values  
per lamp over 20,000 hours

**£312.80**

4W LED GU10 = £27.20  
50W Halogen GU10 = £340.00

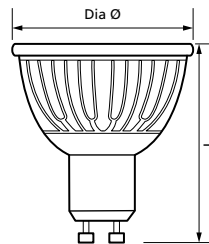
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>FGU10/WW</b>	4	230	GU10	20,000	310lm	350lm	3000K Warm White	30	No	56	50	F
<b>FGU10/CW</b>	4	230	GU10	20,000	310lm	350lm	4000K Cool White	30	No	56	50	F
<b>FGU10/DW</b>	4	230	GU10	20,000	310lm	350lm	6000K Daylight	30	No	56	50	F
<b>FGU10/WW/D</b>	4	230	GU10	20,000	340lm	370lm	3000K Warm White	38	Yes	56	50	F
<b>FGU10/CW/D</b>	4	230	GU10	20,000	345lm	380lm	4000K Cool White	38	Yes	56	50	F
<b>FGU10/DW/D</b>	4	230	GU10	20,000	350lm	390lm	6000K Daylight	38	Yes	56	50	F



## 5W Glass GU10

### Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 50W halogen lamp
- Looks just like a halogen GU10



FGU10/G/WW

Energy Saving Values  
per lamp over 15,000 hours

**£229.50**

5W LED GU10 = £25.50  
50W Halogen GU10 = £255.00

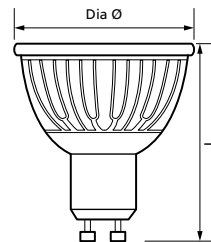
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
FGU10/G/WW	5	230	GU10	15,000	340lm	500lm	3000K Warm White	38	No	56	50	G
FGU10/G/CW	5	230	GU10	15,000	340lm	500lm	4000K Cool White	38	No	56	50	G
FGU10/G/WW/D	5	230	GU10	15,000	340lm	500lm	3000K Warm White	38	Yes	56	50	G
FGU10/G/CW/D	5	230	GU10	15,000	340lm	500lm	4000K Cool White	38	Yes	56	50	G



## 5W GU10 Flood & Wide Flood

### Features and Benefits

- Up to 90% energy savings
- Equivalent replacement for a 50W halogen lamp



EDLED/GU10/5WW

Energy Saving Values  
per lamp over 25,000 hours

**£382.50**

5W LED GU10 = £42.50  
50W Halogen GU10 = £425.00

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)										
EDLED/GU10/5WW	5	230	GU10	25,000	395lm	500lm	3000K Warm White	38	No	56	50	F
EDLED/GU10/5CW	5	230	GU10	25,000	400lm	510lm	4000K Cool White	38	No	56	50	F
EDLED/GU10/5DW	5	230	GU10	25,000	405lm	520lm	6000K Daylight	38	No	56	50	F
EDLED/GU10/5WW/DIM	5	230	GU10	25,000	395lm	500lm	3000K Warm White	38	Yes	56	50	F
EDLED/GU10/5CW/DIM	5	230	GU10	25,000	400lm	510lm	4000K Cool White	38	Yes	56	50	F
EDLED/GU10/5DW/DIM	5	230	GU10	25,000	405lm	520lm	6000K Daylight	38	Yes	56	50	F
EDLED/GU10WF/5WW	5	230	GU10	25,000	405lm	500lm	3000K Warm White	60	No	56	50	F
EDLED/GU10WF/5CW	5	230	GU10	25,000	410lm	510lm	4000K Cool White	60	No	56	50	F
EDLED/GU10WF/5WW/DIM	5	230	GU10	25,000	405lm	500lm	3000K Warm White	60	Yes	56	50	F
EDLED/GU10WF/5CW/DIM	5	230	GU10	25,000	410lm	510lm	4000K Cool White	60	Yes	56	50	F

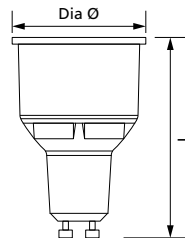


## GU10 Range

## 7W 74mm GU10

## Features and Benefits

- Up to 90% energy savings
- No UV output
- Suitable replacement for a 50W halogen lamp



FGU10WW/74MM

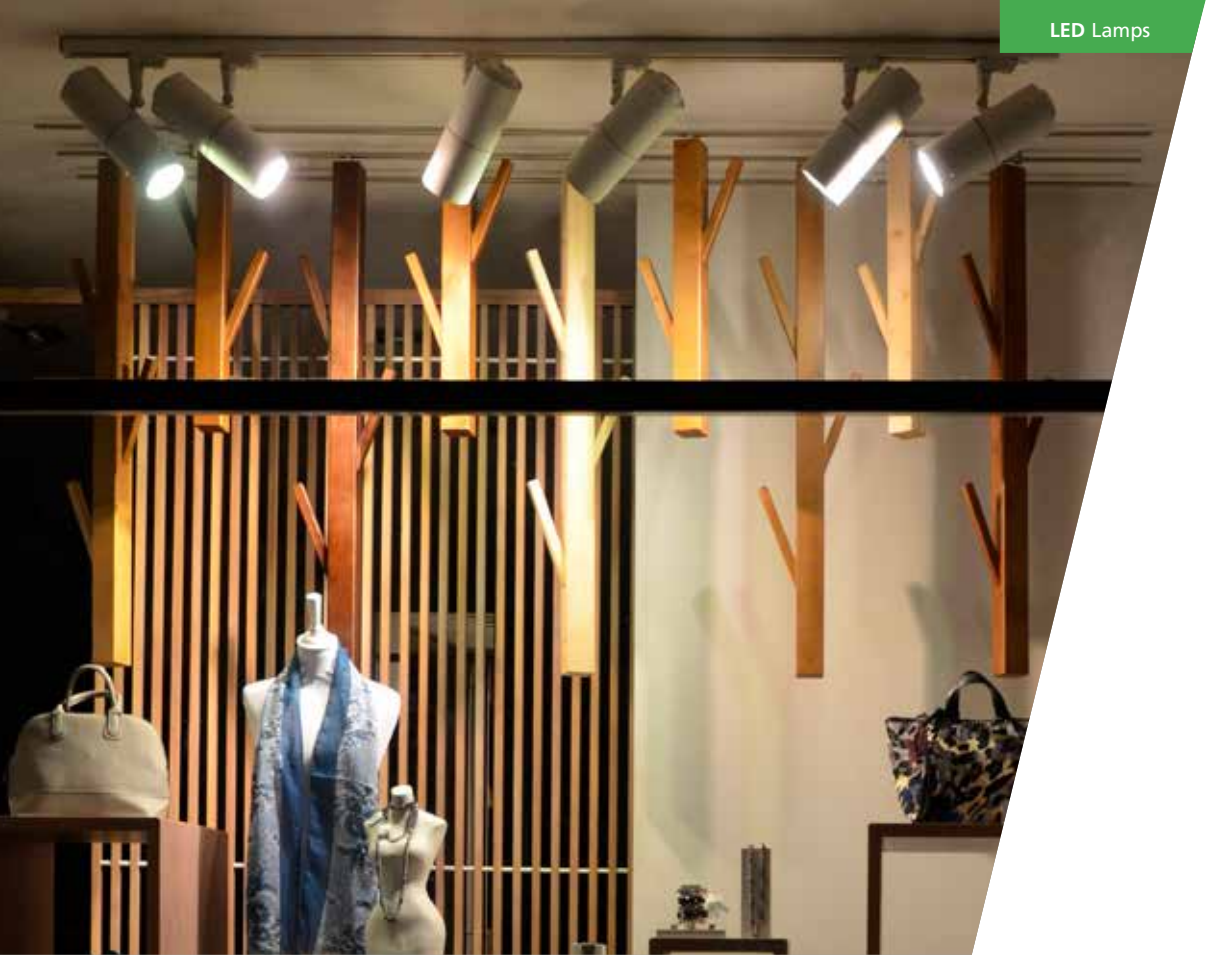
Energy Saving Values  
per lamp over 20,000 hours

**£292.40**

7W LED GU10 = £47.60  
50W Halogen GU10 = £340.00

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)								(mm)	(mm)	
<b>FGU10WW/74MM</b>	7	230	GU10	20,000	600lm	600lm	3000K Warm White	38	No	74	50	F
<b>FGU10CW/74MM</b>	7	230	GU10	20,000	600lm	600lm	4000K Cool White	38	No	74	50	F
<b>FGU10DW/74MM</b>	7	230	GU10	20,000	600lm	600lm	6500K Daylight	38	No	74	50	F





## PAR Range

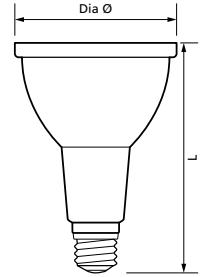


## PAR16 Range

## PAR16

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 40W halogen lamp
- Retro-fit size
- Ideal for accent, retail and display lighting



CRLED/PAR16SES

Energy Saving Values  
per lamp over 20,000 hours

**£238.00**

5W LED PAR16 = £34.00  
40W Halogen PAR16 = £272.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
CRLED/PAR16SES	5	230	E14	20,000	380lm	400lm	3000K Warm White	38	No	72	50	A+

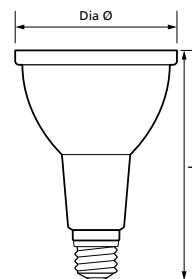




# PAR20

## Features and Benefits

- Up to 90% energy saving
- Suitable replacement for a 50W halogen lamp
- Retro fit size
- Ideal for accent, retail and display lighting



CRLED/PAR20

Energy Saving Values  
per lamp over 25,000 hours

**£374.00**

6W LED PAR20 = £51.00  
50W Halogen PAR20 = £425.00

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)		(mm)						
CRLED/PAR20	6	230	E27	25,000	420lm	480lm	3000K Warm White	24	No	91	63	G
CRLED/PAR20/DIM	6	230	E27	25,000	420lm	480lm	3000K Warm White	24	Yes	91	63	G

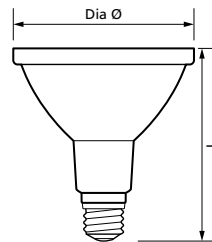


## PAR30 Range

## PAR30

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 75W halogen lamp
- Retro-fit size
- Ideal for accent, retail and display lighting



CRLED/PAR30

Energy Saving Values  
per lamp over 25,000 hours

**£552.50**

10W LED PAR30 = £85.00  
75W Halogen PAR30 = £637.50

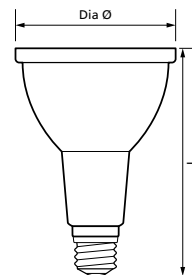
Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
CRLED/PAR30	10	230	E27	25,000	720lm	800lm	3000K Warm White	30	No	93	95	G
CRLED/PAR30/DIM	10	230	E27	25,000	720lm	800lm	3000K Warm White	30	Yes	93	95	G



# PAR38

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 80W to 120W incandescent lamp
- Retro-fit size
- Ideal for accent, retail and display lighting
- Suitable for outdoor use in a certified IP rated fitting



CRLED/PAR38

Energy Saving Values  
per lamp over 25,000 hours

**£892.50**

15W LED PAR38 = £127.50  
120W Halogen PAR38 = £1020.00

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
CRLED/PAR38	15	230	E27	25,000	1100lm	1200lm	3000K Warm White	30	No	135	121	F
CRLED/PAR38/DIM	15	230	E27	25,000	1100lm	1200lm	3000K Warm White	30	Yes	135	121	F
CRLED/PAR38 110V	15	230	E27	25,000	1100lm	1200lm	3000K Warm White	30	No	135	121	F





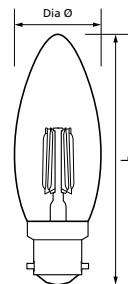
## Filament Range



# Filament Candle

## Features and Benefits

- Up to 95% energy savings
- Suitable replacement for a 40W incandescent lamp
- Clear and amber versions available
- Gives a sparkling effect, ideal for chandeliers



EDLED/FCAN4BC



EDLED/FCAN4SBC/A/DIM

Energy Saving Values  
per lamp over 15,000 hours

**£183.60**

4W LED Candle = £20.40  
40W Incandescent  
Candle = £204.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L (mm)	Ø (mm)	Energy Rating
EDLED/FCAN4BC	4	230	B22	15,000	470lm	470lm	2700K Warm White	300	No	100	35	E
EDLED/FCAN4ES	4	230	E27	15,000	470lm	470lm	2700K Warm White	300	No	100	35	E
EDLED/FCAN4SBC	4	230	B15	15,000	470lm	470lm	2700K Warm White	300	No	100	35	E
EDLED/FCAN4SES	4	230	E14	15,000	470lm	470lm	2700K Warm White	300	No	100	35	E
EDLED/FCAN4BC/DIM	4	230	B22	15,000	470lm	470lm	2700K Warm White	300	Yes	100	35	E
EDLED/FCAN4ES/DIM	4	230	E27	15,000	470lm	470lm	2700K Warm White	300	Yes	100	35	E
EDLED/FCAN4SBC/DIM	4	230	B15	15,000	470lm	470lm	2700K Warm White	300	Yes	100	35	E
EDLED/FCAN4SES/DIM	4	230	E14	15,000	470lm	470lm	2700K Warm White	300	Yes	100	35	E
EDLED/FCAN4BC/CW	4	230	B22	15,000	485lm	485lm	4000K Cool White	300	No	100	35	E
EDLED/FCAN4ES/CW	4	230	E27	15,000	485lm	485lm	4000K Cool White	300	No	100	35	E
EDLED/FCAN4SBC/CW	4	230	B15	15,000	485lm	485lm	4000K Cool White	300	No	100	35	E
EDLED/FCAN4SES/CW	4	230	E14	15,000	485lm	485lm	4000K Cool White	300	No	100	35	E
EDLED/FCAN4BC/A/DIM*	4	230	B22	15,000	320lm	320lm	2200K Deluxe Warm White	300	Yes	100	35	G
EDLED/FCAN4ES/A/DIM*	4	230	E27	15,000	320lm	320lm	2200K Deluxe Warm White	300	Yes	100	35	G
EDLED/FCAN4SBC/A/DIM*	4	230	B15	15,000	320lm	320lm	2200K Deluxe Warm White	300	Yes	100	35	G
EDLED/FCAN4SES/A/DIM*	4	230	E14	15,000	320lm	320lm	2200K Deluxe Warm White	300	Yes	100	35	G

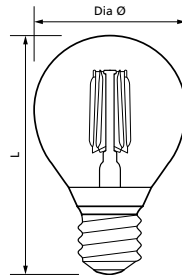
\*Amber version



# Filament Golf Ball

## Features and Benefits

- Up to 95% energy savings
- Suitable replacement for a 40W incandescent lamp
- Gives a sparkling effect



EDLED/FG45/4BC



EDLED/FG45/4ES

Energy Saving Values  
per lamp over 15,000 hours

**£183.60**

4W LED Golf Ball = £20.40  
40W Incandescent  
Golf Ball = £204.00

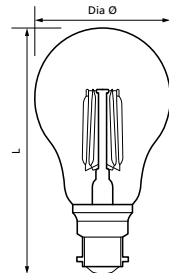
Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)								(mm)	(mm)	
EDLED/FG45/4BC	4	230	B22	15,000	470lm	470lm	2700K Warm White	300	No	78	45	E
EDLED/FG45/4ES	4	230	E27	15,000	470lm	470lm	2700K Warm White	300	No	78	45	E
EDLED/FG45/4SBC	4	230	B15	15,000	470lm	470lm	2700K Warm White	300	No	78	45	E
EDLED/FG45/4SES	4	230	E14	15,000	470lm	470lm	2700K Warm White	300	No	78	45	E
EDLED/FG45/4BC/DIM	4	230	B22	15,000	470lm	470lm	2700K Warm White	300	Yes	78	45	E
EDLED/FG45/4ES/DIM	4	230	E27	15,000	470lm	470lm	2700K Warm White	300	Yes	78	45	E
EDLED/FG45/4SBC/DIM	4	230	B15	15,000	470lm	470lm	2700K Warm White	300	Yes	78	45	E
EDLED/FG45/4SES/DIM	4	230	E14	15,000	470lm	470lm	2700K Warm White	300	Yes	78	45	E



# Filament GLS

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 40W, 60W & 75W incandescent lamp
- Gives a sparkling effect



EDLED/FGLS4BC



EDLED/FGLS4ES

Energy Saving Values  
per lamp over 15,000 hours

**£183.60**

4W LED GLS = £20.40  
40W Incandescent  
GLS = £204.00

Energy Saving Values  
per lamp over 15,000 hours

**£275.40**

6W LED GLS = £30.60  
60W Incandescent  
GLS = £306.00

Energy Saving Values  
per lamp over 15,000 hours

**£341.70**

8W LED GLS = £40.80  
75W Incandescent  
GLS = £382.50

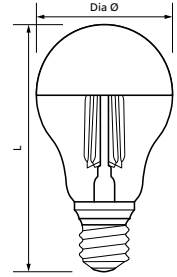
Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
EDLED/FGLS4BC	4	230	B22	15,000	470lm	470lm	2700K Warm White	300	No	108	60	E
EDLED/FGLS4ES	4	230	E27	15,000	470lm	470lm	2700K Warm White	300	No	108	60	E
EDLED/FGLS4BC/DIM	4	230	B22	15,000	470lm	470lm	2700K Warm White	300	Yes	108	60	E
EDLED/FGLS4ES/DIM	4	230	E27	15,000	470lm	470lm	2700K Warm White	300	Yes	108	60	E
EDLED/FGLS6BC	6	230	B22	15,000	810lm	810lm	2700K Warm White	300	No	108	60	D
EDLED/FGLS6ES	6	230	E27	15,000	810lm	810lm	2700K Warm White	300	No	108	60	D
EDLED/FGLS6BC/DIM	6	230	B22	15,000	810lm	810lm	2700K Warm White	300	Yes	108	60	D
EDLED/FGLS6ES/DIM	6	230	E27	15,000	810lm	810lm	2700K Warm White	300	Yes	108	60	D
EDLED/FGLS6BC/CW	6	230	B22	15,000	820lm	820lm	4000K Cool White	300	No	108	60	D
EDLED/FGLS6ES/CW	6	230	E27	15,000	820lm	820lm	4000K Cool White	300	No	108	60	D
EDLED/FGLS8BC	8	230	B22	15,000	1055lm	1055lm	2700K Warm White	300	No	108	60	E
EDLED/FGLS8ES	8	230	E27	15,000	1055lm	1055lm	2700K Warm White	300	No	108	60	E
EDLED/FGLS8BC/DIM	8	230	B22	15,000	1055lm	1055lm	2700K Warm White	300	Yes	108	60	E
EDLED/FGLS8ES/DIM	8	230	E27	15,000	1055lm	1055lm	2700K Warm White	300	Yes	108	60	E



# Filament GLS Crown Silver

## Features and Benefits

- Up to 85% energy savings
- Suitable replacement for a 40W incandescent crown silver lamp



EDLED/FGLS6ES/CS



EDLED/FGLS6BC/CS

Energy Saving Values  
per lamp over 15,000 hours

**£173.40**

6W LED GLS = £30.60  
40W Incandescent  
GLS = £204.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
EDLED/FGLS6BC/CS	6	230	B22	15,000	600lm	600lm	2700K Warm White	300	No	108	60	F
EDLED/FGLS6ES/CS	6	230	E27	15,000	600lm	600lm	2700K Warm White	300	No	108	60	F

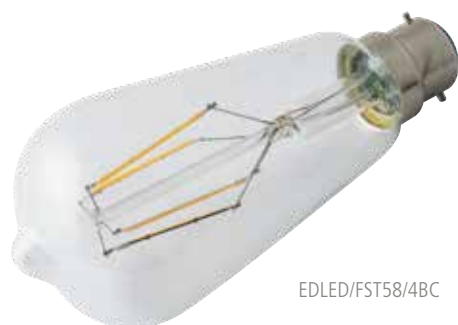
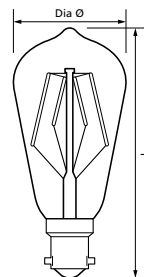




# Filament ST58 & ST64 Squirrel Cage

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 40W incandescent squirrel cage lamp
- Clear and Amber versions available



EDLED/FST58/4BC



EDLED/FST58A/4ES

Energy Saving Values  
per lamp over 15,000 hours

**£183.60**

4W LED ST58 = £20.40  
40W Incandescent  
Squirrel Cage = £204.00

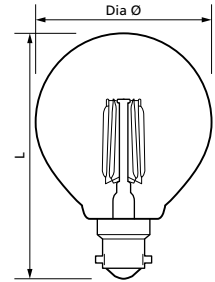
Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
EDLED/FST58/4BC	4	230	B22	15,000	400lm	400lm	2200K Warm White	300	No	132	58	F
EDLED/FST58/4ES	4	230	E27	15,000	400lm	400lm	2200K Warm White	300	No	132	58	F
EDLED/FST58/4BC/DIM	4	230	B22	15,000	400lm	400lm	2200K Warm White	300	Yes	132	58	F
EDLED/FST58/4ES/DIM	4	230	E27	15,000	400lm	400lm	2200K Warm White	300	Yes	132	58	F
EDLED/FST58A/4BC	4	230	B22	15,000	320lm	320lm	2200K Warm White	300	No	132	58	G
EDLED/FST58A/4ES	4	230	E27	15,000	320lm	320lm	2200K Warm White	300	No	132	58	G
EDLED/FST58A/4BC/DIM	4	230	B22	15,000	320lm	320lm	2200K Warm White	300	Yes	132	58	G
EDLED/FST58A/4ES/DIM	4	230	E27	15,000	320lm	320lm	2200K Warm White	300	Yes	132	58	G
EDLED/FST64/4BC	4	230	B22	15,000	400lm	400lm	2200K Warm White	300	No	143	64	F
EDLED/FST64/4ES	4	230	E27	15,000	400lm	400lm	2200K Warm White	300	No	143	64	F
EDLED/FST64/4BC/DIM	4	230	B22	15,000	400lm	400lm	2200K Warm White	300	Yes	143	64	F
EDLED/FST64/4ES/DIM	4	230	E27	15,000	400lm	400lm	2200K Warm White	300	Yes	143	64	F
EDLED/FST64A/4BC	4	230	B22	15,000	320lm	320lm	2200K Warm White	300	No	143	64	G
EDLED/FST64A/4ES	4	230	E27	15,000	320lm	320lm	2200K Warm White	300	No	143	64	G
EDLED/FST64A/4BC/DIM	4	230	B22	15,000	320lm	320lm	2200K Warm White	300	Yes	143	64	G
EDLED/FST64A/4ES/DIM	4	230	E27	15,000	320lm	320lm	2200K Warm White	300	Yes	143	64	G



# Filament Amber Globe 95mm & 125mm

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 40W incandescent globe



EDLED/FG125A/4BC/DIM



EDLED/FG95A/4ES/DIM

Energy Saving Values  
per lamp over 15,000 hours

**£183.60**

4W LED 95mm Globe = £20.40  
40W Incandescent 95mm  
Globe = £204.00

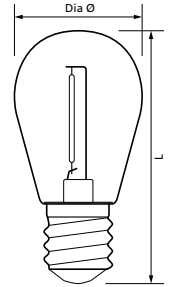
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>EDLED/FG95A/4BC/DIM</b>	4	230	B22	15,000	320lm	320lm	2200K Warm White	300	Yes	140	95	G
<b>EDLED/FG95A/4ES/DIM</b>	4	230	E27	15,000	320lm	320lm	2200K Warm White	300	Yes	140	95	G
<b>EDLED/FG125A/4BC/DIM</b>	4	230	B22	15,000	320lm	320lm	2200K Warm White	300	Yes	160	125	G
<b>EDLED/FG125A/4ES/DIM</b>	4	230	E27	15,000	320lm	320lm	2200K Warm White	300	Yes	160	125	G



# 1&2W LED Festoon Filament Lamp

## Features and Benefits

- Up to 95% energy savings
- Suitable replacement for festoon or string lighting systems



FFF1ES/5P



FFF2ES/5P

Energy Saving Values  
per lamp over 15,000 hours

**£71.40**

1W LED Filament = £5.10  
15W Incandescent  
Lamp = £76.50

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
FFF1ES/5P	1	230	ES	15,000	90lm	90lm	2700K Warm White	360	No	85	45	F
FFF2ES/5P	2	230	ES	15,000	180lm	180lm	2700K Warm White	360	No	85	45	F

Note: \* Related products from Luminaires

Product Ref	Description
FF5M1M*	5MTR 230V Festoon, 1MTR Spacing x 5 Drop Pendants
FF5M0.5M*	5MTR 230V Festoon 0.5MTR Spacing x 10 Pendants
FFPC*	3MTR 230V Festoon Power Cable
FFGWKIT*	20M Festoon Catenary Guide Wire Kit

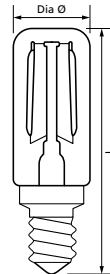
[fusion-luminaires.co.uk](http://fusion-luminaires.co.uk)



# Filament Cooker Hood

## Features and Benefits

- Up to 95% energy savings
- Suitable replacement for a 40W cooker hood lamp



EDLED/FHOODESES

Energy Saving Values  
per lamp over 15,000 hours

**£193.80**

2W LED Cooker Hood = £10.20  
40W Incandescent  
Lamp = £204.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
											(mm)	
EDLED/FHOODESES	2	230	E14	15,000	180lm	180lm	2700K Warm White	300	No	80	25	F





## MR11 & MR16 Range

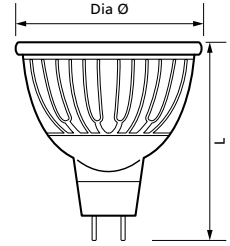


## MR11 Range

## 4W MR11

## Features and Benefits

- Can operate AC/DC 12V
- Up to 90% energy savings
- Suitable replacement for a 20W & 35W halogen lamp



CRLED/MR11WW

Energy Saving Values  
per lamp over 25,000 hours

**£263.50**

4W LED MR11 = £34.00  
35W Halogen MR11 = £297.50

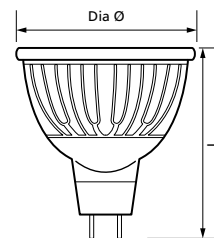
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
CRLED/MR11WW	4	12	GU4	25,000	225lm	275lm	3000K Warm White	38	No	42	34	G
CRLED/MR11CW	4	12	GU4	25,000	230lm	280lm	4000K Cool White	38	No	42	34	G
CRLED/MR11DW	4	12	GU4	25,000	235lm	285lm	6000K Daylight	38	No	42	34	G



## 4W MR16

### Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 35W halogen lamp
- Broadly compatible with existing electromagnetic & electronic halogen transformers



CRLED/MR16/4WW

Energy Saving Values  
per lamp over 25,000 hours

**£263.50**

4W LED MR16 = £34.00  
35W Halogen MR16 = £297.50

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
CRLED/MR16/4WW	4	12	GU5.3	25,000	245lm	315lm	3000K Warm White	38	No	48	50	G
CRLED/MR16/4CW	4	12	GU5.3	25,000	250lm	320lm	4000K Cool White	38	No	48	50	G
CRLED/MR16/4DW	4	12	GU5.3	25,000	255lm	325lm	6000K Daylight	38	No	48	50	G

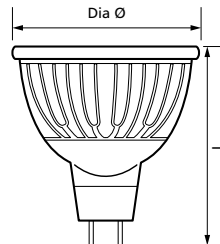


## MR16 Range

## 5W MR16

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 50W halogen lamp
- Broadly compatible with existing electromagnetic & electronic halogen transformers
- Ideal for accent and general lighting (eg; hotels, shops, offices)



CRLED/MR16/5WW

Energy Saving Values  
per lamp over 25,000 hours

**£382.50**

5W LED MR16 = £42.50  
50W Halogen MR16 = £425.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
CRLED/MR16/5WW	5	12	GU5.3	25,000	315lm	395lm	3000K Warm White	38	No	48	50	G
CRLED/MR16/5CW	5	12	GU5.3	25,000	320lm	400lm	4000K Cool White	38	No	48	50	G
CRLED/MR16/5DW	5	12	GU5.3	25,000	325lm	405lm	6000K Daylight	38	No	48	50	G

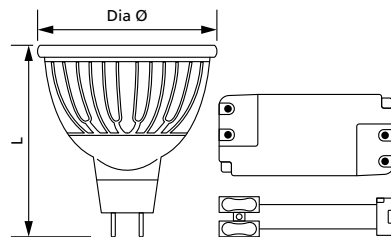




## 5W MR16 Dimmable Kit

### Features and Benefits

- Up to 85% energy savings
- No UV output
- Suitable replacement for a 50W halogen lamp
- Dimmable (when used in conjunction with included driver)
- Ideal for accent and general lighting (eg; hotels, shops, offices)



EDLEDKIT/DIM

Energy Saving Values  
per lamp over 25,000 hours

**£382.50**

5W LED MR16 = £42.50  
50W Halogen MR16 = £425.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
EDLEDKIT/DIM	5	230	GU5.3	25,000	320lm	400lm	4000K Cool White	38	Yes	48	50	G
EDLEDKIT/DIM/WW	5	230	GU5.3	25,000	315lm	395lm	3000K Warm White	38	Yes	48	50	G

Note: Image shown is for illustrative purpose only - product subject to slight change.

\*230V supply to driver, 24V supply to lamp from driver.

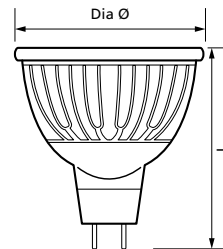


## MR16 Range

## 7W MR16

## Features and Benefits

- Up to 90% energy savings
- Equivalent replacement for a 50W halogen lamp
- Broadly compatible with existing electromagnetic & electronic halogen transformers



CRLED/MR16/7WW

Energy Saving Values  
per lamp over 25,000 hours

**£365.50**

7W LED MR16 = £59.50  
50W Halogen MR16 = £425.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
CRLED/MR16/7WW	7	12	GU5.3	25,000	470lm	555lm	3000K Warm White	38	No	48	50	G
CRLED/MR16/7CW	7	12	GU5.3	25,000	475lm	560lm	4000K Cool White	38	No	48	50	G
CRLED/MR16/7DW	7	12	GU5.3	25,000	480lm	565lm	6000K Daylight	38	No	48	50	G





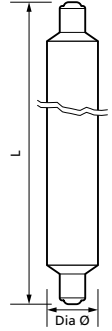
## Striplights & Architectural Range



## 221mm & 284mm Striplights

### Features and Benefits

- Up to 90% energy saving
- Suitable replacement for 30W or 60W incandescent striplights
- Ideal for retro fitting into picture lights, shaver lights and under cupboard lights



CRLED/221

Energy Saving Values  
per lamp over 20,000 hours

**£176.80**

4W LED Striplight = £27.20  
30W Incandescent  
Striplight = £204.00

Energy Saving Values  
per lamp over 20,000 hours

**£367.20**

6W LED Striplight = £40.80  
60W Incandescent  
Striplight = £408.00

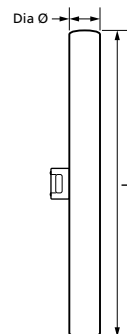
Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)								(mm)	(mm)	
CRLED/221	4	230	S15s	20,000	350lm	350lm	3000K Warm White	150	No	221	26	F
CRLED/284	6	230	S15s	20,000	550lm	550lm	3000K Warm White	150	No	284	26	F



## 300mm & 500mm Architectural

### Features and Benefits

- Up to 90% energy saving
- Suitable replacement for 35W & 60W incandescent architectural lamps



EDLED/S14S/300MM

EDLED/S14D/300MM

Energy Saving Values  
per lamp over 25,000 hours

**£255.00**

5W LED Architectural = £42.50  
35W Incandescent  
Striplight = £297.50

Energy Saving Values  
per lamp over 25,000 hours

**£442.00**

8W LED Architectural = £68.00  
60W Incandescent  
Striplight = £510.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
EDLED/S14D/300MM	5	230	S14d	25,000	440lm	440lm	3000K Warm White	120	No	300	30	F
EDLED/S14D/500MM	8	230	S14d	25,000	720lm	720lm	3000K Warm White	120	No	500	30	F
EDLED/S14S/300MM	5	230	S14s	25,000	440lm	440lm	3000K Warm White	120	No	300	30	F
EDLED/S14S/500MM	8	230	S14s	25,000	720lm	720lm	3000K Warm White	120	No	500	30	F





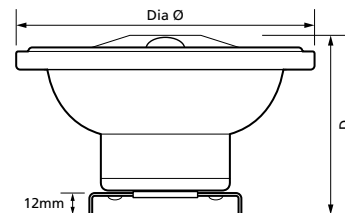
## AR111 Range



# 12W AR111

## Features and Benefits

- Up to 75% energy savings
- Suitable replacement for a 50W halogen lamp
- Ideal for retail and display lighting



EDLED/AR111/12

Energy Saving Values  
per lamp over 25,000 hours

**£323.00**

12W LED AR11 = £102.00  
50W Halogen AR11 = £425.00

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
<b>EDLED/AR111/12*</b>	12	12	G53	25,000	1000lm	1000lm	3000K Warm White	24	No	65	111	G
<b>EDLED/AR111/12/DIM**</b>	12	24	G53	25,000	1000lm	1000lm	3000K Warm White	24	Yes	65	111	G
<b>EDLED/AR111/12GU10</b>	12	230	GU10	25,000	1000lm	1000lm	3000K Warm White	24	No	73	111	G

**Note:** \*It is advised that an appropriate LED driver is used with this product.

Try our **LED DRIVER 18W** on page 102

\*\*Supplied complete with dimmable driver - Lamp and driver **MUST** be used together.





## Linear Range

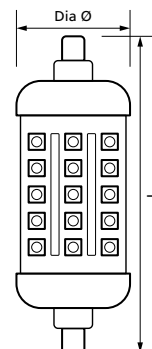




## 78mm & 118mm Linear

### Features and Benefits

- Up to 95% energy saving
- Suitable replacements for 120W and 400W halogen lamps
- Ideal for retro fitting into floodlights and uplighters



CRLED/78WW



CRLED/118WW

Energy Saving Values  
per lamp over 25,000 hours

**£977.50**

5W LED Linear = £42.50  
120W Liner Halogen = £1020.00

Energy Saving Values  
per lamp over 25,000 hours

**£3323.50**

9W LED Linear = £76.50  
400W Liner Halogen = £3400.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
<b>CRLED/78WW</b>	5	230	R7s	25,000	450lm	450lm	3000K Warm White	220	No	78	23.5	F
<b>CRLED/118WW</b>	9	230	R7s	25,000	1000lm	1000lm	3000K Warm White	220	No	118	23.5	E
<b>CRLED/78</b>	5	230	R7s	25,000	500lm	500lm	6000K Daylight	220	No	78	23.5	F
<b>CRLED/118</b>	9	230	R7s	25,000	1050lm	1050lm	6000K Daylight	220	No	118	23.5	E
<b>CRLED/118 110V</b>	9	110	R7s	25,000	1050lm	1050lm	6000K Daylight	220	No	118	23.5	F





## GX53, Capsules & Pygmy Range

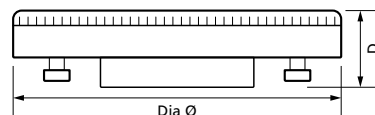


## GX53 Range

## GX53

## Features and Benefits

- Up to 55% energy saving
- Suitable replacement for a 9W compact fluorescent lamp



EDLED/GX53WW

Energy Saving Values  
per lamp over 25,000 hours

**£42.50**

4W LED GX53 = £34.00  
9W Compact Fluorescent  
GX53 = £76.50

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
EDLED/GX53WW	4	230	GX53	25,000	360lm	360lm	3000K Warm White	120	No	27	74	F
EDLED/GX53CW	4	230	GX53	25,000	363lm	363lm	4000K Cool White	120	No	27	74	F
EDLED/GX53DW	4	230	GX53	25,000	365lm	365lm	6000K Daylight	120	No	27	74	F

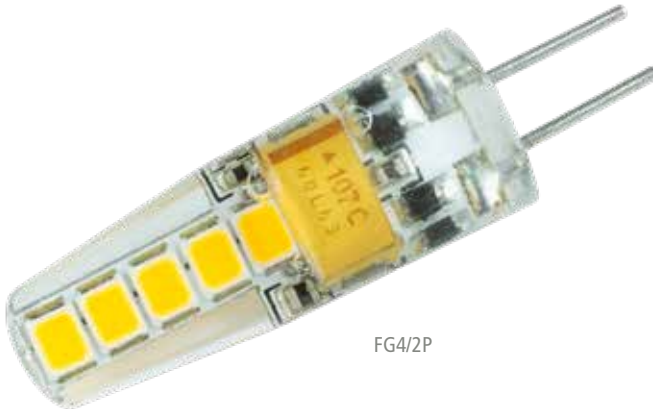
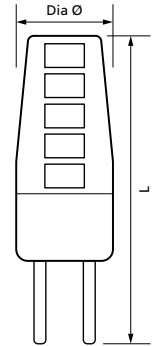


## G4 Range

Essential Range **G4** 2-Pack

## Features and Benefits

- 10 super bright SMDs
- Up to 90% energy saving
- Suitable replacement for a 10W or 20W halogen lamp
- Ideal for use in under cupboard lighting and bed-side table lamps



FG4/2P

Energy Saving Values  
per lamp over 15,000 hours

**£91.80**

2W LED G4 = £10.20  
20W Halogen G4 = £102.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>FG4/2P</b>	2	12	G4	15,000	200lm	200lm	3000K Warm White	330	No	36	10	F
<b>FG4CW/2P</b>	2	12	G4	15,000	210lm	210lm	4000K Cool White	330	No	36	10	F

**Note:** Suitable for use with most standard 12V transformers.

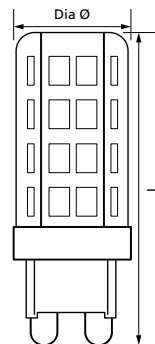
If not compatible, try our **LED DRIVER 18W** on page 102



# Essential Range **G9** 2-Pack

## Features and Benefits

- 51 super bright SMDs
- Up to 95% energy saving
- Suitable replacement for a 40W halogen lamp



FG9/2P

Energy Saving Values  
per lamp over 15,000 hours

**£187.17**

3.3W LED G9 = £16.83  
40W Halogen G9 = £204.00

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)								(mm)	(mm)	
<b>FG9/2P</b>	3.3	230	G9	15,000	350lm	350lm	3000K Warm White	330	No	49	17	E
<b>FG9CW/2P</b>	3.3	230	G9	15,000	350lm	350lm	4000K Cool White	330	No	49	17	E

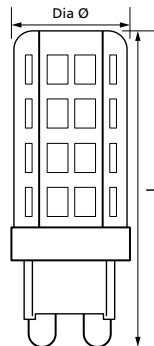


## G9 Range

Essential Range **G9** Dimmable

## Features and Benefits

- 32 super bright SMDs
- Up to 95% energy saving
- Suitable replacement for a 40W halogen lamp



FG9/D

Energy Saving Values  
per lamp over 15,000 hours

**£181.56**

4.4W LED G9 = £22.44  
40W Halogen G9 = £204.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
FG9/D	4.4	230	G9	15,000	470lm	470lm	3000K Warm White	320	Yes	59	18	F
FG9CW/D	4.4	230	G9	15,000	480lm	480lm	4000K Cool White	320	Yes	59	18	F



## GY6.35

### Features and Benefits

- 12 super bright SMDs (2.6W)
- 18 super bright SMDs (4.5W)
- Up to 95% savings
- Suitable replacement for 35W and 50W halogen lamps



FGY6.35/2.6CW

Energy Saving Values  
per lamp over 15,000 hours

**£165.24**

2.6W LED Capsule = £13.26  
35W Halogen Capsule = £178.50

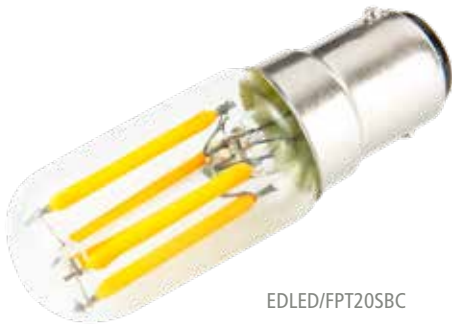
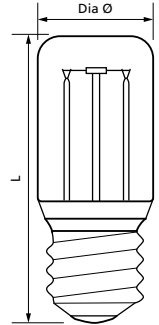
Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)									(mm)	
<b>FGY6.35/2.6CW</b>	2.6	12	GY6.35	15,000	300lm	300lm	4000K Cool White	320	No	40	15	F
<b>FGY6.35/2.6WW</b>	2.6	12	GY6.35	15,000	300lm	300lm	2700K Warm White	320	No	40	15	F
<b>FGY6.35/4.5CW</b>	4.5	12	GY6.35	15,000	470lm	470lm	4000K Cool White	320	No	50	18	F
<b>FGY6.35/4.5WW</b>	4.5	12	GY6.35	15,000	470lm	470lm	2700K Warm White	320	No	50	18	F

## PYGMY Range

## Pygmy

## Features and Benefits

- Up to 90% energy savingst
- Suitable replacement for a 15W incandescent pygmy lamp
- Ideal for appliances (i.e. cooker hoods and fridges)



EDLED/FPT20SBC



EDLED/FPT28ES

Energy Saving Values  
per lamp over 15,000 hours

**£68.85**

1.5W LED Pygmy = £7.65  
15W Incandescent Fridge  
Lamps = £76.50

Energy Saving Values  
per lamp over 15,000 hours

**£196.35**

1.5W LED Pygmy = £7.65  
40W Cookerhood  
Lamp = £204.00

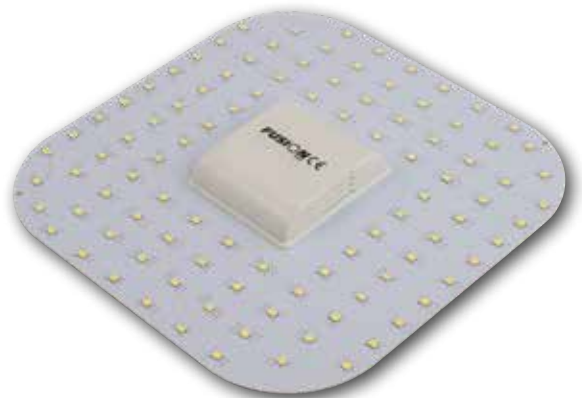
Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)		(mm)						
EDLED/FPT20SBC	1.5	230	B15	15,000	150lm	150lm	2700K Warm White	300	No	62	20	F
EDLED/FPT20SES	1.5	230	E14	15,000	150lm	150lm	2700K Warm White	300	No	62	20	F
EDLED/FPT28BC	1.8	230	B22	15,000	180lm	180lm	2700K Warm White	300	No	60	28	F
EDLED/FPT28ES	1.8	230	E27	15,000	180lm	180lm	2700K Warm White	300	No	60	28	F







## 2D Range

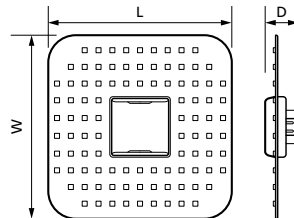


## 2D Range

## 2D

## Features and Benefits

- Up to 50% energy savings
- Suitable replacements for 16W, 28W & 38W 2D fluorescent lamps
- Can be used with PIRs and other presence or light level detectors (lamp life is not reduced when used with PIRs, unlike fluorescent counterparts)
- Ideal for general lighting (eg; hotels, care homes, offices)



CRLED/2D14/4P

Energy Saving Values  
per lamp over 30,000 hours

**£102.00**

8W LED 2D = £81.60  
16W 2D & Control Gear  
(2W) = £183.60

Energy Saving Values  
per lamp over 30,000 hours

**£173.40**

14W LED 2D = £142.80  
28W 2D & Control Gear  
(3W) = £316.20

Energy Saving Values  
per lamp over 30,000 hours

**£244.80**

18W LED 2D = £183.60  
38W 2D & Control Gear  
(4W) = £428.40

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)										
CRLED/2D8/2P	8	230	GR8	30,000	800lm	800lm	4000K Cool White	120	No	33	140	F
CRLED/2D8/4P	8	230	GR10q	30,000	800lm	800lm	4000K Cool White	120	No	33	140	F
CRLED/2D14/2P	14	230	GR8	30,000	1400lm	1400lm	4000K Cool White	120	No	32	190	F
CRLED/2D14/4P	14	230	GR10q	30,000	1400lm	1400lm	4000K Cool White	120	No	32	190	F
CRLED/2D18/4P	18	230	GR10q	30,000	2000lm	2000lm	4000K Cool White	120	No	32	190	E

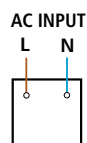


## 2D LED Installation Guide

### New Installation

- Connect live and neutral to the pins on opposite sides as shown in the diagram below.
- Install the LED 2D replacement into fixture.

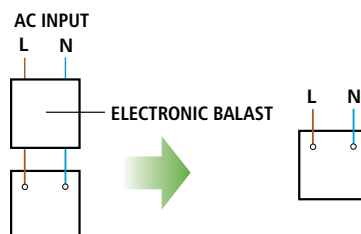
2 PIN



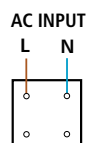
### Retrofit Installation: High Frequency

Remove electronic ballast and wire as shown in the diagram below:

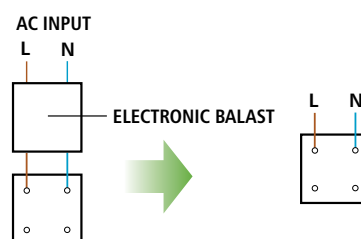
2 PIN



4 PIN



4 PIN



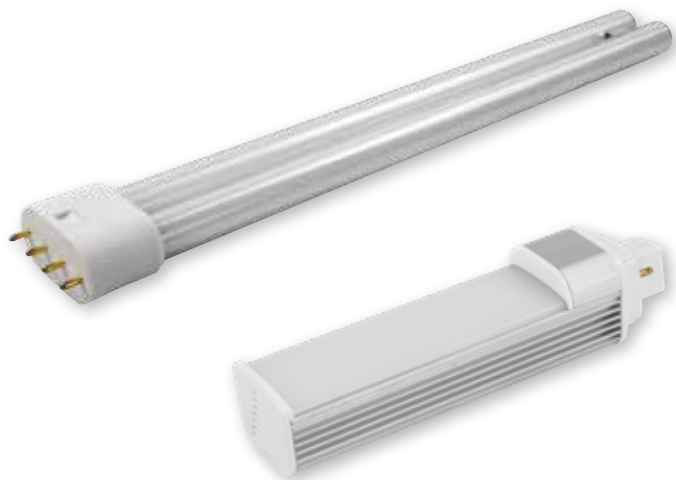
### Retrofit Installation: Switch Start

- Remove the fluorescent starter.
  - Install the LED 2D replacement into fixture.
- (For optimal energy savings, by passing the ballast is recommended - see New Installation)





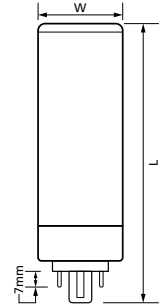
## Compact Range



# Double Compact

## Features and Benefits

- Up to 75% energy savings
- Rotating end cap
- Suitable replacement for 18W & 26W compact fluorescent lamp
- Ideal for use in downlights in commercial applications



CRLED/G24-2P

Energy Saving Values  
per lamp over 25,000 hours

**£170.00**

8W LED Double Compact  
Replacement = £68.00  
26W Double Compact  
& Control Gear (2W) = £238.00

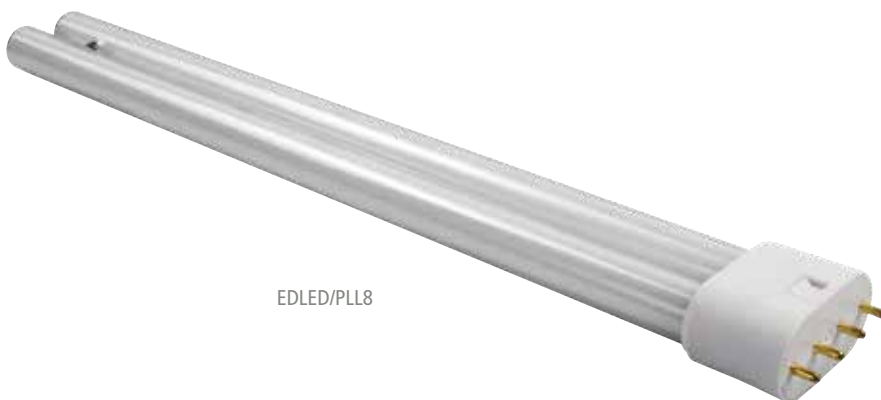
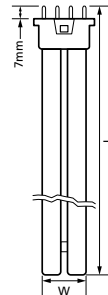
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
CRLED/G24-2P	8	230	G24 2-Pin	25,000	800lm	800lm	4000K Cool White	100	No	145	35	F
CRLED/G24-4P	8	230	G24 4-Pin	25,000	800lm	800lm	4000K Cool White	100	No	145	35	F



# Long Compact

## Features and Benefits

- Up to 70% energy savings
- Suitable replacement for 18W & 55W compact fluorescent lamps
- Ideal for use in commercial and retail applications



EDLED/PLL8

Energy Saving Values  
per lamp over 20,000 hours

**£272.00**

20W LED Long Compact  
Replacement = £136.00  
55W Long Compact  
& Control Gear (5W) = £408.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>EDLED/PLL8</b>	8	230	2G11	20,000	900lm	900lm	4000K Cool White	200	No	225	45	E
<b>EDLED/PLL12</b>	12	230	2G11	20,000	1350lm	1350lm	4000K Cool White	200	No	315	45	E
<b>EDLED/PLL16</b>	16	230	2G11	20,000	1800lm	1800lm	4000K Cool White	200	No	415	45	E
<b>EDLED/PLL20</b>	20	230	2G11	20,000	2350lm	2350lm	4000K Cool White	200	No	540	45	E

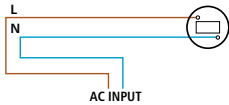


# Double Compact LED Installation Guide

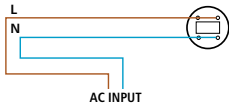
## Installation Guide

- Connect live and neutral to the pins on opposite sides as shown in the diagram below.
- Install the LED double compact replacement into fixture.

2 PIN



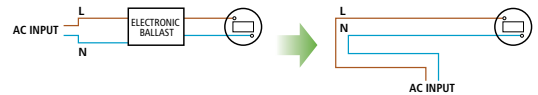
4 PIN



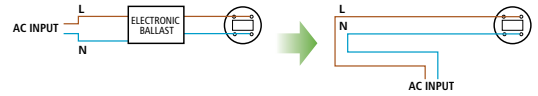
## Retrofit Installation: High Frequency

Remove electronic ballast and wire as shown in the diagram below:

2 PIN



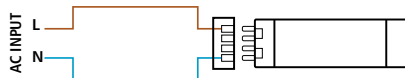
4 PIN



# Long Compact LED Installation Guide

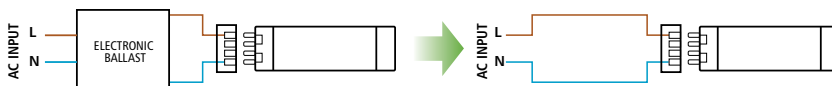
## New Installation

- Connect live and neutral to the end pins as shown in the diagram below.
- Install the LED PLL into fixture.



## Retrofit Installation: High Frequency

Remove electronic ballast and wire as shown in the diagram below:



NB: Switch start control gear must be bypassed - see New Installation.



## Tube Range

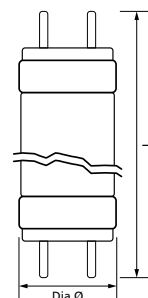




# T5 Glass Tubes

## Features and Benefits

- Up to 75% energy saving
- Built-in LED driver
- Light weight glass construction



EDLEDTUBET5/12CW

Energy Saving Values  
per lamp over 25,000 hours

**£578.00**

20W LED Tube = £170.00  
80W T5 & Control Gear  
(8W) = £748.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
EDLEDTUBET5/8CW	8	230	G5	25,000	880	880	4000K Cool White	200	No	562	17	E
EDLEDTUBET5/12CW	12	230	G5	25,000	1320	1320	4000K Cool White	200	No	862	17	E
EDLEDTUBET5/16CW	16	230	G5	25,000	1760	1760	4000K Cool White	200	No	1162	17	E
EDLEDTUBET5/20CW	20	230	G5	25,000	2200	2200	4000K Cool White	200	No	1462	17	E

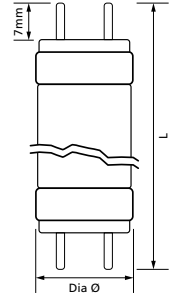


## T8 Glass Range

## T8 Glass Tubes

## Features and Benefits

- Up to 70% energy saving
- Built-in LED driver
- Light weight glass construction (2ft - 6ft) polycarbonate & aluminum (8ft)
- c/w LED starter for use in retro-fit installations



EDLEDTUBE/8FT/CW



EDLEDTUBE/G5FT

Energy Saving Values  
per lamp over 25,000 hours

**£408.00**

30W LED Tube = £255.00  
70W T8 & Control Gear  
(8W) = £663.00

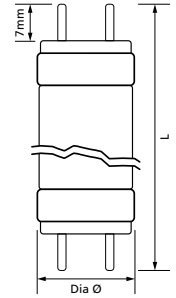
Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)		(hrs)								
EDLEDTUBE/G2FT	9	230	G13	25,000	900lm	900lm	4000K Cool White	300	No	604	28	F
EDLEDTUBE/G3FT	14	230	G13	25,000	1500lm	1500lm	4000K Cool White	300	No	909	28	F
EDLEDTUBE/G4FT	18	230	G13	25,000	1950lm	1950lm	4000K Cool White	300	No	1214	28	F
EDLEDTUBE/G5FT	24	230	G13	25,000	2600lm	2600lm	4000K Cool White	300	No	1514	28	F
EDLEDTUBE/G6FT	30	230	G13	25,000	3400lm	3400lm	4000K Cool White	300	No	1778	28	E
EDLEDTUBE/8FT/CW	36	230	G13	25,000	3900lm	3900lm	4000K Cool White	200	No	2400	28	F



# T8 Glass Tubes CCT Switchable

## Features and Benefits

- Up to 70% energy saving
- Built-in LED driver
- Light weight glass construction
- c/w LED starter for use in retro-fit installations



EDLEDTUBE/G2FT/CC

Energy Saving Values  
per lamp over 25,000 hours

**£357.00**

24W LED Tube = £204.00

58W T8 & Control Gear

(8W) = £561.00

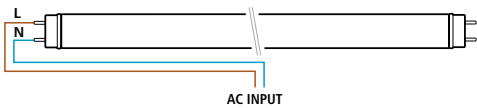
Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø		Energy Rating
	(W)	(V)									(mm)		
EDLEDTUBE/G2FT/CC	9	230	G13	25,000	945lm	945lm	3000K, 4000K, 6500K	300	No	602	28		F
EDLEDTUBE/G3FT/CC	14	230	G13	25,000	1540lm	1540lm	3000K, 4000K, 6500K	300	No	907	28		E
EDLEDTUBE/G4FT/CC	18	230	G13	25,000	1980lm	1980lm	3000K, 4000K, 6500K	300	No	1212	28		E
EDLEDTUBE/G5FT/CC	24	230	G13	25,000	2640lm	2640lm	3000K, 4000K, 6500K	300	No	1512	28		E
EDLEDTUBE/G6FT/CC	30	230	G13	25,000	3300lm	3300lm	3000K, 4000K, 6500K	300	No	1776	28		E



# LED Tube Installation Guide

## New Installation

- i. Connect live and neutral to one end of light fixture
- ii. Install the LED tube into fixture



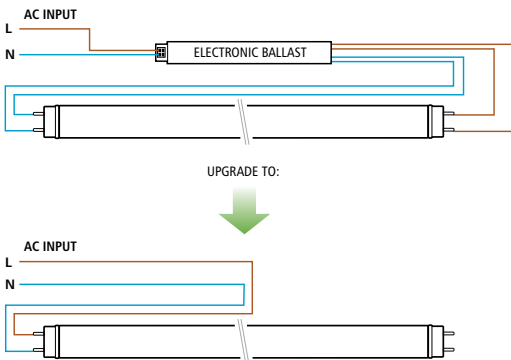
N.B: The power supply must go to the end of the tube marked 'AC Input'

## Retrofit Installation: Switch Start

- i. Remove the fluorescent starter as shown below and replace with the LED starter provided
- ii. Install the LED tube

## Retrofit Installation: High Frequency

Remove electronic ballast and re-wire as shown in the diagram below.



N.B: The power supply must go to the end of the tube marked 'AC Input'

## Retrofit Installation: Switch Start

- i. Remove the fluorescent starter as shown below and replace with the LED starter provided
- ii. Install the LED tube





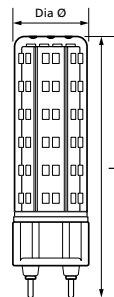
## HID Replacement Range



## 8W G12 HID Replacement

### Features and Benefits

- Up to 90% energy savings
- Suitable replacement for 35W-70W HID lamps
- Can be used in enclosed fittings
- Ideal for retro-fitting into track lighting and wall washing style fittings



FHIDG12

Energy Saving Values  
per lamp over 25,000 hours

**£663.00**

8W LED G12 = £68.00  
70W HID & Control Gear  
(16W) = £731.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
											(mm)	
FHIDG12	8	230	G12	25,000	1100lm	1100lm	4000K Cool White	270	No	95	30	D

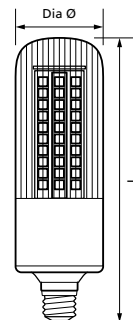
**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.



# 11W & 15W HID Replacement

## Features and Benefits

- 57 super bright SMDs
- Up to 90% energy savings
- Suitable replacement for a 70W HID lamp
- Can be used in enclosed fittings
- Ideal for retro-fitting into bollards, bulkheads etc



EDLED/HID11

Energy Saving Values  
per lamp over 25,000 hours

**£637.50**

11W LED HID = £93.50  
70W HID & Control Gear  
(16W) = £731.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>EDLED/HID11</b>	11	230	E27	25,000	1150lm	1150lm	6000K Daylight	300	No	165	65	F
<b>EDLED/HID15</b>	15	230	E27	25,000	1575lm	1575lm	6000K Daylight	300	No	165	65	F

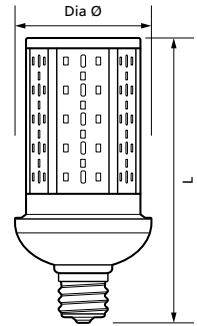
**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.



## 20W HID Replacement

### Features and Benefits

- 84 super bright SMDs
- Up to 80% energy saving
- Suitable replacement for 70W HID lamps
- Can be used in enclosed fittings
- Ideal for retro-fitting into miniature high bays, floodlights and lanterns



FHID20/E27

Energy Saving Values  
per lamp over 25,000 hours

**£561.00**

20W LED HID = £170.00  
70W HID & Control Gear  
(16W) = £731.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L (mm)	Ø (mm)	Energy Rating
FHID20/E27	20	230	E27	25,000	2600lm	2600lm	6000K Daylight	300	No	178	93	E

**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.

**Temperature Control System** The temperature of the lamp is precisely maintained due to its unique aluminium structure, coupled with an intelligent temperature control system built in to the LED Driver to maintain the optimum temperature. This enables it to be used in enclosed fittings.

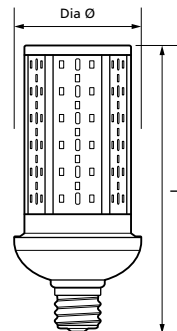




## 30W HID Replacement

### Features and Benefits

- 84 super bright SMDs
- Up to 85% energy saving
- Suitable replacement for 70W - 150W HID lamps
- Can be used in enclosed fittings
- Ideal for retro-fitting into low bays, high bays, floodlights and street lighting



FHD30/E27

Energy Saving Values  
per lamp over 25,000 hours

**£1232.50**

30W LED HID = £255.00  
150W HID & Control Gear  
(25W) = £1487.50

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
FHD30/E27	30	230	E27	25,000	3900lm	3900lm	6000K Daylight	300	No	188	93	E
FHD30	30	230	E40	25,000	3900lm	3900lm	6000K Daylight	300	No	208	93	E

**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.

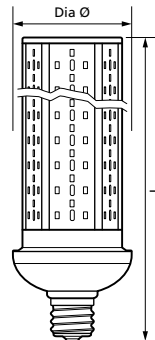
**Temperature Control System** The temperature of the lamp is precisely maintained due to its unique aluminium structure, coupled with an intelligent temperature control system built in to the LED Driver to maintain the optimum temperature. This enables it to be used in enclosed fittings.



## 60W HID Replacement

### Features and Benefits

- 156 super bright SMDs
- Up to 80% energy savings
- Suitable replacement for a 250W HID lamp
- Can be used in enclosed fittings
- Ideal for retro-fitting into lowbays, highbays, floodlights and streetlights



FHID60

Energy Saving Values  
per lamp over 25,000 hours

**£1827.50**

60W LED HID = £510.00  
250W HID & Control Gear  
(25W) = £2337.50

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>FHID60</b>	60	230	E40	25,000	8000lm	8000lm	6000K Daylight	300	No	280	93	E

**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.

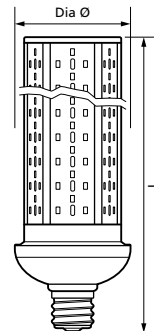
**Temperature Control System** The temperature of the lamp is precisely maintained due to its unique aluminium structure, coupled with an intelligent temperature control system built in to the LED Driver to maintain the optimum temperature. This enables it to be used in enclosed fittings.



## 85W HID Replacement

### Features and Benefits

- 182 super bright SMDs
- Up to 80% energy savings
- Suitable replacement for 250W - 400W HID lamps
- Can be used in enclosed fittings
- Ideal for retro-fitting into lowbays, highbays, floodlights and streetlights



FHID85

Energy Saving Values  
per lamp over 25,000 hours

**£2932.50**

85W LED HID = £722.50  
400W HID & Control Gear  
(30W) = £3655.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø (mm)	Energy Rating
FHID85	85	230	E40	25,000	11000lm	11000lm	6000K Daylight	300	No	285	106	E

**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.

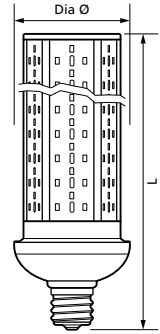
**Temperature Control System** The temperature of the lamp is precisely maintained due to its unique aluminium structure, coupled with an intelligent temperature control system built in to the LED Driver to maintain the optimum temperature. This enables it to be used in enclosed fittings.



# 100W HID Replacement

## Features and Benefits

- 210 super bright SMDs
- Up to 80% energy savings
- Suitable replacement for 250W - 400W HID lamps
- Can be used in enclosed fittings
- Ideal for retro-fitting into lowbays and highbays



FHD100

Energy Saving Values  
per lamp over 25,000 hours

**£2805.00**

100W LED HID = £850.00  
400W HID & Control Gear  
(30W) = £3655.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>FHD100</b>	100	230	E40	25,000	13000lm	13000lm	6000K Daylight	300	No	288	120	E

**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.

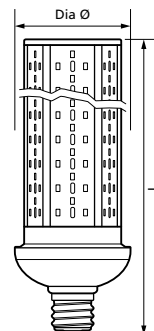
**Temperature Control System** The temperature of the lamp is precisely maintained due to its unique aluminium structure, coupled with an intelligent temperature control system built in to the LED Driver to maintain the optimum temperature. This enables it to be used in enclosed fittings.



# 120W HID Replacement

## Features and Benefits

- 210 super bright SMDs
- Up to 75% energy saving
- Suitable replacement for a 400W HID lamp
- Can be used in enclosed fittings
- Ideal for retro-fitting into lowbays and highbays



FHID120

Energy Saving Values  
per lamp over 25,000 hours

**£2635.00**

120W LED HID = £1020.00  
400W HID & Control Gear  
(30W) = £3655.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
										(mm)		
<b>FHID120</b>	120	230	E40	25,000	15000lm	15000lm	6000K Daylight	300	No	288	120	E

**Note:** Retro-fitting can be achieved by simply bypassing the HID control gear and wiring directly to the lamp holder.

**Temperature Control System** The temperature of the lamp is precisely maintained due to its unique aluminium structure, coupled with an intelligent temperature control system built in to the LED Driver to maintain the optimum temperature. This enables it to be used in enclosed fittings.





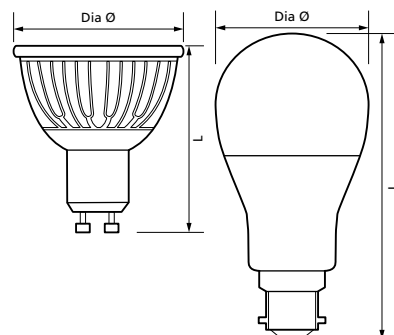
## Coloured Range



## Colour Changing GLS & GU10

### Features and Benefits

- Up to 95% energy savings
- Ideal for mood and general lighting (eg; restaurants, hotels and domestic applications)



FGU10/CC



FGLSBC/CC

Energy Saving Values  
per lamp over 25,000 hours

**£391.00**

4W LED GU10

Coloured = £34.00

50W Halogen GU10

Coloured = £425.00

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø	Energy Rating
	(W)	(V)										
FGLSBC/CC	9	230	B22	25,000	850lm	850lm	3000K & RGB	180	Yes	123	60	F
FGLSES/CC	9	230	E27	25,000	850lm	850lm	3000K & RGB	180	Yes	123	60	F
FGU10/CC	4	230	GU10	25,000	300lm	300lm	3000K & RGB	130	Yes	56	50	G

### Operation

- Various colour, dimming and effect operations available via the remote control provided.
- Up to a maximum of 20 products can be operated within the colour sequence.
- Remote range approximately 4 meters.



# GU10

## Features and Benefits

- Up to 90% energy savings
- Suitable replacement for a 50W halogen lamp
- Ideal for mood lighting (eg; restaurants, retail, etc)



FGU10/GR



FGU10/RE



FGU10/BL

Energy Saving Values  
per lamp over 20,000 hours

**£306.00**

5W LED GU10  
Coloured = £34.00  
50W Halogen GU10  
Coloured = £340.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø
										(mm)	
FGU10/BL	5	230	GU10	20,000	45lm	45lm	Blue	38	No	55	50
FGU10/GR	5	230	GU10	20,000	45lm	45lm	Green	38	No	55	50
FGU10/RE	5	230	GU10	20,000	45lm	45lm	Red	38	No	55	50

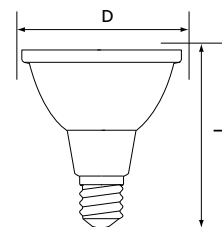




# PAR38

## Features and Benefits

- Suitable for outdoor use in a certified IP rated fitting
- Available in the following colours: Blue / Green / Red



CRLED/PAR38GR



CRLED/PAR38RE



CRLED/PAR38BL

Energy Saving Values  
per lamp over 30,000 hours

**£734.40**

8W LED PAR38

Coloured = £81.60

80W Incandescent PAR38

Coloured = £816.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø
										(mm)	
CRLED/PAR38BL	8	230	E27	30,000	58lm	60lm	Blue	30	No	135	122
CRLED/PAR38GR	8	230	E27	30,000	322lm	330lm	Green	30	No	135	122
CRLED/PAR38RE	8	230	E27	30,000	171lm	176lm	Red	30	No	135	122



## COLOURED Range

## 1W Golf Ball

## Features and Benefits

- Suitable for indoor or outdoor use in a certified IP Rated fitting
- Available in the following colours: Blue / Amber / Green / Magenta / Red / Warm White/ Yellow



FDRBC/AM



FDRES/GR



FDRBC/BL



FDRES/RE

Energy Saving Values  
per lamp over 25,000 hours

**£119.00**

1W LED Golf Balls  
Coloured = £8.50  
15W Incandescent Golf Ball  
Coloured = £127.50

Product Ref	Watts	Voltage	Cap	Lamp Life	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø
	(W)	(V)		(hrs)							
FDRBC/BL	1	230	B22	25,000	6lm	6lm	Blue	240	No	69	45
FDRBC/AM	1	230	B22	25,000	43lm	43lm	Amber	240	No	69	45
FDRBC/GR	1	230	B22	25,000	43lm	43lm	Green	240	No	69	45
FDRBC/MA	1	230	B22	25,000	22lm	22lm	Magenta	240	No	69	45
FDRBC/RE	1	230	B22	25,000	11lm	11lm	Red	240	No	69	45
FDRBC/WH	1	230	B22	25,000	85lm	85lm	White	240	No	69	45
FDRBC/YE	1	230	B22	25,000	105lm	105lm	Yellow	240	No	69	45
FDRES/BL	1	230	E27	25,000	6lm	6lm	Blue	240	No	69	45
FDRES/AM	1	230	E27	25,000	43lm	43lm	Amber	240	No	69	45
FDRES/GR	1	230	E27	25,000	43lm	43lm	Green	240	No	69	45
FDRES/MA	1	230	E27	25,000	22lm	22lm	Magenta	240	No	69	45
FDRES/RE	1	230	E27	25,000	11lm	11lm	Red	240	No	69	45
FDRES/WH	1	230	E27	25,000	85lm	85lm	White	240	No	69	45
FDRES/YE	1	230	E27	25,000	105lm	105lm	Yellow	240	No	69	45



## 8W GLS

### Features and Benefits

- Suitable for indoor or outdoor use in a certified IP Rated fitting
- Available in the following colours: Amber / Blue / Green / Magenta / Red / 3000K Warm White / Yellow



FGLSBC/WH



FGLSES/GR



FGLSBC/YE



FGLSES/MA

Energy Saving Values  
per lamp over 25,000 hours

**£272.00**

8W LED GLS  
Coloured = £68.00  
40W Incandescent GLS  
Coloured = £340.00

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L (mm)	Ø (mm)
FGLSBC/AM	8	230	B22	25,000	487lm	487lm	Amber	200	No	109	60
FGLSBC/BL	8	230	B22	25,000	51lm	51lm	Blue	200	No	109	60
FGLSBC/GR	8	230	B22	25,000	433lm	433lm	Green	200	No	109	60
FGLSBC/MA	8	230	B22	25,000	223lm	223lm	Magenta	200	No	109	60
FGLSBC/RE	8	230	B22	25,000	215lm	215lm	Red	200	No	109	60
FGLSBC/WH	8	230	B22	25,000	750lm	750lm	White	200	No	109	60
FGLSBC/YE	8	230	B22	25,000	691lm	691lm	Yellow	200	No	109	60
FGLSES/AM	8	230	E27	25,000	487lm	487lm	Amber	200	No	109	60
FGLSES/BL	8	230	E27	25,000	51lm	51lm	Blue	200	No	109	60
FGLSES/GR	8	230	E27	25,000	433lm	433lm	Green	200	No	109	60
FGLSES/MA	8	230	E27	25,000	223lm	223lm	Magenta	200	No	109	60
FGLSES/RE	8	230	E27	25,000	215lm	215lm	Red	200	No	109	60
FGLSES/WH	8	230	E27	25,000	750lm	750lm	White	200	No	109	60
FGLSES/YE	8	230	E27	25,000	691lm	691lm	Yellow	200	No	109	60





## Accessories & Specialist Range



# Flicker Flame

## Features and Benefits

- The flicker flame LED lamps produce an extremely realistic flame effect which would create a fantastic atmosphere to many outdoor spaces
- Built-in gravity sensor to allow use in both upward and downward facing fixtures
- Ideal for lantern fittings (e.g. pubs, hotels and residential areas)



FFLED/ES



FFLED-ES-MINI



Scan the QR code to watch a demonstration video.



Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	Dimmable	L	Ø
										(mm)	
FFLED/ES	4-10	230	E27	25,000	465lm	465lm	1838K Ultra Warm White	300	No	130	52
FFLED/ES/MINI	3-8	230	E27	25,000	300lm	300lm	1800K Ultra Warm White	300	No	115	36



## Accessories

A range of Fusion Lamps accessories to complement the LED range. A specific driver for efficient safe operation, along with adaptors for cap conversions and retro-fitting, saving the cost of changing the whole luminaire, turning a standard fitting into an energy saving and cost effective solution.



LED DRIVER 18W



E14 / E27



E40 / E27



GU10 / E27

Product Ref	Description
<b>LED DRIVER 18W</b>	12V LED Driver 18W Max Constant Voltage
<b>B15/E27</b>	Adaptor: B15 (SBC) to E27 (ES)
<b>B22/E27</b>	Adaptor: B22 (BC) to E27 (ES)
<b>E14/E27</b>	Adaptor: E14 (SES) to E27 (ES)
<b>E40/E27</b>	Adaptor: E40 (GES) to E27 (ES)
<b>G9/E27</b>	Adaptor: G9 to E27 (ES)
<b>GU10/B22</b>	Adaptor: GU10 to B22 (BC)
<b>GU10/E27</b>	Adaptor: GU10 to E27 (ES)
<b>E27/E40</b>	Adaptor: E27 (ES) to E40 (GES)
<b>E27/G24-q</b>	Adaptor: E27 (ES) to G24-q (4-pin)
<b>E27/B22</b>	Adaptor: E27 (ES) to B22 (BC)
<b>E14/B22</b>	Adaptor: E14 (SES) to B22 (BC)

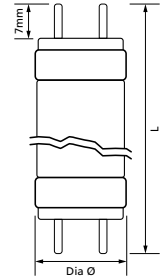




## Fluorescent Range



# Triphosphor T8



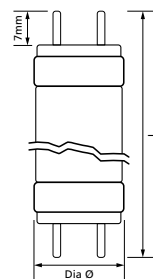
EDF15/835

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	L	Ø (mm)	Energy Rating
EDF15/835	15	230	G13	20,000	960lm	960lm	3500K White	360	450	26	G
EDF15/840	15	230	G13	20,000	960lm	960lm	4000K Cool White	360	450	26	G
EDF18/830	18	230	G13	20,000	1350lm	1350lm	3000K Warm White	360	604	26	G
EDF18/835	18	230	G13	20,000	1350lm	1350lm	3500K White	360	604	26	G
EDF18/840	18	230	G13	20,000	1350lm	1350lm	4000K Cool White	360	604	26	G
EDF18/865	18	230	G13	20,000	1250lm	1250lm	6500K Daylight	360	604	26	G
EDF30/830	30	230	G13	20,000	2450lm	2450lm	3000K Warm White	360	909	26	G
EDF30/835	30	230	G13	20,000	2450lm	2450lm	3500K White	360	909	26	G
EDF30/840	30	230	G13	20,000	2450lm	2450lm	4000K Cool White	360	909	26	G
EDF30/865	30	230	G13	20,000	2300lm	2300lm	6500K Daylight	360	909	26	G
EDF36/830	36	230	G13	20,000	3350lm	3350lm	3000K Warm White	360	1214	26	G
EDF36/835	36	230	G13	20,000	3350lm	3350lm	3500K White	360	1214	26	G
EDF36/840	36	230	G13	20,000	3350lm	3350lm	4000K Cool White	360	1214	26	G
EDF36/865	36	230	G13	20,000	3050lm	3050lm	6500K Daylight	360	1214	26	G
EDF58/830	58	230	G13	20,000	5250lm	5250lm	3000K Warm White	360	1514	26	G
EDF58/835	58	230	G13	20,000	5250lm	5250lm	3500K White	360	1514	26	G
EDF58/840	58	230	G13	20,000	5250lm	5250lm	4000K Cool White	360	1514	26	G
EDF58/865	58	230	G13	20,000	5000lm	5000lm	6500K Daylight	360	1514	26	G
EDF70/835	70	230	G13	20,000	6200lm	6200lm	3500K White	360	1778	26	G
EDF70/840	70	230	G13	20,000	6200lm	6200lm	4000K Cool White	360	1778	26	G
EDF70/865	70	230	G13	20,000	5800lm	5800lm	6500K Daylight	360	1778	26	G





# Miniature T5

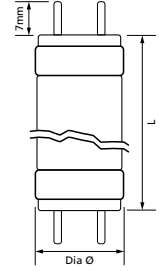


EDF4/835

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	L	Ø	Energy Rating
	(W)	(V)									
<b>EDF4/835</b>	4	230	G5	5,000	160lm	160lm	3500K White	360	150	16	G
<b>EDF6/35</b>	6	230	G5	5,000	260lm	260lm	3500K White	360	225	16	G
<b>EDF8/35</b>	8	230	G5	5,000	380lm	380lm	3500K White	360	300	16	G
<b>EDF13/35</b>	13	230	G5	5,000	800lm	800lm	3500K White	360	525	16	G



# Triphosphor T5

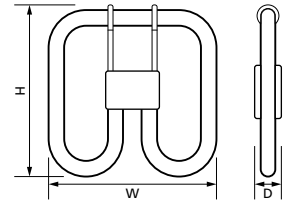


EDF14/830

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Useful Lumens	Total Lumens	CCT	Beam Angle °	L	Ø	Energy Rating
									(mm)		
EDF14/830	14	230	G5	24,000	1250lm	1250lm	3000K Warm White	360	549	16	G
EDF14/835	14	230	G5	24,000	1250lm	1250lm	3500K White	360	549	16	G
EDF14/840	14	230	G5	24,000	1250lm	1250lm	4000K Cool White	360	549	16	G
EDF14/865	14	230	G5	24,000	1140lm	1140lm	6500K Daylight	360	549	16	G
EDF21/830	21	230	G5	24,000	1900lm	1900lm	3000K Warm White	360	849	16	G
EDF21/840	21	230	G5	24,000	1900lm	1900lm	4000K Cool White	360	849	16	G
EDF24/840	24	230	G5	24,000	1800lm	1800lm	4000K Cool White	360	549	16	G
EDF28/830	28	230	G5	24,000	2620lm	2620lm	3000K Warm White	360	1149	16	G
EDF28/840	28	230	G5	24,000	2620lm	2620lm	4000K Cool White	360	549	16	G
EDF35/830	35	230	G5	24,000	3300lm	3300lm	3000K Warm White	360	1449	16	G
EDF35/835	35	230	G5	24,000	3300lm	3300lm	3500K White	360	1449	16	G
EDF35/840	35	230	G5	24,000	3300lm	3300lm	4000K Cool White	360	1449	16	G
EDF39/840	39	230	G5	24,000	3005lm	3005lm	4000K Cool White	360	849	16	G
EDF49/835	49	230	G5	24,000	4312lm	4312lm	3500K White	360	1449	16	G
EDF49/840	49	230	G5	24,000	4312lm	4312lm	4000K Cool White	360	1449	16	G
EDF54/840	54	230	G5	24,000	4412lm	4412lm	4000K Cool White	360	1149	16	G
EDF80/840	80	230	G5	24,000	6200lm	6200lm	4000K Cool White	360	1449	16	G



# Fluorescent 2D



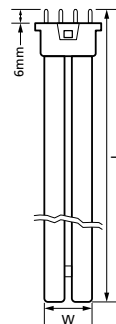
B16/835/2P



Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)		(hrs)					
<b>B16/835/2P</b>	16	230	GR8	10,000	1060lm	3500K White	141	138	G
<b>B16/835/4P</b>	16	230	GR10q	10,000	1060lm	3500K White	141	138	G
<b>B28/835/2P</b>	28	230	GR8	10,000	2000lm	3500K White	207	205	G
<b>B28/835/4P</b>	28	230	GR10q	10,000	2000lm	3500K White	207	205	G
<b>B38/835/4P</b>	38	230	GR10q	10,000	2550lm	3500K White	207	205	G



# 4 Pin Long Compact



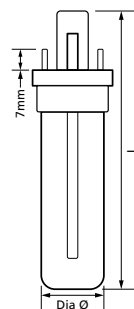
EDL18/83



Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
EDL18/83	18	230	2G11	10,000	1206lm	3000K Warm White	225	40	G
EDL18/835	18	230	2G11	10,000	1206lm	3500K White	225	40	G
EDL18/84	18	230	2G11	10,000	1206lm	4000K Cool White	225	40	G
EDL18/865	18	230	2G11	10,000	1098lm	6500K Daylight	225	40	G
EDL24/83	24	230	2G11	10,000	1800lm	3000K Warm White	320	40	G
EDL24/835	24	230	2G11	10,000	1800lm	3500K White	320	40	G
EDL24/84	24	230	2G11	10,000	1800lm	4000K Cool White	320	40	G
EDL36/83	36	230	2G11	10,000	2916lm	3000K Warm White	415	40	G
EDL36/835	36	230	2G11	10,000	2916lm	3500K White	415	40	G
EDL36/84	36	230	2G11	10,000	2916lm	4000K Cool White	415	40	G
EDL36/865	36	230	2G11	10,000	2628lm	6500K Daylight	415	40	G
EDL40/83	40	230	2G11	10,000	3320lm	3000K Warm White	535	40	G
EDL40/835	40	230	2G11	10,000	3320lm	3500K White	535	40	G
EDL40/84	40	230	2G11	10,000	3320lm	4000K Cool White	535	40	G
EDL55/83	55	230	2G11	10,000	4510lm	3000K Warm White	535	40	G
EDL55/835	55	230	2G11	10,000	4510lm	3500K White	535	40	G
EDL55/84	55	230	2G11	10,000	4510lm	4000K Cool White	535	40	G
EDL55/865	55	230	2G11	10,000	4070lm	6500K Daylight	535	40	G



## 2 Pin Single Compact



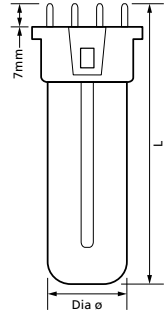
ED5PL82



Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
ED5PL82	5	230	G23	10,000	260lm	2700K Warm White	105	28	G
ED5PL84	5	230	G23	10,000	260lm	4000K Cool White	105	28	G
ED7PL82	7	230	G23	10,000	405lm	2700K Warm White	135	28	G
ED7PL84	7	230	G23	10,000	405lm	4000K Cool White	135	28	G
ED9PL82	9	230	G23	10,000	583lm	2700K Warm White	164	28	G
ED9PL84	9	230	G23	10,000	583lm	4000K Cool White	164	28	G
ED11PL82	11	230	G23	10,000	897lm	2700K Warm White	233	28	G
ED11PL84	11	230	G23	10,000	897lm	4000K Cool White	233	28	G



# 4 Pin Single Compact



ED5PL4P82



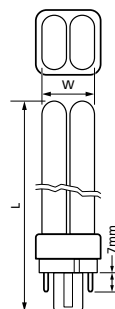
Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
ED5PL4P82	5	230	2G7	10,000	260lm	2700K Warm White	88	28	G
ED5PL4P84	5	230	2G7	10,000	260lm	4000K Cool White	88	28	G
ED7PL4P82	7	230	2G7	10,000	405lm	2700K Warm White	120	28	G
ED7PL4P84	7	230	2G7	10,000	405lm	4000K Cool White	120	28	G
ED9PL4P82	9	230	2G7	10,000	583lm	2700K Warm White	149	28	G
ED9PL4P84	9	230	2G7	10,000	583lm	4000K Cool White	149	28	G
ED11PL4P82	11	230	2G7	10,000	897lm	2700K Warm White	218	28	G
ED11PL4P84	11	230	2G7	10,000	897lm	4000K Cool White	218	28	G



## 2 Pin Double Compact



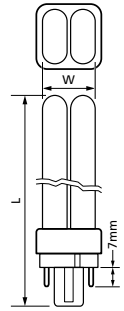
EDD10/82



Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
EDD10/82	10	230	G24d-1	10,000	600lm	2700K Warm White	116	28	G
EDD10/835	10	230	G24d-1	10,000	600lm	3500K White	116	28	G
EDD10/84	10	230	G24d-1	10,000	600lm	4000K Cool White	116	28	G
EDD13/82	13	230	G24d-1	10,000	897lm	2700K Warm White	137	28	G
EDD13/835	13	230	G24d-1	10,000	897lm	3500K White	137	28	G
EDD13/84	13	230	G24d-1	10,000	897lm	4000K Cool White	137	28	G
EDD18/82	18	230	G24d-2	10,000	1206lm	2700K Warm White	153	28	G
EDD18/835	18	230	G24d-2	10,000	1206lm	3500K White	153	28	G
EDD18/84	18	230	G24d-2	10,000	1206lm	4000K Cool White	153	28	G
EDD18/865	18	230	G24d-2	10,000	1098lm	6500K Daylight	153	28	G
EDD26/82	26	230	G24d-3	10,000	1716lm	2700K Warm White	173	28	G
EDD26/835	26	230	G24d-3	10,000	1716lm	3500K White	173	28	G
EDD26/84	26	230	G24d-3	10,000	1716lm	4000K Cool White	173	28	G
EDD26/865	26	230	G24d-3	10,000	1560lm	6500K Daylight	173	28	G



# 4 Pin Double Compact



EDDE18/84

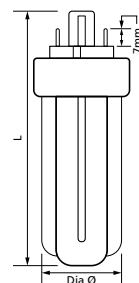


Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
EDDE10/82	10	230	G24d-1	10,000	600lm	2700K Warm White	116	28	G
EDDE10/835	10	230	G24d-1	10,000	600lm	3500K White	116	28	G
EDDE10/84	10	230	G24d-1	10,000	600lm	4000K Cool White	116	28	G
EDDE13/82	13	230	G24d-1	10,000	897lm	2700K Warm White	137	28	G
EDDE13/835	13	230	G24d-1	10,000	897lm	3500K White	137	28	G
EDDE13/84	13	230	G24d-1	10,000	897lm	4000K Cool White	137	28	G
EDDE18/82	18	230	G24d-2	10,000	1206lm	2700K Warm White	153	28	G
EDDE18/835	18	230	G24d-2	10,000	1206lm	3500K White	153	28	G
EDDE18/84	18	230	G24d-2	10,000	1206lm	4000K Cool White	153	28	G
EDDE18/865	18	230	G24d-2	10,000	1098lm	6500K Daylight	153	28	G
EDDE26/82	26	230	G24d-3	10,000	1716lm	2700K Warm White	173	28	G
EDDE26/835	26	230	G24d-3	10,000	1716lm	3500K White	173	28	G
EDDE26/84	26	230	G24d-3	10,000	1716lm	4000K Cool White	173	28	G
EDDE26/865	26	230	G24d-3	10,000	1560lm	6500K Daylight	173	28	G





## 2 Pin Triple Compact



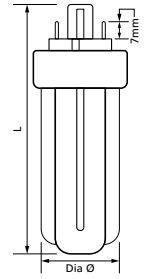
EDT13/84



Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
<b>EDT13/84</b>	13	230	GX24d-1	10,000	806lm	4000K Cool White	110	45	G
<b>EDT18/82</b>	18	230	GX24d-2	10,000	1206lm	2700K Warm White	125	45	G
<b>EDT18/84</b>	18	230	GX24d-2	10,000	1206lm	4000K Cool White	125	45	G
<b>EDT26/82</b>	26	230	GX24d-3	10,000	1749lm	2700K Warm White	145	45	G
<b>EDT26/84</b>	26	230	GX24d-3	10,000	1749lm	4000K Cool White	145	45	G



# 4 Pin Triple Compact



EDTE13/82



Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Total Lumens	CCT	L	Ø	Energy Rating
							(mm)		
EDTE13/82	13	230	GX24q-1	10,000	806lm	2700K Warm White	103	45	G
EDTE13/84	13	230	GX24q-1	10,000	806lm	4000K Cool White	103	45	G
EDTE18/82	18	230	GX24q-2	10,000	1206lm	2700K Warm White	118	45	G
EDTE18/84	18	230	GX24q-2	10,000	1206lm	4000K Cool White	118	45	G
EDTE26/82	26	230	GX24q-3	10,000	1749lm	2700K Warm White	138	45	G
EDTE26/84	26	230	GX24q-3	10,000	1749lm	4000K Cool White	138	45	G
EDTE32/82	32	230	GX24q-3	10,000	2112lm	2700K Warm Whit	139	49	G
EDTE32/84	32	230	GX24q-3	10,000	2112lm	4000K Cool White	139	49	G
EDTE42/82	42	230	GX24q-4	10,000	2814lm	2700K Warm White	165	49	G
EDTE42/84	42	230	GX24q-4	10,000	2814lm	4000K Cool White	165	49	G





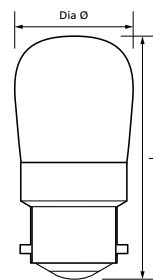
## Incandescent Pygmy



# Clear Pygmy



EDP15BC/CL



EDP15SES/CL



EDP15SBC/CL

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Total Lumens	CCT	L (mm)	Ø (mm)
EDP15BC/CL	15	230	B22	1,000	80lm	2700K Warm White	60	28
EDP15SBC/CL	15	230	B15	1,000	80lm	2700K Warm White	53	26
EDP15SES/CL	15	230	E14	1,000	80lm	2700K Warm White	60	22

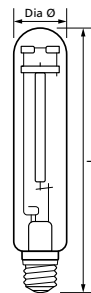




## HID Range



## SON Tubular



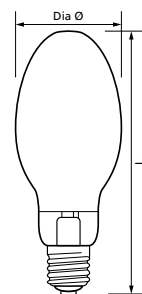
ED400SONT/HO

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Total Lumens	CCT	L Ø		Energy Rating
							(mm)		
ED50SONT/HO	50	230	E27	28,000	3800lm	2000K Warm White	156	39	G
ED70SONT/HO	70	230	E27	32,000	6600lm	2000K Warm White	156	39	F
ED70SONT/HO/I*	70	230	E27	28,000	6600lm	2000K Warm White	156	39	F
ED100SONT/HO	100	230	E40	32,000	10000lm	2000K Warm White	211	47	F
ED150SONT/HO	150	230	E40	32,000	16500lm	2000K Warm White	211	47	F
ED250SONT/HO	250	230	E40	32,000	32500lm	2000K Warm White	257	47	E
ED400SONT/HO	400	230	E40	32,000	56500lm	2000K Warm White	292	47	E

Note: \* With internal igniter



# SON Elliptical



ED250SONE/HO

Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
ED50SONE/HO	50	230	E27	28,000	3700lm	2000K Warm White	156	71	G
ED70SONE/HO	70	230	E27	28,000	600lm	2000K Warm White	156	71	G
ED70SONE/HO/I*	70	230	E27	32,000	5600lm	2000K Warm White	156	71	G
ED100SONE/HO	100	230	E40	28,000	9500lm	2000K Warm White	196	76	F
ED150SONE/HO	150	230	E40	28,000	16000lm	2000K Warm White	227	91	F
ED250SONE/HO	250	230	E40	28,000	29500lm	2000K Warm White	227	91	F
ED400SONE/HO	400	230	E40	28,000	51775lm	2000K Warm White	292	121	E

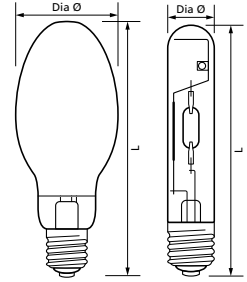
**Note:** \* With internal igniter



# Dual Plus

## Features and Benefits

- Suitable for use on most mercury and sodium ballasts in conjunction with the appropriate ignitor



EDHPIE250P



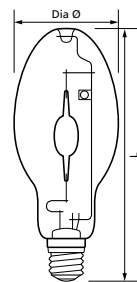
EDHPIT400P

Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
EDHPIE250P	250	230	E40	15,000	19000lm	4500K Neutral White	227	91	G
EDHPIE400P	400	230	E40	15,000	32000lm	4500K Neutral White	284	121	G
EDHPIT250P	250	230	E40	15,000	18000lm	4500K Neutral White	257	47	G
EDHPIT400P	400	230	E40	15,000	32000lm	4500K Neutral White	285	47	G





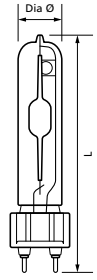
# Ceramic Elliptical



EDCMHE70NW

Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
<b>EDCMHE70NW</b>	70	230	E27	20,000	6000lm	4200K Neutral White	141	55	G
<b>EDCMHE150NW</b>	150	230	E27	20,000	14000lm	4200K Neutral White	141	55	F

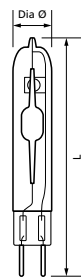


Ceramic **G12**

EDCMHT150NW

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)					(mm)	(mm)	
<b>EDCMHT35NW</b>	35	230	G12	12,000	3400lm	4200K Neutral White	99	19	F
<b>EDCMHT35WW</b>	35	230	G12	12,000	3400lm	3000K Warm White	99	19	F
<b>EDCMHT70NW</b>	70	230	G12	12,000	6500lm	4200K Neutral White	99	19	F
<b>EDCMHT70WW</b>	70	230	G12	12,000	7000lm	3000K Warm White	99	19	F
<b>EDCMHT150NW</b>	150	230	G12	12,000	13500lm	4200K Neutral White	100	23	G
<b>EDCMHT150WW</b>	150	230	G12	12,000	14000lm	3000K Warm White	100	23	F



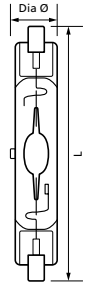
Ceramic **G8.5**

EDCMHTC35WW

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)					(mm)	(mm)	
<b>EDCMHTC35NW</b>	35	230	G8.5	12,000	3100lm	4200K Neutral White	85	14	G
<b>EDCMHTC35WW</b>	35	230	G8.5	12,000	3400lm	3000K Warm White	85	14	F
<b>EDCMHTC70NW</b>	70	230	G8.5	12,000	6500lm	4200K Neutral White	85	14	F
<b>EDCMHTC70WW</b>	70	230	G8.5	12,000	7000lm	3000K Warm White	85	14	F



# Ceramic Double Ended

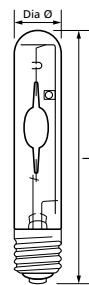


EDCMHTD150NW

Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
<b>EDCMHTD150NW</b>	150	230	RX7s	12,000	13000lm	4200K Neutral White	136	23	G
<b>EDCMHTD150WW</b>	150	230	RX7s	12,000	13500lm	3000K Warm White	136	23	G
<b>EDCMHTD70NW</b>	70	230	RX7s	12,000	6000lm	4200K Neutral White	117	20	G
<b>EDCMHTD70WW</b>	70	230	RX7s	12,000	6500lm	3000K Warm White	117	20	F



# Ceramic Tubular

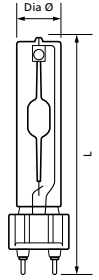


EDCMHTT150NW

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Total Lumens	CCT	L	Ø (mm)	Energy Rating
<b>EDCMHTT150NW</b>	150	230	E40	20,000	14000lm	4200K Neutral White	211	47	F



# Quartz G12

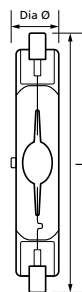


ED150G12NW

Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)							
<b>ED150G12NW</b>	150	230	G12	10,000	14500lm	4200K Neutral White	103	23	F
<b>ED150G12WW</b>	150	230	G12	10,000	14000lm	3000K Warm White	110	23	A
<b>ED70G12NW</b>	70	230	G12	10,000	6600lm	4200K Neutral White	96	23	F



# Quartz Double Ended



EDHQITS150NW

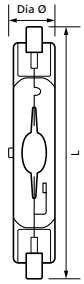
Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)					(mm)	(mm)	
<b>EDHQITS150NW</b>	150	230	RX7s	10,000	14500lm	4200K Neutral White	135	23	F
<b>EDHQITS150WW</b>	150	230	RX7s	10,000	11250lm	3000K Warm White	135	23	A
<b>EDHQITS70NW</b>	70	230	RX7s	10,000	5600lm	4200K Neutral White	117	20	G



# Coloured Metal Halide



EDHQITS150BL



Product Ref	Watts	Voltage	Cap	Lamp Life	CCT	L	Ø
	(W)	(V)					
EDHQITS150BL	150	230	RX7s	10,000	Blue	135	24
EDHQITS150GR	150	230	RX7s	10,000	Green	135	24
EDHQITS150MA	150	230	RX7s	10,000	Magenta	135	24
EDHQITS70BL	70	230	RX7s	10,000	Blue	114	20
EDHQITS70GR	70	230	RX7s	10,000	Green	114	20
EDHQITS70MA	70	230	RX7s	10,000	Magenta	114	20



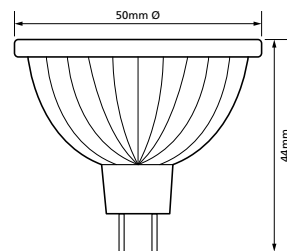




## Halogen Range



# MR11 & MR16



EDM258LL

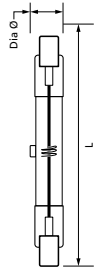


EDM262LL

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Total Lumens	CCT	Beam Angle °	L (mm)	Ø (mm)
EDM262LL	20	12	GU4	4,000	205lm	2900K Warm White	25	35	35
EDM266LL	35	12	GU4	4,000	430lm	2900K Warm White	25	35	35
EDM258LL	40	12	GU5.3	4,000	530lm	2900K Warm White	30	44	50
EDM269LL	20	12	GU5.3	4,000	205lm	2900K Warm White	30	45	50
EDM281LL	35	12	GU5.3	4,000	430lm	2900K Warm White	30	45	50



# Tungsten Double Ended



EDHES48240/78MM



EDHES80240



EDHES120240/78MM

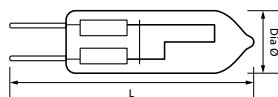
Product Ref	Watts	Voltage	Cap	Lamp Life (hrs)	Total Lumens	CCT	L	Ø	Energy Rating
	(W)	(V)						(mm)	
ED1000110	1000	110	R7s	2,000	18000lm	2900K Warm White	189	11	G
ED1500110	1500	110	R7s	2,000	33000lm	2900K Warm White	254	11	G
ED1500240	1500	230	R7s	2,000	33000lm	2900K Warm White	254	11	G
ED300110	300	110	R7s	2,000	5000lm	2900K Warm White	118	11	G
ED500110	500	110	R7s	2,000	9500lm	2900K Warm White	118	11	G
ED750110	750	110	R7s	2,000	16500lm	2900K Warm White	189	11	G
ED750240	750	240	R7s	2,000	16500lm	2900K Warm White	189	11	G
EDHES48240/78MM	48	230	R7s	2,000	750lm	2900K Warm White	78	12	G
EDHES80240	80	230	R7s	2,000	1380lm	2900K Warm White	118	12	G
EDHES80240/78MM	80	230	R7s	2,000	1380lm	2900K Warm White	78	12	G
EDHES120240	120	230	R7s	2,000	2220lm	2900K Warm White	118	12	G
EDHES120240/78MM	120	230	R7s	2,000	2220lm	2900K Warm White	78	12	G
EDHES400240	400	230	R7s	2,000	8550lm	2900K Warm White	118	12	G
BK1000110	1000	110	R7s	2,000	22000lm	2900K Warm White	189	11	G
BK1500110	1500	110	R7s	2,000	33000lm	2700-3000K Warm White	254	11	G
BK1500240	1500	230	R7s	2,000	33000lm	2900K Warm White	254	11	G
BK150110/78MM	150	110	R7s	2,000	2600lm	2900K Warm White	78	11	G
BK750110	750	110	R7s	2,000	16500lm	2900K Warm White	189	11	G



## Low Voltage Capsule



EDM32ESL



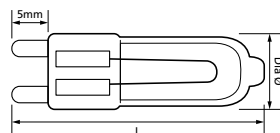
Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Total Lumens	CCT	L		Energy Rating
							L	Ø	
							(mm)		
EDM32ESL	40	12	GY6.35	2,000	905lm	2900K Warm White	42	10	G
EDM47ESL	16	12	G4	2,000	280lm	2900K Warm White	32	8	G
EDM75ESL	28	12	GY6.35	2,000	580lm	2900K Warm White	42	10	G
EDM91ESL	8	12	G4	2,000	104lm	2900K Warm White	32	8	G



## G9



EDHP18CL/ESL



Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	Total Lumens	CCT	L		Energy Rating
							L	Ø	
							(mm)		
EDHP18CL/ESL	18	230	G9	2,000	204lm	2700K Warm White	42.8	13	G
EDHP33CL/ESL	33	230	G9	2,000	460lm	2700K Warm White	42.8	13	G

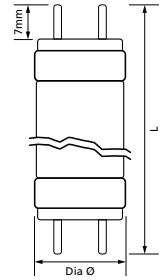




## Specialist Range



# T5/T8 Fly killer



EDF15/FK

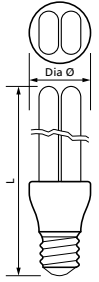


**Note:** It is recommended that insect killer lamps are changed every 12 months as UV levels deteriorate over the life of the lamp

Product Ref	Watts	Voltage	Cap	Lamp Life	L	Ø
	(W)	(V)				
EDF15/FK	15	230	G13	8,000	452	26
EDF18/FK	18	230	G13	8,000	600	26
EDF8/FK	8	230	G5	8,000	300	16



# ES Fly Killer



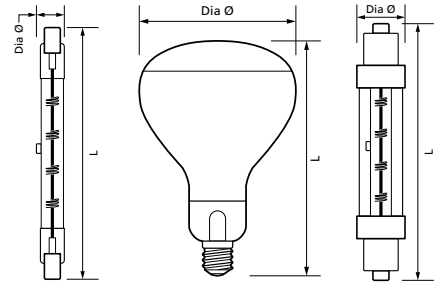
T13ES/FK

**Note:** It is recommended that insect killer lamps are changed every 12 months as UV levels deteriorate over the life of the lamp

Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	L (mm)	Ø
T13ES/FK	13	230	E27	10,000	165	41



## Heat Lamps



IR300CL



EDIR250ES/CL



IR300CL/P

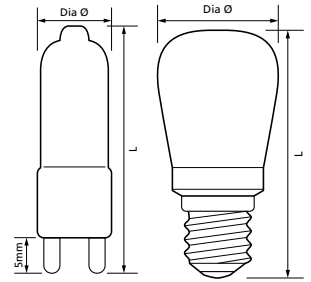


Product Ref	Watts (W)	Voltage (V)	Cap	Lamp Life (hrs)	CCT	L (mm)	Ø (mm)
EDIR250ES/CL	250	230	E27	5,000	2700K Warm White	185	125
IR300CL	300	230	R7s	1,000	Clear	118	10
IR300CL/P	300	230	R7s	1,000	Clear	118	19





# Appliance Lamps



EDOVEN40G9



EDFRIDGE15SES



OVEN40ES



EDOVEN15SES

Product Ref	Watts	Voltage	Cap	Lamp Life	Total Lumens	CCT	L	Ø
	(W)	(V)		(hrs)				
<b>EDFRIDGE15SES</b>	15	230	E14	1,000	80lm	2700 - 3000K Warm White	58	22
<b>EDHOOD40SES</b>	40	230	E14	1,000	420lm	2700 - 3000K Warm White	86	25
<b>EDOVEN15SES</b>	15	230	E14	1,000	66lm	2700 - 3000K Warm White	55	25
<b>EDOVEN25SES</b>	25	230	E14	1,000	100lm	2700 - 3000K Warm White	55	25
<b>EDOVEN40G9</b>	40	230	G9	2,000	460lm	2700 - 3000K Warm White	43	13
<b>EDOVEN40SES</b>	40	230	E14	1,000	380lm	2700 - 3000K Warm White	76	45
<b>OVEN40ES</b>	40	230	E27	1,500	360lm	2700 - 3000K Warm White	70	45



## Warranty Period

At Fusion Lamps we offer a warranty on many of our LED products, the warranty period can vary from 1 – 3 years.

The warranty period commences from the date the product was purchased and proof of purchase will be required to redeem the warranty. This purchase must have been made from a Fusion Lamps authorised wholesaler and not procured second hand at an auction or by any other means.

## Warranty Terms And Conditions

Fusion Lamps will repair or replace a faulty or defective product within the warranty period. A product is deemed faulty or defective if it fails to illuminate or alternatively if the lumen output falls outside of the stated lumen maintenance. For LED Lamps this is often L70/B50. If the product has been discontinued or is no longer available, we will provide a product with the closest available specification but Fusion Lamps is not responsible for any miss match with any other products on site.

The warranty does not cover damage due to misuse or negligence, accidental damage, acts of god, water damage, general wear & tear and installations in violation of any applicable standard code (eg.BS 7671) or instructions.

The warranty only covers products applied within "intended" or "normal use" as defined below:

- The operating conditions are in accordance with the information supplied on the packaging, instructions or Fusion Lamps website.
- The warranty is based on a maximum operating period of 14 hours per day.
- The ambient temperature never exceeds the operating temperature range of -20°C to +40°C.
- The relative humidity in the installation doesn't exceed 80% RH, or exceed the IP rating of the lamp / luminaire.
- Lamps are not subjected to more than the stated switching cycles on the packaging.
- Lamps that are used in a luminaire should have a minimum 10mm air flow around the lamp excluding the cap.
- The electrical installation in which the lamp or luminaire operates is not subjected to voltage fluctuations exceeding 230V +10% or -6%.

Fusion Lamps are not liable for any consequential costs such as labour, transport, loss of profit and access equipment in relation to this warranty.

At Fusion Lamps' request, access shall be given to the installation to carry out further investigations in to the failure cause and applicability of the warranty.

In the event of a failure or defect occurring, the product shall be returned to Fusion Lamps, Millfield Industrial Estate, Bentley, Doncaster, South Yorkshire, United Kingdom, DN5 0SJ. The carriage cost to return the product shall be covered by the customer. Upon receiving the product Fusion Lamps will be allowed time to investigate the source of the problem.

If it is concluded that the issue is due to manufacturing or material defect, Fusion Lamps will repair or replace the product, the carriage cost for the replacement will be covered by Fusion Lamps. NB. Only faulty or defective products will be replaced.

Fusion Lamps reserves the right to make the final decision on the validity of the claim.

B15/E27 .....	102	CRLED/GLS6ES .....	20
B16/835/2P .....	107	CRLED/GLS6ES/DIM .....	20
B16/835/4P .....	107	CRLED/GLS8.5BC .....	22
B22/E27 .....	102	CRLED/GLS8.5BC 110V .....	22
B28/835/2P .....	107	CRLED/GLS8.5BC/CW .....	22
B28/835/4P .....	107	CRLED/GLS8.5BC/CW/DIM .....	22
B38/835/4P .....	107	CRLED/GLS8.5BC/DIM .....	22
BK1000110 .....	131	CRLED/GLS8.5BC/SEN .....	23
BK1500110 .....	131	CRLED/GLS8.5ES .....	22
BK1500240 .....	131	CRLED/GLS8.5ES 110V .....	22
BK150110/78MM .....	131	CRLED/GLS8.5ES/CW .....	22
BK300110 .....	131	CRLED/GLS8.5ES/CW/DIM .....	22
BK750110 .....	131	CRLED/GLS8.5ES/DIM .....	22
CRLED/118 .....	65	CRLED/GLS8.5ES/SEN .....	23
CRLED/118 110V .....	65	CRLED/GLS9.5BC .....	24
CRLED/118WW .....	65	CRLED/GLS9.5BC/DIM .....	24
CRLED/221 .....	60	CRLED/GLS9.5ES .....	24
CRLED/284 .....	60	CRLED/GLS9.5ES/DIM .....	24
CRLED/2D14/2P .....	74	CRLED/MR11CW .....	54
CRLED/2D14/4P .....	74	CRLED/MR11DW .....	54
CRLED/2D18/4P .....	74	CRLED/MR11WW .....	54
CRLED/2D8/2P .....	74	CRLED/MR16/4CW .....	55
CRLED/2D8/4P .....	74	CRLED/MR16/4DW .....	55
CRLED/78 .....	65	CRLED/MR16/4WW .....	55
CRLED/78WW .....	65	CRLED/MR16/5CW .....	56
CRLED/CAN/BC .....	14	CRLED/MR16/5DW .....	56
CRLED/CAN/BC/CL .....	13	CRLED/MR16/5WW .....	56
CRLED/CAN/BC/CL/DIM .....	13	CRLED/MR16/7CW .....	58
CRLED/CAN/BC/CW .....	14	CRLED/MR16/7DW .....	58
CRLED/CAN/BC/CW/DIM .....	14	CRLED/MR16/7WW .....	58
CRLED/CAN/BC/DIM .....	14	CRLED/PAR16SES .....	40
CRLED/CAN/ES .....	14	CRLED/PAR20 .....	41
CRLED/CAN/ES/CL .....	13	CRLED/PAR20/DIM .....	41
CRLED/CAN/ES/CL/DIM .....	13	CRLED/PAR30 .....	42
CRLED/CAN/ES/CW .....	14	CRLED/PAR30/DIM .....	42
CRLED/CAN/ES/CW/DIM .....	14	CRLED/PAR38 .....	43
CRLED/CAN/ES/DIM .....	14	CRLED/PAR38 110V .....	43
CRLED/CAN/SBC .....	14	CRLED/PAR38/DIM .....	43
CRLED/CAN/SBC/CL .....	13	CRLED/PAR38BL .....	97
CRLED/CAN/SBC/CL/DIM .....	13	CRLED/PAR38GR .....	97
CRLED/CAN/SBC/CW .....	14	CRLED/PAR38RE .....	97
CRLED/CAN/SBC/CW/DIM .....	14	CRLED/R39 .....	28
CRLED/CAN/SBC/DIM .....	14	CRLED/R50 .....	28
CRLED/CAN/SES .....	14	CRLED/R50/DIM .....	28
CRLED/CAN/SES/CL .....	13	CRLED/R63 .....	28
CRLED/CAN/SES/CL/DIM .....	13	CRLED/R63/DIM .....	28
CRLED/CAN/SES/CW .....	14	CRLED/R80 .....	28
CRLED/CAN/SES/CW/DIM .....	14	CRLED/R80/DIM .....	28
CRLED/CAN/SES/DIM .....	14	E14/B22 .....	102
CRLED/G24-2P .....	77	E14/E27 .....	102
CRLED/G24-4P .....	77	E27/B22 .....	102
CRLED/G45/BC .....	17	E27/E40 .....	102
CRLED/G45/BC/CW .....	17	E27/G24-Q .....	102
CRLED/G45/BC/CW/DIM .....	17	E40/E27 .....	102
CRLED/G45/BC/DIM .....	17	ED1000110 .....	131
CRLED/G45/ES .....	17	ED100SONE/HO .....	119
CRLED/G45/ES/CW .....	17	ED100SONT/HO .....	118
CRLED/G45/ES/CW/DIM .....	17	ED11PL4P82 .....	110
CRLED/G45/ES/DIM .....	17	ED11PL4P84 .....	110
CRLED/G45/SBC .....	17	ED11PL82 .....	109
CRLED/G45/SBC/CW .....	17	ED11PL84 .....	109
CRLED/G45/SBC/CW/DIM .....	17	ED1500110 .....	131
CRLED/G45/SBC/DIM .....	17	ED1500240 .....	131
CRLED/G45/SES .....	17	ED150G12NW .....	126
CRLED/G45/SES/CW .....	17	ED150G12WW .....	126
CRLED/G45/SES/CW/DIM .....	17	ED150SONE/HO .....	119
CRLED/G45/SES/DIM .....	17	ED150SONT/HO .....	118
CRLED/GLS12.5BC .....	25	ED250SONE/HO .....	119
CRLED/GLS12.5ES .....	25	ED250SONT/HO .....	118
CRLED/GLS6BC .....	20	ED300110 .....	131
CRLED/GLS6BC/DIM .....	20	ED400SONE/HO .....	119

ED500110	131	EDF14/865	106
ED50SONE/HO	119	EDF15/835	104
ED50SONT/HO	118	EDF15/840	104
ED5PL4P82	110	EDF15/FK	134
ED5PL4P84	110	EDF18/830	104
ED5PL82	109	EDF18/835	104
ED5PL84	109	EDF18/840	104
ED70G12NW	126	EDF18/865	104
ED70SONE/HO	119	EDF18/FK	134
ED70SONE/HO/I	119	EDF21/830	106
ED70SONT/HO	118	EDF21/840	106
ED70SONT/HO/I	118	EDF24/840	106
ED750110	131	EDF28/830	106
ED750240	131	EDF28/840	106
ED7PL4P82	110	EDF30/830	104
ED7PL4P84	110	EDF30/835	104
ED7PL82	109	EDF30/840	104
ED7PL84	109	EDF30/865	104
ED9PL4P82	110	EDF35/830	106
ED9PL4P84	110	EDF35/835	106
ED9PL82	109	EDF35/840	106
ED9PL84	109	EDF36/830	104
EDCMHE150NW	121	EDF36/835	104
EDCMHE70NW	121	EDF36/840	104
EDCMHT150NW	122	EDF36/865	104
EDCMHT150WW	122	EDF39/840	106
EDCMHT35NW	122	EDF4/835	105
EDCMHT35WW	122	EDF49/835	106
EDCMHT70NW	122	EDF49/840	106
EDCMHT70WW	122	EDF54/840	106
EDCMHTC35NW	123	EDF58/830	104
EDCMHTC35WW	123	EDF58/835	104
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## 1. Interpretation

- (a) In these Conditions, the following words shall have the following meanings:  
 Buyer means the person, firm or company who places an Order with the Seller;  
 Customer Agreement means the Credit Account Application overleaf and any and all agreements made between the Buyer and the Seller for the supply of Goods.  
 Goods means any goods (or instalment or part thereof) howsoever ordered by the Buyer from the Seller;  
 Guarantee means the guarantee embedded in the Seller's Credit Account Application.  
 Guarantor means the person who enters into the Guarantee embedded in the Seller's Credit Account Application.  
 Order means any order sent to the Seller by the Buyer for the supply of Goods and/or Services;  
 Seller means Lancaster Holdings Ltd (CRN:11089637) whose registered office is at Georgina Mackie House, 141 Farmer Ward Road, Kenilworth, Warwickshire CV8 2SU;  
 Services means any services (or instalment or part thereof) howsoever ordered by the Buyer from the Seller.
- (b) A reference to a particular law is a reference to it as it is in force for the time being taking account of any amendment, extension, application or re-enactment and includes any subordinate legislation for the time being in force made under it.

## 2. Basis of Sale

- (a) An Order shall be accepted entirely at the discretion of the Seller and if accepted will only be accepted on the basis of these Conditions which shall (together with such conditions as may be expressly incorporated by reference herein or as may be agreed in writing by the Buyer and the Seller) form the entire agreement between the Buyer and Seller to the exclusion of any other conditions (including any terms or conditions which the Buyer purports to apply under any purchase order, confirmation of order, specification or other document).
- (b) Each Order which the Seller accepts (by way only of issue of the Seller's standard order acknowledgement form or on delivery of the Goods and/or performance of the Services (as the case may be) to the Buyer's address shown in the Order) shall constitute a separate legally binding contract between the Seller and the Buyer.
- (c) No addition, variation or substitution of these Conditions shall bind the Seller or form any part of any contract unless expressly accepted in writing by an authorised representative of the Seller.
- (d) The Seller's employees or agents are not authorised to make any representations with regard to the subject matter of any contract between the Seller and the Buyer. In entering into a contract with the Seller, the Buyer acknowledges that if it relies on any representation, advice or recommendation given by the Seller, its employees or agents to the Buyer as to the Goods and/or the Services (as the case may be) it does so entirely at the Buyer's own risk.

## 3. Specification

- (a) The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any Order and specification submitted by the Buyer and for checking and ensuring the accuracy of any order acknowledgment form issued by the Seller.
- (b) The Buyer shall not be entitled to rely on any typographical, clerical or other error or omission in any sales literature, quotations, price-list, acceptance of offer, invoice or other document or information issued by the Seller which the Buyer acknowledges shall not form part of or be incorporated by reference into any contract between the Seller and the Buyer. Any such error or omission shall be subject to correction without any liability on the part of the Seller.
- (c) The Seller reserves the right to make changes in the specification of the Goods and/or the Services (as the case may be) which are required to conform with any applicable statutory or regulatory requirements and which do not materially affect quality or performance.
- (d) If the Goods are to be manufactured or any process is to be applied to the Goods by the Seller in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Seller against all loss, damages costs and expenses awarded against or incurred by the Seller in settlement of any claim for infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which result from the Seller's use of the Buyer's specification.

## 4. Price of Goods and Services

- (a) The price for the Goods and/or the Services (as the case may be) shall be:  
 (i) the Seller's price set out in the Seller's quotation issued to the Buyer; or  
 (ii) in the absence of any such quotation, the Seller's standard price for the Goods or Services (subject to any discount in accordance with clause 4(g));  
 Any prices quoted are valid for only 30 days from the date of quotation or until earlier acceptance by the Buyer, after which they may be altered by the Seller

without giving notice to the Buyer.

- (b) Any quotation or estimate given by the Seller is an indication given in good faith and shall not become binding upon the Seller unless subsequently confirmed by the Seller in writing.
- (c) All prices quoted are based on information available at the date of quotation and the Seller reserves the right to vary prices at any time without notice prior to the date of issue of the relevant invoice and the price payable by the Buyer shall be the price applicable at the date of the invoice.
- (d) Unless otherwise stated, the price of the Goods and/or the Services (as the case may be) is exclusive of VAT and any other taxes and the cost of carriage and any other matters all of which the Buyer shall pay to the Seller in addition.
- (e) In the event of any increase in cost to the Seller which is beyond the control of the Seller (including (without limitation) any increases imposed upon the Seller by its own suppliers) and/or any variation or suspension of the work which is agreed to by the Seller upon the Buyer's request, or if the Buyer's instructions are incorrect or insufficient, the Seller shall be entitled to adjust the price of the Goods and/or the Services (as the case may be) to reflect the costs involved, and to adjust delivery dates as appropriate.
- (f) The Seller shall be entitled to bring an action for the price of the Goods and/or the Services (as the case may be) or part thereof notwithstanding that delivery and/or performance may not have taken place and/or that ownership in the Goods has not passed to the Buyer.
- (g) The Seller at its absolute discretion may decide to apply a discount in such amount as it may think fit to the price for the Goods and/or Services. The amount of any discount shall be recorded in the invoice issued to the Buyer.

## 5. Payment

- (a) The Seller shall be entitled to invoice the Buyer for the price of the Goods and/or the Services (as the case may be) at any time prior, on or following delivery of the Goods and/or performance of the Services (as the case may be) unless the Buyer wrongfully fails to take delivery of the Goods in which event the Seller shall be entitled to invoice the Buyer for the full amount at any time after the Seller has notified the Buyer that the Goods are ready for collection or (as the case may be) the Seller has tendered delivery of the Goods.
- (b) Until a Credit Account has been opened by the Seller in favour of the Buyer, the Buyer shall pay the price for the Goods and/or the Services (as the case may be) on or prior to delivery and (where applicable) upon receipt of the Seller's invoice.
- (c) The time of payment of the price shall be of the essence of any contract between the Seller and the Buyer.
- (d) A Buyer in whose favour a Credit Account has been opened shall, unless otherwise agreed in writing by the Seller, pay the price for the Goods and/or the Services (as the case may be) on or before the 28th day (or the next working day if the 28th day of a particular month is a Saturday or a Sunday) of the month following the date of the Seller's invoice.
- (e) No payment shall be deemed to have been received until the Seller has received cleared funds. All payments payable to the Seller under the contract between the Seller and the Buyer shall become due immediately on its termination despite any other provision.
- (f) Where payment is not made by the due date, regardless of its other remedies, the Seller shall be entitled to (i) cancel the contract between the Seller and the Buyer or suspend any further deliveries to the Buyer; and (ii) claim interest and/or compensation for reasonable debt recovery costs under the Late Payment of Commercial Debts (Interest) Act 1998 as amended and supplemented by the Late Payment of Commercial Debts Regulations 2002.
- (g) In the event that the Seller is, for whatever reason, unable to claim interest and/or compensation under the Late Payment of Commercial Debts (Interest) Act 1998 as amended and supplemented by the Late Payment of Commercial Debts Regulations 2002, the Seller reserves the right to charge the Buyer interest (both before and after any judgment) on the amount unpaid at the rate of 4% (four per cent) per annum above the base rate from time to time of the Bank of England, accruing on a daily basis until payment is made in full, and for such purposes, the Buyer and the Seller agree that such rate is reasonable and reflects a genuine pre-estimate of the loss that the Seller would incur as a result of any default by the Buyer to make payment on the due date.
- (h) If any payment is dishonoured or countermanded by the Buyer, the Seller shall have the right to charge the Buyer an administration fee of £25.00 (or such other fee as may be notified to the Buyer from time to time).
- (i) Any claim by the Buyer that an invoice rendered by the Seller is in the incorrect amount or contains any other error must be notified to the Seller in writing within 7 days of the date of the invoice. If the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to claim that the invoice is incorrect or contains any other error whatsoever.

## 6. Delivery

- (a) Delivery of the Goods shall be made by the Buyer collecting the Goods at the Seller's premises or, if some other place for delivery is agreed by the Seller, by the Seller delivering the Goods to that place.

- (b) Any delivery date quoted is given in good faith, but the Seller shall not be responsible for any delay in delivery of the Goods and/or the performance of the Services (as the case may be) howsoever caused. Time for delivery shall not be of the essence of the contract between the Seller and the Buyer and the Seller shall not be liable for any delay in delivery howsoever caused.
- (c) The Seller shall be entitled to make delivery by instalments (in which case each delivery shall constitute a separate contract), and to invoice the Buyer separately for each instalment. Failure by the Seller to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the contract as a whole between the Seller and the Buyer as repudiated.
- (d) Except in the case of delivery at the Seller's premises, the Buyer shall at its own expense use all reasonable endeavours to ensure that the Seller is able to freely access and make any deliveries to any other place for delivery at such time(s) as may be specified by the Seller. Any failure by the Buyer to comply with the provisions of this condition or to otherwise accept delivery (save upon such grounds for rejection as are specified in the law relating to the Sale of Goods) shall be deemed to be a breach of contract. Any additional costs incurred by the Seller in re-delivering the Goods (either to the originally agreed place for delivery or to such other place as may be reasonably requested by the Buyer) will be charged to the Buyer.
- (e) The quantity of any consignment of Goods as recorded by the Seller upon despatch from the Seller's premises shall be conclusive evidence of the quantity received by the Buyer on delivery unless the Buyer can provide conclusive evidence proving the contrary.
- (f) Notwithstanding the provisions of condition 8(e), the Seller shall not be liable for any under-delivery of Goods in whole or in part (even if caused by the Seller's negligence) unless the Buyer gives written notice to the Seller of the under-delivery within 48 hours of the date when the Goods are delivered to the Buyer (as recorded by the Seller) or, if there is no such record, when the Goods would in the ordinary course of events have been received. Any liability of the Seller for under-delivery of the Goods shall be limited to replacing the Goods within a reasonable time or issuing a credit note at the pro rata contract rate against any invoice raised for such Goods.

## 7. Risk and Title

- (a) Risk of damage to or loss of the Goods shall pass to the Buyer at the time of delivery.
- (b) Notwithstanding delivery and the passing of risk in the Goods, or any other provisions in these Conditions, ownership in the Goods shall not pass to the Buyer until the Seller has received in full (in cash or cleared funds) all sums due to it in respect of the Goods and all other sums which are or which become due to the Seller from the Buyer on any account.
- (c) Until ownership of the Goods has passed to the Buyer in accordance with these Conditions, the Buyer shall:
  - (i) hold the Goods on a fiduciary basis as the Seller's bailee;
  - (ii) store the Goods (at no cost to the Seller) separately from all other Goods of the Buyer or any third party in such a way that they remain readily identifiable as the Seller's property;
  - (iii) not destroy, deface or obscure any identifying mark or packaging on or relating to the Goods;
  - (iv) maintain the Goods in satisfactory condition insured on the Seller's behalf for their full price against all risks to the reasonable satisfaction of the Seller (and produce the policy of insurance to the Seller on request); and
  - (v) hold the proceeds of the insurance referred to in condition 7(c) (iv) on trust for the Seller and not mix them with any other money, nor pay the proceeds into an overdrawn bank account.
- (d) The Buyer may resell the Goods before ownership has passed to it solely on the following conditions:
  - (i) any sale shall be effected in the ordinary course of the Buyer's business at full market value and the Buyer shall hold such part of the proceeds of sale as represent the amount owed by the Buyer to the Seller on behalf of the Seller and the Buyer shall immediately account to the Seller accordingly; and
  - (ii) any such sale shall be a sale of the Seller's property on the Buyer's own behalf and the Buyer shall deal as principal when making such a sale.
- (e) The Buyer's right to possession of the Goods shall terminate immediately if:
  - (i) the Buyer has a bankruptcy order made against him or makes an arrangement or composition with his creditors, or otherwise takes the benefit of any statutory provision for the time being in force for the relief of insolvent debtors, or (being a body corporate) convenes a meeting of creditors (whether formal or informal), or enters into liquidation (whether voluntary or compulsory) except a solvent voluntary liquidation for the purpose only of reconstruction or amalgamation, or has a receiver and/or manager, administrator or administrative receiver appointed of its undertaking or any part thereof, or documents are filed with the court for the appointment of an administrator of the Buyer or notice of intention to appoint an administrator is given by the Buyer or its directors or by a qualifying floating charge holder (as defined in paragraph 14 of Schedule B1 to the Insolvency Act 1986), or a resolution is passed or a petition presented to any court for the winding-up of the Buyer or for the granting of an administration

order in respect of the Buyer, or any proceedings are commenced relating to the insolvency or possible insolvency of the Buyer; or

- (ii) the Buyer suffers or allows any execution, whether legal or equitable, to be levied on his/its property or obtained against him/it, or fails to observe or perform any of his/its obligations under the Contract or any other contract between the Seller and the Buyer, or is unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986 or the Buyer ceases to trade; or
- (iii) the Buyer encumbers or in any way charges any of the Goods.
- (f) The Buyer grants the Seller, its agents and employees an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Buyer's right to possession has terminated, to recover them.
- (g) Where the Seller is unable to determine whether any Goods are the goods in respect of which the Buyer's right to possession has terminated, the Buyer shall be deemed to have sold all goods of the kind sold by the Company to the Buyer in the order in which they were invoiced to the Buyer.
- (h) On termination of the contract between the Seller and the Buyer, howsoever caused, the Seller's (but not the Buyer's) rights contained in this condition 7 shall remain in effect.
- (i) Following the transfer of ownership of the Goods to the Buyer in accordance with these Conditions, the Buyer shall (where applicable) (i) be responsible for financing the collection, treatment, recovery and environmentally sound disposal of all WEEE (as hereinafter defined) arising or deriving from the Goods; and all WEEE arising or deriving from goods placed on the market prior to 13 August 2005 where such goods are to be replaced by the Goods and the Goods are of an equivalent type or are fulfilling the same function as that of such goods; (ii) comply with all additional obligations placed upon the Buyer by the Waste Electrical and Electronic Equipment Regulations 2006 ("the WEEE Regulations") by virtue of the Buyer accepting the responsibility set out in section (i) above; (iii) provide the Buyer's WEEE compliance scheme operator with such data, documents, information and other assistance as such compliance scheme operator may from time to time reasonably require to enable such compliance scheme operator to satisfy the obligations assumed by it as a result of the Buyer's membership of such scheme; and (iv) be responsible for all costs and expenses arising from and relating to its obligations set out in this paragraph (except in respect of Goods which constitute gas discharge lamps, in which case an upfront and 'visible' charge will have been levied at the outset and the Buyer undertakes to contact the compliance scheme operator of the gas discharge lamp branded manufacturer to arrange compliance with the WEEE Regulations on that basis). Terms used in this Condition shall have the meaning ascribed thereto in the WEEE Regulations.

## 8. Additional Terms of Guarantee

- (a) All sums of money which may not be recoverable from the Guarantor on the footing of the guarantee whether by reason of legal limitation on the Buyer or any other circumstance shall nevertheless be recoverable from the Guarantor as principal debtor and shall be paid on demand.
- (b) A demand for payment or any other notice to the Guarantor may be made by any authorised officer of the Seller by letter addressed to the Guarantor and delivered to its registered office or residential address and if sent by post shall be deemed to have been made at noon the following day after the letter was posted.
- (c) This Guarantee shall be a continuing security and the Guarantor shall remain liable for all sums due by the Buyer notwithstanding any event which absolves the Buyer from liability. The Guarantor shall remain liable notwithstanding any alteration to the Customer Agreement or any terms applying thereto, which may be agreed between the Seller and the Buyer.
- (d) Until payment in full by the Guarantor of all sums due to the Seller by the Buyer, the Guarantor shall not be entitled to participate in any security held or money received by the Seller on account of such balance.
- (e) This Guarantee may be terminated and the Guarantor's liability shall be fixed at the expiration of one calendar month after receipt by the Seller from the Guarantor of notice in writing to terminate it. It shall be lawful for the Seller to continue the account with the Buyer notwithstanding such termination and the Guarantor shall remain liable for any amount due at the date of termination of this Guarantee.
- (f) The Guarantor may be released absolutely from the Guarantee upon written application to the Seller. Any such release shall be at the Seller's absolute discretion and shall be on such terms including as to the date of release that the Seller may specify. Any settlement discharge or release between the Guarantor and the Seller shall be conditional upon no security or payment to the Seller by the Buyer or any other person being avoided or reduced due to insolvency laws or otherwise.
- (g) The Seller may at any time without giving notice to or obtaining the consent of the Guarantor refuse or grant further credit to the Buyer for any period and compound with give time for payment grant other indulgence or make any



other arrangements with the Buyer, give up modify exchange or abstain from perfecting or taking advantage of or enforcing any security guarantee and discharge any parties thereto and realise any securities in such manner as the Seller may think expedient.

- (h) All costs charges and expenses incurred by the Seller in obtaining payment of the moneys secured under this guarantee (and so that any taxation of the Seller's costs charges and expenses shall be on a full indemnity basis) shall be recoverable from the Guarantor as a debt.

## 9. Warranties and Liability

- (a) The Seller warrants that, except in relation to intellectual property rights of third parties, it has good title to the Goods and (subject to the conditions set out below) the Goods shall correspond with their written specification (if any) at the time of delivery and will be free from material defects in materials and workmanship for a period of 12 months or separately stated period from delivery, provided that the Seller shall be under no liability:
- (i) in respect of any defect arising from any drawing, design, specification or stipulation of the Buyer; or
- (ii) in respect of any defect or lack of performance arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow Seller's instructions, or misuse, alteration or repair of the Goods without the Seller's approval; or
- (iii) in respect of parts or materials not manufactured by the Seller, in respect of which the Buyer shall only be entitled to the benefit of any warranty or guarantee which is given by the manufacturer to the Seller; or
- (iv) if the full price for the Goods has not been paid by the due date for payment.
- (b) The Seller warrants that the Services will be provided using reasonable care and skill and, as far as reasonably possible, in accordance with the contract between the Seller and the Buyer.
- (c) Subject as expressly provided in these Conditions, and except where the Goods and/or Services (as the case may be) are supplied to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.
- (d) Where the Goods and/or the Services (as the case may be) are supplied under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) the statutory rights of the Buyer are not affected by these Conditions.
- (e) Any claim by the Buyer arising from any defect in the quality or condition of the Goods or their failure to correspond with the agreed specification shall (whether or not delivery is refused by the Buyer) be notified to the Seller in writing within 7 days of delivery or (where the defect or failure was not apparent on reasonable inspection) within a reasonable time of the defect or failure becoming apparent. If delivery is not refused, and the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability for such defect or failure, and the Buyer shall be bound to pay the contract price as if the Goods had been delivered in accordance with the contract between the Seller and the Buyer.
- (f) Where the Seller accepts a claim made by the Buyer in respect of the Goods made in accordance with these Conditions, the Buyer's right shall be to a full or partial credit note (in relation to Goods purchased on credit account) full or partial refund (in relation to Goods purchased by cash) or replacement of the Goods (or the part(s) in question), at the Seller's option, but the Seller shall have no further liability to the Buyer.
- (g) Except in respect of death or personal injury caused by the Seller's negligence, the Seller shall not be liable to the Buyer by reason of any representation (unless fraudulent), or any implied warranty, condition, or other term, or any tortious act (including negligence) or any duty at common law, or under the express terms of the contract between the Seller and the Buyer, or in any manner whatsoever:-
- (i) for any indirect, special or consequential loss or damage;
- (ii) for any economic loss including loss of profits, loss of business, depletion of goodwill and/or similar losses, loss of anticipated savings, loss of goods, loss of contract, loss of use; or loss of /or corruption of data or information, howsoever caused and even if foreseeable by the Seller; which in either case may arise out of, or in connection with the supply of the Goods and/or the Services or their use or resale by the Buyer (and whether caused by the negligence of the Seller, its employees or agents or otherwise) save as may be expressly provided in these Conditions.
- (h) The entire liability of the Seller under or in connection with the contract between the Seller and the Buyer shall not exceed the price of the Goods and/or the Services (as the case may be) save as expressly provided in these Conditions.
- (i) Any repair, replacement or refund of any monies made by the Seller to the Buyer shall not under any circumstances be deemed to be an admission of any liability on the part of the Seller to the Buyer (or any third party), and shall be without prejudice to the rights of the Seller which the Seller hereby reserves in full should it make any such repairs, replacements or refunds of monies.
- (j) The Seller shall not be liable to the Buyer, or be deemed to be in breach of contract by reason of any delay in performing, or any failure to perform any of

the Seller's obligations in relation to any Goods and/or Services (as the case may be) if the delay or failure is due to any cause beyond the Seller's reasonable control.

## 10. Design and Drawings

- (a) All figures, statements, advice, recommendations, drawings, designs, suggestions and specifications contained or referred to in any documents supplied by the Seller to the Buyer are given in good faith, but shall be approximate only, and shall not (unless the Seller specifically warrants the same in writing) be warranted to be accurate. All such matters should be checked and verified for accuracy and suitability by the Buyer, and accordingly the Seller accepts no liability or responsibility whatsoever in relation to such matters unless specifically warranted in writing in the manner referred to above.
- (b) The Seller will make available information required in relation to the design, construction and testing of the Goods as is reasonably necessary for the Buyer to take appropriate steps to see that the Goods will be, when installed, safe and not constitute a risk to the health of any person provided always that the Buyer shall indemnify, and keep indemnified, the Seller against all claims, costs, actions, damages or liabilities resulting directly or indirectly (including economic and consequential loss) for any claim brought against the Seller arising out of the use of the Goods.

## 11. Termination/Suspension

- (a) The Buyer shall not be entitled to cancel the contract between the Seller and the Buyer and if the Buyer purports to do so it shall indemnify the Seller for all losses, costs and expenses incurred by the Seller in relation to the contract.
- (b) Without prejudice to any other right or remedy, the Seller shall be entitled to suspend forthwith further performance and/or terminate contractual relations with the Buyer without any liability to the Buyer if the Buyer:
- (i) is in breach of any of these Conditions or (in the absolute opinion of the Seller) is likely to breach any Condition herein; or
- (ii) becomes insolvent, has a receiver appointed over the whole or any part of its assets, enters into any compound with creditors, or has an order made or resolution passed for it to be wound up (otherwise than in furtherance of a scheme for amalgamation or reconstruction) or if the ownership or control of it shall pass into the hands of any other legal person, or an event analogous occurs in respect of the Buyer in any jurisdiction to which the Buyer is subject.

## 12. General

- (a) The Seller is a member of a group of companies and accordingly the Seller may perform any of its obligations or exercise any of its rights hereunder by itself or through any other member of its group.
- (b) The Seller shall be entitled to subcontract the whole or any part of its obligations under the contract between the Seller and the Buyer to any third party which it may at its absolute discretion determine but any subcontract shall not relieve the Seller of its obligations hereunder.
- (c) Any notice required or permitted to be given by either party to the other under these Conditions shall be given in writing and addressed to the other party at its registered office, principal place of business or at such other address as may be notified to the other party from time to time.
- (d) No waiver by the Seller of any breach of contract by the Buyer shall be considered a waiver of any subsequent breach of the same or any other provision.
- (e) If any term of these Conditions prove illegal or unenforceable in whole or part, such term shall be deemed excised from these conditions without effect upon the validity of the remainder of these Conditions.
- (f) A person who is not a party to the contract between the Seller and the Buyer has no right under the Contracts (Rights of Third Parties) Act 1999 to enforce or enjoy the benefit of any term of such contract.
- (g) In addition to these Conditions of Sale, Orders placed via the Seller's website shall be subject to any legal terms and notices published there by the Seller.
- (h) These Conditions and the contract between the Buyer and Seller shall be governed by the laws of England, and the English Courts shall have exclusive jurisdiction.

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