



# Lamp Selection Guide

Select from our expanding range of lighting solutions

November 2016

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# Lamp Selection Guide

Choosing the correct **LED lighting and lamps** can help you save valuable time on ongoing maintenance and drastically reduce your energy costs.

This handy guide will help you to select the right lighting for the job, whatever industry you are working in.

Here are some key considerations for making the correct selection:

## SELECTING THE SHAPE

Common shapes and styles available:



### Classic

- A traditional bulb shape, suitable for older fittings



### Candles

- Flame-shaped bulb, ideal for older style fixtures
- Modern LED candle lights offer convenience and value for money



### Spotlights/ Reflectors

- Specially designed for bright, targeted lighting. Ideal for panel installation in retail, showroom or display areas
- Great energy savings compared to standard halogen reflector lamps



### Capsules

- Two-pronged halogen bulbs typically used in smaller industrial light fixtures
- Ideal for smaller applications requiring high luminosity

## DECORATIVE STYLES



### Clear

- Ideal for chandeliers to create added sparkle



### Filament Clear

- 300+ degree beam angle, ideal for glass luminaires for sparkle or for shades where a wide beam angle is needed

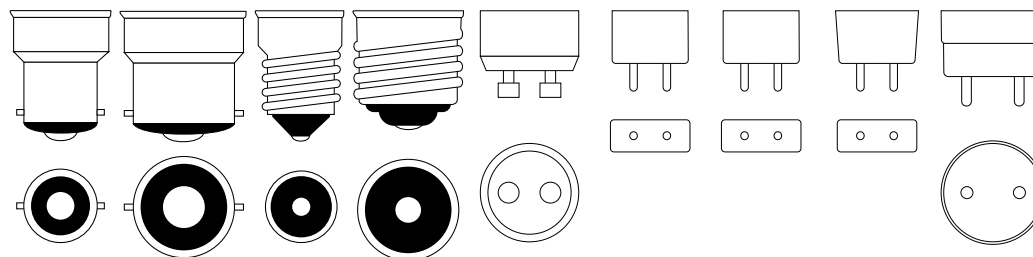


### Frosted

- A soft warm diffused lamp where less glare is needed

## SELECTING THE BASE

Please make sure to select the correct cap fitting when selecting your lamp. The diagrams below show some of the fitting types you will find in this guide:



B15

B22

E14

E27

GU10

MR11

MR16  
(GU5.3)

GY6.35

T5/T8  
Tube

## COMMONLY USED TERMS/ATTRIBUTES

**Wattage** – A measure of the energy consumed by a fitting.

**Lumens** – A unit of measurement used to translate how much illumination a light source provides.

**CRI (Colour Rendering Index)** – A numeric evaluation of the accuracy (in relation to 'daylight' at 100) of various types of light source. CRI+90 lamps are ideal for lighting in galleries, museums, clothing stores etc, where accuracy of colour is critical.

**Dimmable vs non dimmable** – Remember that not all lamps are dimmable. However dimmable lamps now exist that perform like traditional lamps, where the colour temperature gets warm as the lamp dims.

Note: Some traditional dimmers do not work with LEDs, requiring the dimmer to be updated.

**Beam angle** – The point at which intensity of a source drops to 50% of maximum (centre reading) measured in degrees of the full angle.

**Colour temperature** – A way to describe the light appearance provided by a light source. It is measured in degrees of kelvin (k) on a scale from 1,000 to 10,000.

Choose by colour temperature to influence a room's atmosphere. Lamps are available in a wide range of shapes and styles.

2700k – Warm white – ideal for bedrooms, living rooms restaurants, where ambience is needed.

4000k – Cool white – ideal for offices, kitchens, bathrooms, common in exterior fittings.

+6000k – Daylight – ideal for offices.

**Lux** – A unit of light measurement taking area into account, essentially it relates to the light intensity.

(Key information provided by Osram®)

# LED Retrofit - Key Facts

The innovation in lighting over recent years has given rise to many retrofit options for LEDs. Replacing lamps in existing fittings with LED equivalents is one of the easiest ways to make energy savings. Decisions often must be made in terms of lumen values, colour temperatures, lamp styles and other factors but knowing a few facts about how and what to retrofit will set you in good stead.

## Benefits of retrofit

Advances in technology constantly drive down LED replacement costs and bring many other benefits. These include:

- **Low energy consumption** – Save up to 85% on energy costs with replacement LEDs. This fact alone can be enough to justify the change to LED, for both commercial and domestic users
- **High efficiency** – LED lamps produce far less heat than traditional incandescent types
- **Instant light** – Unlike CFL lamps, LEDs come on immediately when switched. There is no warm-up period
- **Light colour** – LED lamps can produce a light colour that is close to an incandescent lamp but whiter, colder colours are also available
- **Lamp life** – LEDs can now last 20 times that of incandescent lamps. This major benefit can lower ongoing maintenance and replacement costs tremendously

## Typical energy savings

Energy savings made by using LED against other types of lamp

	Halogen 50W	Incandescent 60W	CFL 11-15W
LED Equivalent	6.5W	11.5W	11.5W
<b>Save</b>	<b>87%</b>	<b>81%</b>	<b>12-23%</b>

## Payback periods

When compared with halogen lamps, the payback period can be as little as 6 months.

Watts / Lifetime	Yearly Running Cost	Cost over LED Lifetime
LED 6.5W / 25,000 hrs	£1.00	£22.83
Halogen 50W / 2,000 hrs	£7.67	£175.11
Savings per LED lamp	£6.67 per year	£152 lifetime
Saving for 8 LED lamps	£53.36 per year	£1,218 lifetime



## Lumens or watts?

Incandescent Wattage	Approx Lumens
25W	230 - 270 lamp
35W	250 - 280 spotlight
	200-300 Useful Lumens (spotlight)
40W	390 - 410 lamp
	440 - 460 lamp
50W	330 - 400 spotlight
	350-450 Useful Lumens (spotlight)
60W	800 - 850 lamp
75W	1000-1100 lamp
100W	1500-1600 lamp

## How many lumens do I need?

Area	Lumens/Sq M
Kitchen	300-400
Kitchen (Task)	700-800
Living Room	400-500
Hallway	300
Bedroom	300-400
Bedroom (Task)	700-800
Bathroom	500-600
Bathroom (Task)	700-800
Reading Area	400

## Where to use LEDs

LED Type	Use to Replace	Typical Applications	Suitable Fixtures	Points to Note
<b>MR11 / MR16 GU5.3 LED Reflectors</b>	MR11 and MR16 GU5.3 Halogen Lamps	Ideal for constant levels of strong illumination in contained spaces: laboratories, hospitals, transport and general shop lighting	Troffers / Downlighting	A LED lamp replacement may yield different light output, distribution and heat properties than the lamp it is replacing. It may also differ in size from the original lamp, so it is recommended to test a lamp in a single fixture before investing in more
<b>GU10 LED Reflectors</b>	GU10 Halogen Lamps	As above	As above	As above
<b>T8 LED Tubes</b>	T8 Fluorescent Tubes	Wider levels of diffused light for larger spaces: office, warehouse, manufacturing facility	As above	Make sure the fixture into which a LED tube is being placed can accommodate any extra weight. Many LED linear replacement lamps require a certified electrician to bypass the fluorescent ballast
<b>LED GLS Lamps (B22, E14, E17, E27)</b>	Classic incandescent and halogen candles and bulbs (B22, E14, E17, E27)	More common in restaurants, retail environments and around the home	Traditional fixtures, including ceiling mount	Pay attention to the distribution of LED replacement lamps - this may not be the same as an incandescent lamp

# Technologies We Offer

## LED Lamps

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The key benefit of LED lamps is that they use 80% less energy to create the same light output as traditional halogen or incandescent technologies.

LED lamps also last significantly longer than typical halogen lamps, resulting in lower maintenance costs.

## Fluorescent Tubes

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Fluorescent tubes present a cost effective way to light large spaces. They offer a long working life and efficient colour rendering and benefit from minimal environmental impact.

Fluorescent tubes used in a business can save considerable amounts of money, both in running costs and ongoing replacements. They will light up a working environment better than standard fittings with incandescent light bulbs. We recommend changing the starter switch each time you change the tube to prolong the lamp life.

## Halogen Lamps

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Halogen lamps use a halogen gas to increase both light output and rated life. They are known for their high efficiency, quality of light and high rated life compared to traditional incandescent lamps.

They are used in a variety of industrial applications, particularly when high levels of brightness are required This includes vehicle headlamps, under-cabinet lighting, and work lights.

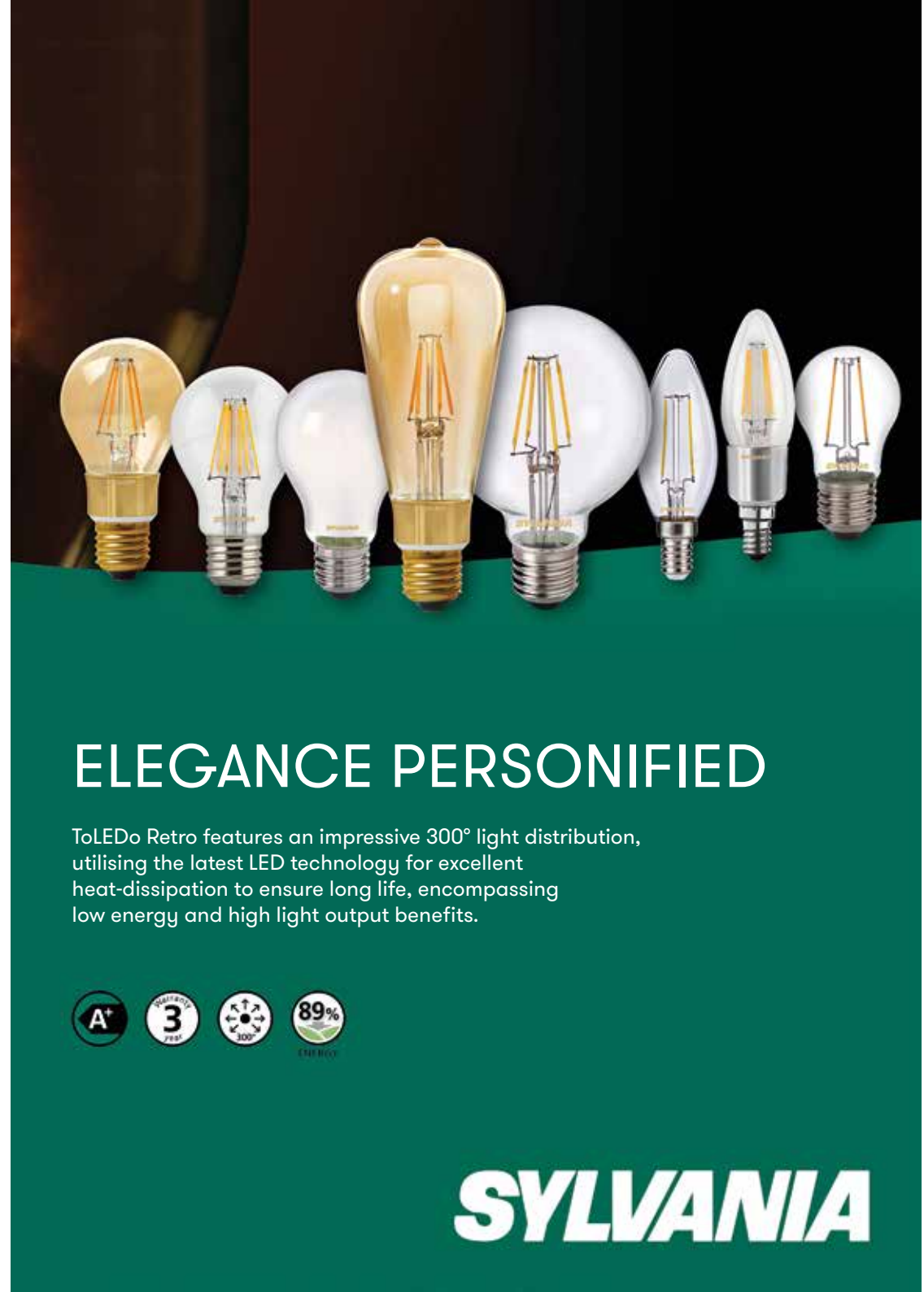
## High Intensity Discharge Lamps

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High Intensity Discharge lamps (HID) are known for their high efficiency and long rated life. They require a ballast in order to generate the initial surge of electricity needed to start and to regulate power during operation.

HID lamps are used primarily in applications where it is important to create as much visible light per watt as possible. Major applications include streetlights, factories, warehouses, large retail facilities, stadiums and plant growing rooms. HID is sometimes used in high-end vehicle headlights.



# ELEGANCE PERSONIFIED

ToLEDo Retro features an impressive 300° light distribution, utilising the latest LED technology for excellent heat-dissipation to ensure long life, encompassing low energy and high light output benefits.



# SYLVANIA

# LED Lamps



Plastic enclosure



Plastic enclosure



Glass enclosure



Plastic enclosure



Glass enclosure

Some images representative of range

## MR11 (GU4) LED Reflector

Brand	Image	Wattage	Equivalent Wattage	Beam Angle	Diameter	Lumens	Dimmable	Lamp Life	Energy Rating	2700K	3000K	4000K	6000K
PHILIPS	1	3.5W	20W	24°	35mm	210	No	25000h	A+	839-4788			
OSRAM	1	3.1W	20W	30°	35mm	184	Yes	25000h	A+	901-6657			

## MR16 (GU5.3) LED Reflector

Brand	Image	Wattage	Equivalent Wattage	Beam Angle	Diameter	Lumens	Dimmable	Lamp Life	Energy Rating	2700K	3000K	4000K	6000K
OSRAM	2	4.9W	35W	36°	50mm	350	Yes	25000h	A+	901-6458	901-6451	901-6455	
PHILIPS	2	6.5W	35W	35°	50mm	440	Yes	25000h	A+	839-4760	839-4779	839-4772	
	2	5W	40W	120°	50mm	450	No	25000h	A+		786-9124	786-9128	786-9137
	2	7.5W	35W	38°	50mm	556	No	30000h	A+		795-6528	795-6519	
RS PRO	2	4.5W	35W	36°	50mm	345/380	No	15000h	A+ / A++	123-7957		123-7958	
	2	5W	35W	36°	50mm	345/380	Yes	15000h	A+	123-7959		123-7960	
	3	5W	35W	36°	50mm	345/396	No	15000h	A+	123-7961		123-7962	
	3	6W	35W	36°	50mm	345/360	Yes	15000h	A / A+	123-7963		123-7964	

## GU10 LED Reflector

Brand	Image	Wattage	Equivalent Wattage	Beam Angle	Diameter	Lumens	Dimmable	Lamp Life	Energy Rating	2700K	3000K	4000K	6000K
OSRAM	4	5.9W	50W	36°	50mm	350	Yes	35000h	A+	901-6388	901-6382	901-6391	
Verbatim	4	8.5W	86W	35°	50mm	620	Yes	30000h	A+		839-6087	839-6081	
	4	6W	75W	40°	50mm	220	No	20000h	A+		786-9130	786-9134	
	4	5W	41W	120°	50mm	410/450	No	25000h	A++	851-3078		851-3071	851-3074
RS PRO	4	4.7W	50W	36°	50mm	345/380	No	15000h	A+	123-7965		123-7966	
	4	5.5W	50W	36°	50mm	345/380	Yes	15000h	A+	123-7967		123-7968	
	5	5.3W	50W	36°	50mm	380/390/390	No	15000h	A+	123-7969		123-7970	123-7971
	5	5.8W	50W	36°	50mm	345/380	Yes	15000h	A+	123-7972		123-7973	



# LED Lamps



Some images representative of range

LED GLS Lamps											
Brand	Image	Base	Wattage	Equivalent Wattage	Clear / Frosted	Lumens	Dimmable	Energy Rating	2700K/3000K	4000K	
		B22	4.5W	25W	Clear	270	Yes	A+	918-8714		
	1	B22	11W	60W	Frosted	810	Yes	A+	920-9225		
	1	B22	14W	75W	Frosted	1100	Yes	A+	920-9237		
		B22	10W	60W	Frosted	810	No	A+	122-4643		
		B22	16W	100W	Frosted	1521	No	A+	122-4649		
	4	E14	6W	40W	Clear	470	Yes	A+	920-9243		
	7	E14	6W	40W	Clear	470	Yes	A+	920-9247		
	1	E27	11W	60W	Frosted	810	Yes	A+	920-9221		
	1	E27	14W	75W	Frosted	1100	Yes	A+	920-9234		
		1	B22	8.5W	60W	Frosted	806	Yes	n/a	914-7186	
		E14	2W	25W	Frosted	230	No	A++	902-6755		
	2	E14	3.2W	25W	Frosted	250	No	A+	902-6761		
	2	E14	3.8W	37W	Clear	430	No	A++	902-6770		
	9	E14	1.6W	15W	Frosted	140	Yes	A++	901-6562	901-6568	
	2	E27	2W	25W	Clear	250	No	A++	902-6767		
	1	E27	9W	60W	Frosted	806	Yes	n/a	901-6495		
	1	E27	11W	75W	Frosted	1055	Yes	A+	901-6524	901-6528	
		5	B22	4.5W	40W	Clear	470	Yes	A++	922-9976	
		2	B22	5.5W	50W	Clear	640	Yes	A++	922-9966	
		1	B22	7W	60W	Clear	806	Yes	A++	922-9979	
	5	E14	4.5W	40W	Clear	470	Yes	A++	922-9985		
	8	E14	4.5W	40W	Clear	470	Yes	A++	923-0005		
	5	E27	4.5W	40W	Clear	470	Yes	A++	922-9988		
	1	E27	8.5W	60W	Frosted	806	Yes	n/a	909-8176		
	2	E27	7W	60W	Clear	806	Yes	A++	922-9972		

LED GLS Lamps										
Brand	Image	Base	Wattage	Equivalent Wattage	Clear / Frosted	Lumens	Dimmable	Energy Rating	2700K/3000K	4000K
	4	B22	6W	40W	Clear	470	Yes	n/a	901-3128	
	4	E14	4W	25W	Clear	250	Yes	n/a	901-3103	
	7	E14	6W	40W	Clear	470	Yes	n/a	901-3134	
	7	E27	6W	40W	Clear	470	Yes	n/a	901-3137	
	1	E27	11W	75W	Frosted	1055	Yes	n/a	910-7844	
	3	B22	5.4W	40W	Frosted	470	No	A+	123-7929	
	3	E14	5.4W	40W	Frosted	470	No	A+	123-7930	
	3	B22	5.6W	40W	Frosted	470	Yes	A+	123-7931	
	3	E14	5.6W	40W	Frosted	470	Yes	A+	123-7932	
	5	B22	4W	40W	Clear	470	No	A++	123-7933	
	5	E14	4W	36W	Clear	420	No	A++	123-7934	
	5	B22	4.5W	40W	Clear	470	Yes	A++	123-7935	
	5	E14	3.5W	31W	Clear	350	Yes	A++	123-7936	
	1	B22	8.5W	60W	Frosted	806	No	A+	123-7937	
	1	E27	8.5W	60W	Frosted	806	No	A+	123-7938	
	1	B22	9.5W	60W	Frosted	806	Yes	A+	123-7939	
	1	E27	9.5W	60W	Frosted	806	Yes	A+	123-7940	
	2	B22	6W	60W	Clear	806	No	A++	123-7941	
	2	E27	6W	60W	Clear	806	No	A++	123-7942	
	2	B22	7W	60W	Clear	806	Yes	A++	123-7943	
	2	E27	7W	60W	Clear	806	Yes	A++	123-7944	
	6	B22	5.5W	40W	Frosted	470	No	A+	123-7945	
	6	E14	5.5W	40W	Frosted	470	No	A+	123-7946	
	6	B22	5.6W	40W	Frosted	470	Yes	A+	123-7947	
	6	E14	5.6W	40W	Frosted	470	Yes	A+	123-7948	
	8	B22	4W	40W	Clear	470	No	A++	123-7949	
	8	E14	4W	36W	Clear	420	No	A++	123-7950	
	8	B22	4.5W	40W	Clear	470	Yes	A++	123-7951	
8	E14	3.5W	31W	Clear	350	Yes	A++	123-7952		

# LED Lamps



LED GLS Lamps with Dawn/Dusk Sensor									
Brand	Shape	Base	Wattage	Equivalent Wattage	Clear / Frosted	Lumens	Dimmable	Energy Rating	2700K / 3000K
RS PRO	1	B22	9.5W	60W	Frosted	806	No	A+	123-7955
	1	E27	9.5W	60W	Frosted	806	No	A+	123-7956

LED Non-Reflector Lights									
Brand	Shape	Base	Shape	Wattage	Clear / Frosted	Lumens	Dimmable	Energy Rating	2700K / 3000K
RS PRO	2	R7S	Linear 78mm	5.2W	Clear	600	No	A++	123-7953
	2	R7S	Linear 11mm	9.5W	Clear	1200	No	A++	123-7954

T8 LED Tubes												
Brand	Image	Length	Wattage	Rotating End Clips	Lamp Life	Energy Rating	Lumens	3000K	Lumens	4000K	Lumens	6500K
OSRAM	3	2 ft	8W	No	30000h	A+	720	110-9139	800	110-9140	800	110-9141
	3	4 ft	17W	No	30000h	A+	1530	110-9143	1700	110-9144	1700	110-9145
	3	5 ft	20W	No	30000h	A+	1800	110-9146	2000	110-9147	2000	110-9148
GE	3	2 ft	8W	No	40000h	A+	700	913-9867	800	913-9876	800	913-9879
	3	4 ft	20W	No	40000h	A+	1850	913-9895	2050	913-9905	2050	913-9908
	3	5 ft	27W	Yes	40000h	A+	3000	913-9902	3000	913-9911	3000	913-9914
PHILIPS	3	2 ft	10W	Yes	40000h	A+	1000	901-3140	1050	901-3131	1050	901-3143
	3	4 ft	20W	Yes	40000h	A+	2300	901-3153	2500	901-3162	2500	901-3165
	3	5 ft	25W	Yes	40000h	A++	2900	901-3169	3700	901-3178	3700	901-3171



Some images representative of range

LED Capsule Lamps									
Brand	Image	Base	Wattage	Lumens	Dimmable?	Energy Rating	2700K / 3000K	4000K / 4200K	6000K
Orbitec	4	G9	2.2W	200	No	A++	820-8820		
OSRAM	6	G9	2.2W	200	No	A+	901-6571		
	5	G4	2.2W	200	No	A++	901-6574		
PHILIPS	7	G4	1.2W	105	No	A++	839-4782		
	8	G4	1.5W	110	No	A++	774-6933	774-6936	774-6930
	9	G4	1W	120	No	A++	786-9152	786-9156	786-9165
RS PRO	10	G4	1W	90	No	A+	786-9168	786-9162	786-9171
	11	G4	1.1W	100	No	A++	123-7926		
	12	G4	1.5W	160	No	A++	123-7927		
Verbatim	13	G9	2W	160	No	A++	123-7928		
	14	G4	1W	80	No	A++	815-9248		

# Fluorescent Tubes



Quality	Triphosphor	Triphosphor	Triphosphor	Triphosphor
Colour Description	Warm white	White	Cool white	Daylight
Colour Temperature	3000K	3500K	4000K	6500K
Colour Reference	830	835	840	865

Brand	Length	Wattage	Diameter	Pack size	Lamp Life	Energy Rating	Lamp Size				
OSRAM	2 ft	13W	2/8"	20	8000h	A	T2	409-810			
	1.8 ft	14W	5/8"	20	24000h	A+	T5	792-6867	494-6691	494-6720	792-6861
SYLVANIA	1.8 ft	14W	5/8"	25	24000h	A+	T5	743-6462		711-7051	794-3193
OSRAM	2.8 ft	21W	5/8"	20	20000h	A+	T5	700-1378		494-6736	792-6873
SYLVANIA	2.8 ft	21W	5/8"	25	24000h	A+	T5	743-6469		711-7060	
PHILIPS	1.8 ft	24W	5/8"	40	24000h	A	T5	377-498		377-509	
SYLVANIA	1.8 ft	24W	5/8"	25	24000h	A	T5	743-6453		711-7076	
OSRAM	3.8 ft	28W	5/8"	20	20000h	A+	T5	700-1372		494-6742	792-6886
SYLVANIA	3.8 ft	28W	5/8"	25	24000h	A+	T5	743-6447		711-7063	
OSRAM	4.8 ft	35W	5/8"	20	20000h	A+	T5	700-1381	621-7743	621-7737	
SYLVANIA	4.8 ft	35W	5/8"	25	24000h	A+	T5			711-7067	
PHILIPS	2.8 ft	39W	5/8"	40	24000h	A	T5	376-821		376-827	
SYLVANIA	2.8 ft	39W	5/8"	25	24000h	A+	T5			711-7079	
PHILIPS	4.8 ft	49W	5/8"	40	24000h	A	T5	376-837		376-966	
SYLVANIA	4.8 ft	49W	5/8"	25	24000h	A+	T5			711-7073	
PHILIPS	3.8 ft	54W	5/8"	40	24000h	A	T5	377-325		376-877	
SYLVANIA	3.8 ft	54W	5/8"	25	24000h	A+	T5	743-6456		711-7082	
PHILIPS	4.8 ft	80W	5/8"	40	24000h	A	T5	376-887		376-944	
OSRAM	5 ft	80W	5/8"	25	24000h	A	T5	792-6924		792-6928	792-6937
OSRAM	2 ft	18W	1"	25	20000h	A	T8	656-1270	656-1264	656-1400	656-1258
SYLVANIA	2 ft	18W	1"	25	20000h	A	T8	711-7032	711-7001	711-7023	711-7035
PHILIPS	3 ft	30W	1"	25	20000h	A	T8	377-022			
OSRAM	3 ft	30W	1"	25	20000h	A	T8	792-6962		656-1393	792-6971
	4 ft	36W	1"	25	20000h	A+	T8	656-1242	656-1292	656-1321	656-1337
SYLVANIA	4 ft	36W	1"	25	20000h	A	T8	711-7048	711-7007	711-7039	711-7041
OSRAM	5 ft	58W	1"	25	20000h	A	T8	656-1371	656-1309	656-1315	656-1365
SYLVANIA	5 ft	58W	1"	25	20000h	A	T8	711-7054	711-7029	711-7045	711-7057
PHILIPS	5 ft	70W	1"	25	20000h	A	T8	377-076	792-3600	377-587	
SYLVANIA	6 ft	70W	1"	25	20000h	A	T8	711-7013	711-7010	711-7017	711-7026



# Special Application Tubes



	Length	Wattage	Pack	Lamp Size	Colour Description	Temp	Standard	Shatterproof
1	6"	4W	1	T5 (5/8")	Black light blue	n/a	497-628	
1	9"	6W	1	T5 (5/8")	Black light blue	n/a	497-634	
1	1 ft	8W	1	T5 (5/8")	Black light blue	n/a	497-640	
2	1 ft	8W	1	T5 (5/8")	Insect killer	n/a	639-1829	
2+3	1.5 ft	15W	1	T5 (5/8")	Insect killer	n/a	639-1835	715-7954
2+3	2 ft	18W	1	T8 (1")	Insect killer	n/a	700-4563	715-7958
3	3.8 ft	28W	20	T5 (5/8")	Warm white	3000		715-7923
3	3.8 ft	28W	20	T5 (5/8")	Cool white	4000		715-7926
3	4.8 ft	35W	20	T5 (5/8")	Warm white	3000		715-7920
3	4.8 ft	35W	20	T5 (5/8")	Cool white	4000		715-7939
3	4.8 ft	49W	20	T5 (5/8")	Warm white	3000		715-7932
3	4.8 ft	49W	20	T5 (5/8")	Cool white	4000		715-7936
3	3.8 ft	54W	20	T5 (5/8")	Cool white	4000		715-7948
3	2 ft	18W	25	T8 (1")	Cool white	4000		715-7881
3	2 ft	18W	10	T8 (1")	Daylight	6500		715-7885
3	2 ft	18W	25	T8 (1")	Warm white	3000		715-7888
4	2 ft	18W	10	T8 (1")	Colour matching	4000	377-9670	
4	4 ft	32W	25	T8 (1")	ECO cool white	4000	521-548	
4	4 ft	32W	25	T8 (1")	ECO warm white	3000	521-538	
3	4 ft	36W	25	T8 (1")	Cool white	4000		715-7897
3	4 ft	36W	10	T8 (1")	Daylight	6500		715-7891
3	4 ft	36W	25	T8 (1")	Warm white	3000		715-7894
4	4 ft	36W	25	T8 (1")	Colour matching	4000	377-9686	
4	5 ft	51W	25	T8 (1")	ECO cool white	4000	521-582	
3	5 ft	58W	25	T8 (1")	Cool white	4000		715-7904
3	5 ft	58W	10	T8 (1")	Daylight	6500		715-7908
4	5 ft	58W	25	T8 (1")	Warm white	3000		
3	5 ft	58W	25	T8 (1")	Colour matching	4000	377-9692	
3	6 ft	70W	10	T8 (1")	Cool white	4000		715-7910
3	6 ft	70W	10	T8 (1")	White	3000		715-7917
3	6 ft	70W	10	T8 (1")	Daylight	6500		715-7914
5	8" dia	22W	1	T8 (1")	Insect killer	n/a	639-1891	548-195
6	Tight U	25W	1	T8 (1")	Insect killer	n/a		548-206

# Compact Fluorescent Lamps



Brand	Hoops	Image	Wattage	Type	Lamp Life	Energy Rating	Pack Size	No Pins			
								Ignitor	External	External	External
Colour Description		Warm White		Warm White		White		Cool White			
Colour Temperature		2700K		3000K		3500K		4000K			
Colour Reference		827		830		835		840			
PHILIPS	2	7	10W	C or D	13000h	A	1				407-5654
SYLVANIA	2	7	10W	C or D	10000h	A	10				711-7354
PHILIPS	2	7	13W	C or D	13000h	A	1	570-751	702-5328		407-5660
SYLVANIA	2	7	13W	C or D	12000h	A	10		711-7271		711-7287
PHILIPS	2	7	18W	C or D	13000h	A	1	570-767			407-5676
GE	2	7	18W	C or D	10000h	A	1			819-292	
SYLVANIA	2	7	18W	C or D	12000h	A	10		711-7275		711-7281
PHILIPS	2	7	26W	C or D	13000h	A	1	570-773	702-5330		407-5698
GE	2	7	26W	C or D	12000h	A	1		786-3312	819-315	786-3319
SYLVANIA	2	7	26W	C or D	12000h	A	10		711-7284		711-7290
PHILIPS	1	8	18W	L	10000h	A	1		570-543		570-587
GE	1	8	18W	L	10000h	A	1	819-113			
SYLVANIA	1	8	18W	L	16000h	A	10		811-7733		811-7746
PHILIPS	1	8	24W	L	10000h	A	1				570-593
GE	1	8	24W	L	10000h	A	1	819-129			
SYLVANIA	1	8	24W	L	16000h	A	10		811-7749		811-7737
PHILIPS	1	8	36W	L	10000h	A	1		570-565		570-600
GE	1	8	36W	L	10000h	A	1	819-141	786-3325		786-3316
SYLVANIA	1	8	36W	L	16000h	A	10				848-7610
PHILIPS	1	8	40W	L	10000h	A	1		570-571		570-616
GE	1	8	55W	L	10000h	A	1		407-5705		407-5761
GE	1	9	16W	2D or Q	12000h	A	1	575-879			
SYLVANIA	1	9	16W	2D or Q	10000h	A	10	711-7360		711-7180	711-7199
PHILIPS	1	9	16W	2D or Q	12000h	B	10				662-1439
GE	1	9	28W	2D or Q	10000h	A	1				569-795
SYLVANIA	1	9	28W	2D or Q	10000h	A	10	711-7379		711-7192	711-7196
PHILIPS	1	9	28W	2D or Q	10000h		10	702-5419	662-1432	662-1436	540-482
GE	1	9	38W	2D or Q	15000h	A	1				867-3299
SYLVANIA	1	9	38W	2D or Q	10000h	A	10	711-7372		711-7206	711-7209
PHILIPS	1	9	38W	2D or Q	10000h	B	10		662-1408	377-357	702-5422
GE	1	9	55W	2D or Q	10000h	A	1				865-6364

# Halogen Lamps



			Energy Saving MR16 (GU5.3) 5000h <b>B</b>			Standard MR16 (GU5.3) 4000h <b>C</b>	
Actual Wattage			20W	30W	35W	20W	35W
Equivalent Wattage based on non ES lamp			30W	40W	50W		
Brand	Diameter	Beam Angle					
PHILIPS	35mm	30°				284-2828	284-2840
	50mm	8°	377-151	377-470	377-476		
	50mm	24°		376-792			
	50mm	36°	377-458	376-798	377-432		
	50mm	60°		377-442	377-464		

			MR16 (GU5.3) 4000h			GU10 4000h
Wattage			20W	35W	50W	35W
Brand	Diameter	Beam Angle				
GE	50mm	18°			233-358 <b>C</b>	
	50mm	36°	233-320 <b>C</b>	818-8209 <b>B</b>	815-8835 <b>C</b>	665-5085 <b>D</b>
	50mm	60°			233-370 <b>B</b>	

			MR16 (GU5.3)	GU10	
Wattage			50W	35W	50W
Brand	Diameter	Beam Angle			
SYLVANIA	50mm	10°	813-8730 (3000h) <b>B</b>		
	50mm	25°		711-7089 (2500h) <b>D</b>	711-7098 (2500h) <b>D</b>
	50mm	38°	813-8734 (2500h) <b>B</b>		
	50mm	50°			725-6269 (4000h) <b>D</b>
	50mm	60°	813-8743 (2500h) <b>B</b>		

			MR16 (GU5.3) 2000h			GU10 2000h	
Wattage			20W	35W	50W	25W	50W
Brand	Diameter	Beam Angle					
nightbridge <small>the mark of quality</small>	50mm	24°			701-3769 <b>B</b>		701-3747 <b>B</b>
	50mm	30°	701-3757 <b>C</b>			701-3753 <b>B</b>	
	50mm	38°	701-3775 <b>B</b>	701-3788 <b>B</b>	701-3763 <b>C</b>		
	50mm	40°					701-3750 <b>C</b>
	50mm	60°			701-3772 <b>C</b>		

Halogen Capsule Lamps <b>C</b>						
Brand	Image	Base	Voltage	10W	20W	35W
OSRAM		G4	6V	157-6974	157-7034	
		G4	12V	157-6980	743-858	
PHILIPS		G4	24V		743-842	
		GY6.35	12V		544-345	315-0013

Halogen Capsule Lamps <b>C</b>						
Brand	Image	Base	Voltage	50W	75W	100W
OSRAM		GY6.35	12V	743-864	743-870	376-988
		GY6.35	24V	157-7012		



Energy Saving Halogen capsules <b>B</b>						
Actual Wattage			25W	35W	50W	65W
Equivalent Wattage			35W	50W	75W	90W
Brand	Base	Voltage				
OSRAM	GY6.35	12V	547-439	547-449	547-445	547-455



Linear Halogen Lamps						
Actual Wattage			80W	120W	230W	400W
Equivalent Wattage			100W	150W	300W	500W
Brand	Voltage					
OSRAM	240V		694-8879 <b>D</b>	694-8872 <b>D</b>	694-8888 <b>C</b>	694-8882 <b>C</b>



Linear Halogen Lamps						
Actual Wattage			120W	230W	400W	
Equivalent Wattage			150W	300W	500W	
Brand	Voltage					
SYLVANIA	240V		789-9765 <b>D</b>	711-7108 <b>C</b>	711-7102 <b>C</b>	
				300W	500W	
	Standard 110V			711-7105	711-7095	

# HID Lamps




Brand	Images	Lamp Type	Base	Colour Temperature	Wattage				
					70W	100W	250W	400W	
PHILIPS	1	CDM Ceramic metal halide	CDM-T Elite	G8.5	3000	377-268 A+			
	3	White SON	SDW-T	PG12-1	2500		376-994 B		
	4	Metal halide upgrade for SON & Mercury	HPI PLUS	E40	4500			362-0663 A	362-0679 A+
	5	Metal halide upgrade for SON & Mercury	HPI-T PLUS	E40	4500				467-5068 A+
Brand	Images	Lamp Type	Base	Colour Temperature	Wattage				
					70W		250W	400W	
OSRAM	6	Double ended metal halide	MHN-TD	FC2	4200				182-6932 A+
	5	Metal halide upgrade for SON & Mercury	HQI-T	E40	5200			743-460 A	305-6882 A
	4	Metal halide upgrade for SON & Mercury	HQI-E	E40	5200			743-448 A	743-454 A
	4	Sodium	SON-E	E40	2000			719-3691 A+	719-3695 A++
	5	Sodium	SON-T	E27	2000	719-3708 A+			
	5	Sodium	SON-T	E40	2000			719-3714 A+	719-3718 A++
Brand	Images	Lamp Type	Base	Colour Temperature	Wattage				
					35W		70W	150W	
GE	7	CMH Ceramic metal halide	CMH-T	G12	3000 /930	748-1257 A+		748-1260 A+	
	1	CMH Ceramic metal halide	CMH-TC	G8.5	3000	780-6397 A+		780-6404 A+	
	7	CMH Ceramic metal halide	CMH-T	G12	3000 /830	786-3246 A+			786-3243 A+
	1	CMH Ceramic metal halide	CMH-TC	G8.5	3000			786-9483 A+	
	2	CMH Ceramic metal halide	CMH-TD	RX7s	3000			786-3252 A+	782-3289 A+

# Ballast & Starters

Compact fluorescent			Magnetic	Electronic (4 pin only)	
No of hoops	Wattage	Type	Single	Single	Twin
1	5W	S	793-4672		
1	7W	S	793-4672	721-0841	
1	9W	S	793-4672		
1	11W	S	793-4672		
2	10W	C or D	793-4685		775-4007
2	13W	C or D	793-4685		775-4007
2	18W	C or D	793-4688		775-4000
2	26W	C or D	793-4688	546-3002	546-3018
3	13W	T	793-4685		
3	18W	T	793-4688		
3	26W	T	793-4688	546-3002	546-3018
3	32W	T		546-3002	546-3018
3	42W	T		546-3002	546-3018
1	18W	L	793-4688		546-3018
1	24W	L			546-3018
1	36W	L	793-8700	494-6613	494-6657
1	40W	L	793-8700	494-6629	494-6663
1	55W	L		494-6641	494-6679
1	16W	2D or Q	793-4679		
1	21W	2D or Q	793-4688		
1	28W	2D or Q	793-4688	440-9631	
1	38W	2D or Q	793-8700	440-9647	

HID Lamps: SON & Metal Halide				
Wattage	Magnetic		Electronic For CDM Lamps	
	Ballast	Ignitor	Standard	Independent
35W			544-339	544-351
50W		667-7259		
70W	667-7246	667-7259	544-355	544-349
100W	667-7249			
150W	667-7243		544-361	
250W	667-7252			
400W	784-0515			


HID Lamps: SOX				
Wattage	Ballast	Ignitor		
18W		312-3049		
35W	312-3027	312-3049		
55W	312-3027	312-3055		

	Linear Fluorescent - Magnetic						
	Length	Length	Wattage	Diameter	Lamp Size	Single	Twin
	6"	150mm	4W	5/8"	T5	793-4676	793-4676
	9"	225mm	6W	5/8"	T5	793-4676	793-4685
	12"	300mm	8W	5/8"	T5	793-4676	
	21"	530mm	13W	5/8"	T5	793-4685	
	1.5 ft	450mm	15W	1"	T8	793-4679	
	2 ft	600mm	18W	1"	T8	793-4688	793-8700
	4 ft	1200mm	36W	1"	T8	793-8700	
	5 ft	1500mm	58W	1"	T8	793-4691	

Linear Fluorescent - Electronic Fixed Output								
Length	Length	Wattage	Diameter	Lamp Size	Single	Twin	3 way	4 way
n/a	549mm	14W	5/8"	T5	781-2923	781-2945	781-2967	781-2967
n/a	849mm	21W	5/8"	T5	781-2923	781-2945		
n/a	549mm	24W	5/8"	T5	781-2926	781-2948	781-2960	781-2960
n/a	1149mm	28W	5/8"	T5	781-2923	781-2945		
n/a	1449mm	35W	5/8"	T5	781-2923	781-2945		
n/a	849mm	39W	5/8"	T5	781-2920	781-2942		
2 ft	600mm	18W	1"	T8	775-3972	775-3988	775-3994	424-0224
4 ft	1200mm	36W	1"	T8	775-3981	775-3997		
5 ft	1500mm	58W	1"	T8	775-3984	775-3990		
6 ft	1800mm	70W	1"	T8	486-6422	478-3888		

Linear Fluorescent - Electronic Switch Dimming							
Length	Length	Wattage	Diameter	Lamp Size	Twin	3 way	4 way
2 ft	600 mm	18W	1"	T8		440-9596	440-9603
4 ft	1200 mm	36W	1"	T8	789-7930		
5 ft	1500 mm	58W	1"	T8	789-7933		

Linear Fluorescent - Electronic 1-10V Dimming						
Length	Length	Wattage	Diameter	Lamp Size	Single	Twin
2 ft	600 mm	18W	1"	T8	243-2847	243-2881
4 ft	1200 mm	36W	1"	T8	243-2869	243-2897
5 ft	1500 mm	58W	1"	T8	243-2875	243-2904

	Starters			
	Product	Part No.	Description	Part No.
	Glow Starter	809-223	Electronic Starter	809-346
	Series Glow Starter	106-537	Series Electronic Starter	809-352

# Lampholders



Brand	Image	RS Stocknumber	Base	Material	Pack Quantity
	3	293-1108	E14	Plastic	5
	3	220-3065	E14	Resin	10
	3	220-3071	base ring for E14	Resin	10
	1	171-073	E27	Plastic	5
	1	704-8406	E27	Plastic	5
	1	704-8412	E27	Plastic	5
	1	220-3087	E27	Resin	10
	1	220-3093	base ring for E27	Resin	10
	2	482-3728	E27	Porcelain	5
	2	511-9351	B22	Porcelain	1
	2	511-6138	E27	Porcelain	1
	4	829-3487	E40	Porcelain	1
S Lilley & Son	5	293-5920	B22	Brass	1
	6	668-3291	GZ10 / GU10	Ceramic	5
	6	668-3308	GZ10 / GU10	Plastic	5
	7	171-045	GU5,3 (MR16)	Ceramic	5
	8	668-3294	G5	Plastic	10
	9	293-1209	G12	Ceramic	1
	10	561-943	G13	Plastic	10
	11	668-3314	G24 / GX24 (10/13W)	Plastic	1
	11	668-3317	G24 / GX24 (18W)	Plastic	1
	12	171-001	R7s	Porcelain / Copper	1

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