

SYLVANIA

LAMPS CATALOGUE
2013



SYLVANIA

| | | |
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Havells-Sylvania

We are Havells-Sylvania, one of the world's major lighting groups. For more than a century we have improved the way people live by enabling them to enjoy better lighting in a more sustainable manner. Today, we continue to build on our exceptional reputation as an innovator and creator of high-efficiency, energy-saving, light sources and luminaires, by providing full spectrum lighting solutions tailored to your individual and local needs. Our three main brands- Concord, Lumiance and Sylvania – concentrate strengths in research and development, LED lighting technology, product design, engineering and production, plus in-depth, honest application expertise, on their specialised areas of activity: high-end architectural, decorative and functional professional lighting.

Our recent acquisition, in 2007, by Havells India Ltd gives us the financial strength and resources to significantly expand and improve the business. The group, which has 94 branches and representative offices and 8,000 staff in more than 50 countries, has grown rapidly to become a US 1.3 billion company and currently operates 18 manufacturing plants in India, Europe, Latin America and Africa, producing globally acclaimed products such as switchgear, cables, wires and lighting.



QRG Towers Noida, India

Concord Elegant Innovation

The Concord brand is part of the Havells-Sylvania Group and is one of Europe's most respected architectural lighting brands for retail and museum lighting. With a strong manufacturing base in the UK, Concord is renowned for its strong design ethos, high technical performance and aesthetic form. Concord focuses on bringing lighting solutions to meet the needs of architects and lighting designers.

www.concord-lighting.com

Lumiance Beautifully Functional

Lumiance offers a wide range of contemporary designed luminaires, intended for a variety of applications such as shops, offices, hotels, and restaurants.

www.lumiance-lighting.com

SYLVANIA Without Compromise

Sylvania Luminaires offers a comprehensive portfolio of attractive and competitively priced luminaires for Industrial and Commercial applications, such as offices, education, residential and leisure.

www.sylvania-luminaires.com

SYLVANIA Without Compromise

Sylvania Lamps is one of the world's largest manufacturers of artificial light sources. It has a broad product offering, from halogen and low-energy lamps for the consumer market, to fluorescent lamps, HID lamps and various special products for the professional specifier.

www.sylvania-lamps.com





The award winning HI-SPOT RefLED ES50 GU10 is manufactured in our Tienen factory

Made In Europe

Havells Sylvania is proud of their strong manufacturing heritage in Europe. For over 100 years, group brands: Concord, Lumiance and Sylvania have manufactured lamps and luminaires in Belgium, Germany, France and the UK. These centres of excellence are our foundation, ensuring innovative design, development and production are aligned with the ever changing requirements of this dynamic marketplace

- **Newhaven (UK):** Concord and Lumiance luminaires
- **Saint Etienne (France):** Lumiance and Sylvania luminaires
- **Erlangen (Germany):** Sylvania Lamps
- **Tienen (Belgium):** Sylvania Lamps



Tienen Factory, Belgium



reddot design award
winner 2010

| | |
|-----------------------|--------------------------|
| Stiftung Warentest | GUT (1,9) |
| test | Sylvania ToLEDo Kerze |
| + | Im Test: 8 LED-Lampen |
| | Ausgabe 09/2012 |



WINNER
2011



The Lighting Association



At Havells-Sylvania we pride ourselves on building the highest quality and most technologically advanced products within lighting. Our customers range from architectural practices, lighting designers and electrical contractors to end users. To this end our products have won many accolades and awards from the media, some of which are shown here.

| 2010 | 2011 | 2012 | 2013 |
|---|--|--|--|
| Concord Stadium LED – Winner Lighting Design Awards | Concord Beacon Muse LED – Winner Lighting Industry Association | Lumiance Inverto - Finalist Electrical Industry Awards | Concord Glace – Finalist Lighting Design Awards |
| Concord Stadium LED – Winner Red Dot Design | Concord Beacon Muse LED – Winner LUX magazine | Concord LED Performance Cone – Finalist Lighting Design Awards | Concord Beacon Projector – Finalist Lighting Design Awards |
| | Concord Beacon Muse – Winner Lighting Design Awards | Sylvania Hi-Spot RefLED ES50 – Highly Commended Lighting Design Awards | |
| | Sylvania Superia CMI – Finalist Lighting Industry Awards | | |

Exploring the catalogue

All pages follow a similar format, making it easier for you to identify the information you require quickly. Generally, the page format will include the information detailed below:

- 1 **Colour tag**
- 2 **Brand**
Sylvania
- 3 **Product name**
- 4 **Product Image**
- 5 **Product features**
- 6 **Product icons / symbols**
Please refer to Icons & symbols guide at the back of the catalogue for more information
- 7 **Ordering guide**
- 8 **Photometric data and related information**
- 9 **Dimensions (mm) and cap type**

1

3

2

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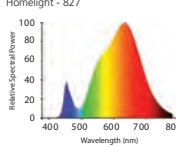


- Up to 85% energy saving compared to halogen lamps
- 7.5W - first true 50W halogen retrofit
- 100% retrofit - IEC standard dimensions
- Beam angle of 25° and 40°
- 47lm/W efficacy
- High light output: comparable to 50W halogen with 350lm for all colour versions
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- Average rated life 25,000 hrs

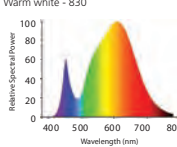
Hi-Spot® RefLED ES50 GU10 350lm

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------|---|----------|----------|----------------|------|-----------------|--------------------|--------------------------|-------------|
| 50W halogen equivalent | | | | | | | | | |
| 0026746 | RefLED ES50 7.5 W 350 LM 2700K 25° NON-DIM SL | 7.5 | 220-240 | 25 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026748 | RefLED ES50 7.5W 350 LM 2700K 40° NON-DIM SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026747 | RefLED ES50 7.5W 350 LM 3000K 25° NON-DIM SL | 7.5 | 220-240 | 25 | GU10 | 3000 | 350 | 25000 | 15 |
| 0026749 | RefLED ES50 7.5W 350 LM 3000K 40° NON-DIM SL | 7.5 | 220-240 | 40 | GU10 | 3000 | 350 | 25000 | 15 |
| 0026770 | RefLED ES50 7.5W 350 LM 4000K 25° NON-DIM SL | 7.5 | 220-240 | 25 | GU10 | 4000 | 350 | 25000 | 15 |
| 0026771 | RefLED ES50 7.5W 350 LM 4000K 40° NON-DIM SL | 7.5 | 220-240 | 40 | GU10 | 4000 | 350 | 25000 | 15 |
| 0026760 | RefLED ES50 350LM 2700K 40° Orange base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026761 | RefLED ES50 350LM 2700K 40° Red base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026762 | RefLED ES50 350LM 2700K 40° Blue base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026763 | RefLED ES50 350LM 2700K 40° White base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |

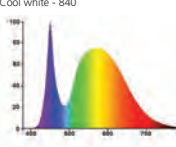
Homelight - 827



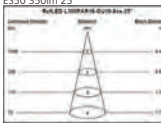
Warm white - 830



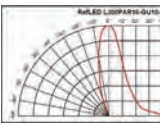
Cool white - 840

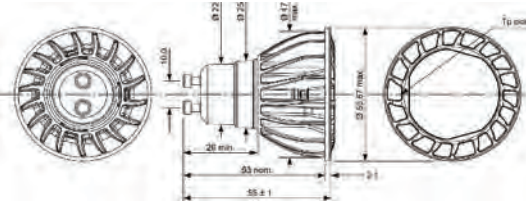


ES50 350lm 25°



ES50 350lm 40°





Dimensions (mm)

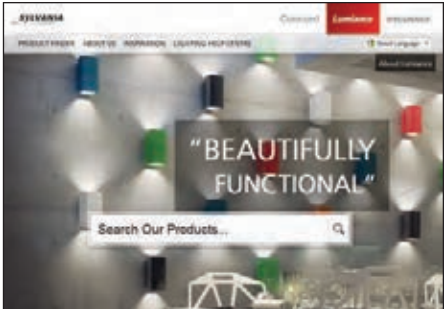
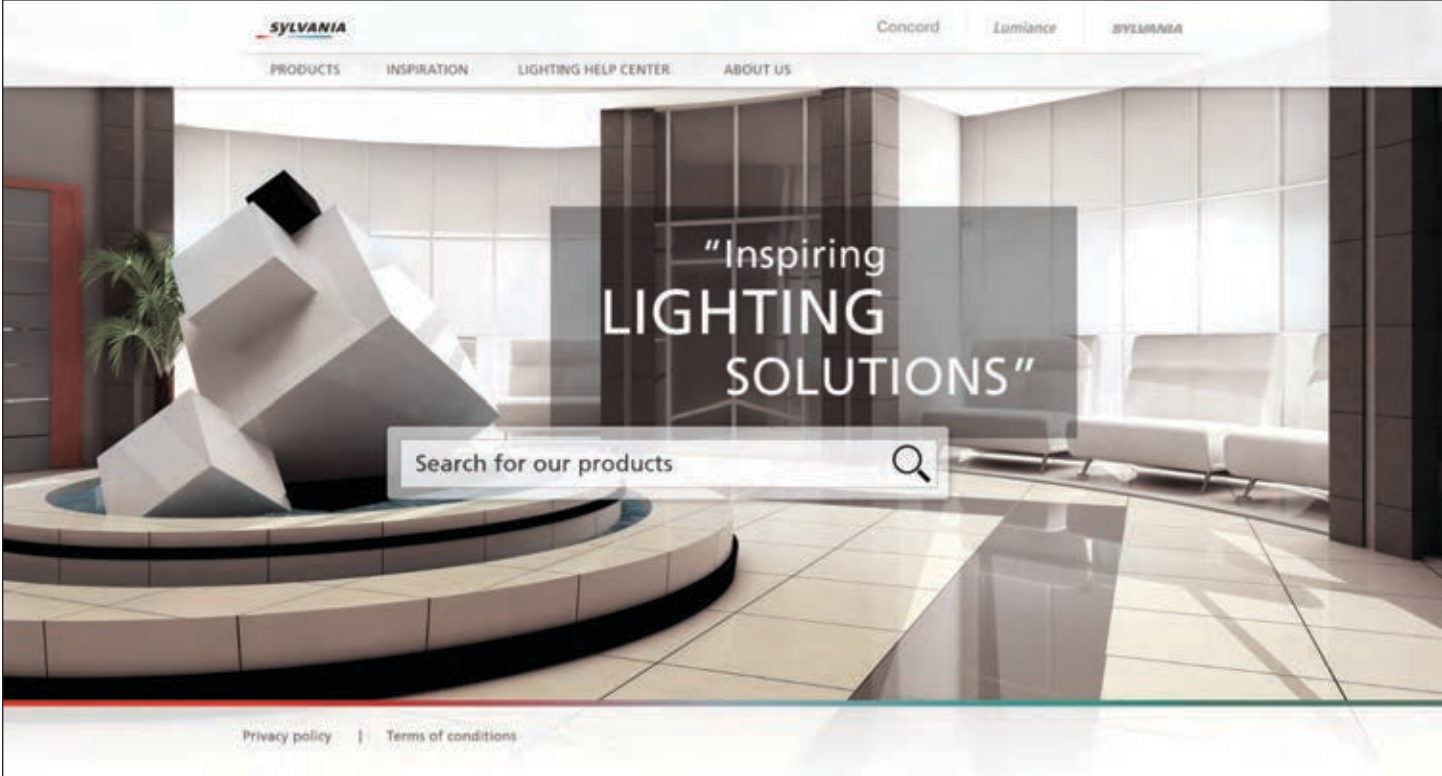
Our Brand New Website

Havells-Sylvania is pleased to announce the launch of our new website, designed with a modern, refreshed look and feel and offering an unrivalled user experience. The website has been updated with all latest product and service information. You will be able to easily browse and search for products to get access to product images, installation information, technical data sheets and photometric files.

The main priority was to build a user friendly site that can be accessed from anywhere. Therefore it is compatible with all modern mobile devices enabling the users to find products and product information on the go.

We hope you will enjoy using our new website and that you will use see it as a useful tool for your business.

To view the new website and product finder, visit: www.havells-sylvania.com





11 ToLEDo
Non-Directional



14 Hi-Spot® RefLED



22 RefLED LV SA111



23 RefLED 550lm
AR111



24 ToLEDo Hi-Pin /
Pygmy



26 Microlynx High
Performance



27 ToLEDo Tubes



LED Lamps

Our technology has reached the stage where you can confidently replace old technology lamps with the latest LED retrofit lamps for general lighting purposes. Sylvania LED lamps will deliver satisfied customers by replacing incandescent and halogen lamps with LED, keeping the light level and comfort they are used to, but achieving huge energy savings.

We manufacture LED lamps at Sylvania's state-of-the-art facilities in Germany and Belgium, ensuring European craftsmanship. The original halogen GU10 lamp was invented and first produced in our Tienen factory. Our LED lamps share one unique Sylvania design, building on our heritage with the spiralled reflectors used on halogen lamps. Our performance is best in class, making it easier to make the best choice on the market and take no risks on safety or quality. LED lamps contain no mercury, no lead, and achieve up to 90% energy savings, making them very environmentally friendly.



HI-SPOT REFLED ES50 GU10

We invented the original halogen GU10 at our factory in Belgium over 15 years ago. Today we continue to be at the forefront of lamp innovation with breakthroughs in LED. Products include the highly commended HI-SPOT RefLED ES50 GU10 350lm, the first LED retrofit with the power to directly replace a 50W halogen.



HI-SPOT REFLED MR16

A direct replacement for the popular MR16 halogen lamp. Available in 350lm and 450lm, they provide replacement options for both the 35W and 50W halogen versions.

WARRANTY

All lamps have a standard 2 year warranty but some LED lamps have an extended warranty of 3 and 5 years which is highlighted on each page



ToLEDo GLS Satin



ToLEDo GLS Clear

- Up to 80% energy saving compared to incandescent lamps
- Instant light
- 100% retrofit - Same dimensions as incandescent equivalent
- Suitable for replacement of up to 60W incandescent lamps
- Available in Homelight (2700K)
- Good colour rendering (CRI=80)
- Average rated life: 15000 to 35000 hrs

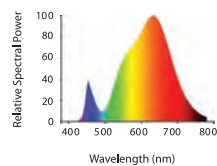


ToLEDo GLS

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--|--------------------------------|----------|----------|-----|-------------|-----------------|--------------------|--------------------------|-------------|
| Up to 25W incandescent equivalent | | | | | | | | | |
| 0026150 | ToLEDo GLS A60 5W Clear E27 SL | 5 | 100-250 | E27 | Clear | 2700 | 200 | 15000 | 10 |
| 0026512 | ToLEDo GLS 5W E27 SL | 5 | 200-250 | E27 | Satin | 2700 | 250 | 15000 | 6 |
| 0026717 | ToLEDo GLS 5W B22 SL | 5 | 200-250 | B22 | Satin | 2700 | 250 | 25000 | 6 |
| 40W incandescent equivalent | | | | | | | | | |
| 0026680 | ToLEDo GLS 7.5W E27 SL | 7.5 | 200-250 | E27 | Satin | 2700 | 470 | 15000 | 6 |
| 0026719 | ToLEDo GLS 7.5W B22 SL | 7.5 | 200-250 | B22 | Satin | 2700 | 470 | 25000 | 6 |
| 0026290* | ToLEDo GLS Dimmable 10W E27 SL | 10 | 220-240 | E27 | Satin | 2700 | 470 | 35000 | 10 |
| 60W incandescent equivalent | | | | | | | | | |
| 0026737 | ToLEDo GLS 10.5W E27 SL | 10.5 | 220-240 | E27 | Satin | 2700 | 806 | 15000 | 6 |
| 0026740 | ToLEDo GLS 10.5W B22 SL | 10.5 | 220-240 | E27 | Satin | 2700 | 806 | 15000 | 6 |

* Only products with an asterisk benefit from longer warranty

LED-Homelight 827



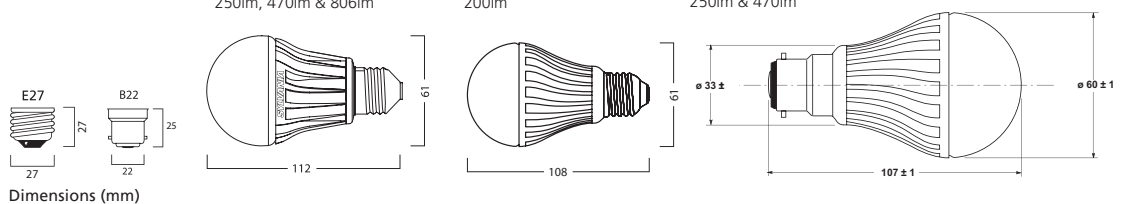
LED-Homelight 827



ToLEDo GLS Satin, E27
250lm, 470lm & 806lm

ToLEDo GLS Clear, E27
200lm

ToLEDo GLS Satin, B22
250lm & 470lm





ToLEDo Ball Satin

- Up to 80% energy saving compared to incandescent lamps
- Instant light
- 100% retrofit - Same dimensions as incandescent equivalent
- Suitable for replacement of up to 40W incandescent lamps
- Available in Standard Homelight (2700K), Homelight (2600K) and Homelight Deluxe (2500K)
- Good colour rendering (CRI 80+)
- Average rated life 15,000 hrs (except 0025128/0026522 - 25,000 hrs)



ToLEDo Ball Clear



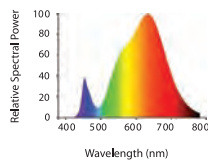
ToLEDo Globe

ToLEDo Ball/Globe

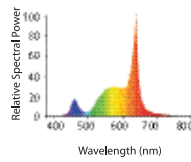
| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------------|--------------------------------------|----------|----------|-----|-------------|-----------------|--------------------|--------------------------|-------------|
| ToLEDo Ball | | | | | | | | | |
| 0025128* | 7 Colour LED Ball E27 Bls Changeable | 0.7 | 220-240 | E27 | Satin | NA | 5 | 25000 | 10 |
| 0026307 | ToLEDo Home Ball 1,5W CI E14 BL | 1.5 | 220-240 | E14 | Clear | 2700 | 60 | 15000 | 10 |
| 0026309 | ToLEDo Home Ball 1,5W CI E27 BL | 1.5 | 220-240 | E27 | Clear | 2700 | 60 | 15000 | 10 |
| 0026162 | ToLEDo Ball 3W Clear E14 SL | 3 | 100-250 | E14 | Clear | 2700 | 90 | 15000 | 10 |
| 0026186 | ToLEDo Ball 3W Clear E27 SL | 3 | 100-250 | E27 | Clear | 2700 | 90 | 15000 | 10 |
| 0026164 | ToLEDo Ball Satin 2,5W E14 SL | 2.5 | 220-240 | E14 | Satin | 2600 | 136 | 15000 | 10 |
| 0026178 | ToLEDo Ball Satin 2,5W E27 SL | 2.5 | 220-240 | E27 | Satin | 2600 | 136 | 15000 | 10 |
| 0026297 | ToLEDo Ball 3W Satin E14 SL | 3 | 220-240 | E14 | Satin | 2500 | 250 | 15000 | 10 |
| 0026299 | ToLEDo Ball 3W Satin E27 SL | 3 | 220-240 | E27 | Satin | 2500 | 250 | 15000 | 10 |
| ToLEDo Globe | | | | | | | | | |
| 0026323* | ToLEDo Globe G60 3W Satin E27 SL | 3 | 220-240 | E27 | G60 | 2500 | 250 | 15000 | 10 |
| 0026910 | ToLEDo Globe G60 5W 470LM SL | 5 | 220-240 | E27 | G60 | 2500 | 470 | 15000 | 10 |
| 0026522* | ToLEDo Globe G95 9W SL | 9 | 220-240 | E27 | G95 | 2700 | 470 | 25000 | 6 |

* Only products with an asterisk benefit from longer warranty

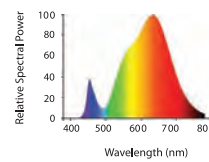
LED-Homelight 826



LED-Homelight Deluxe 925



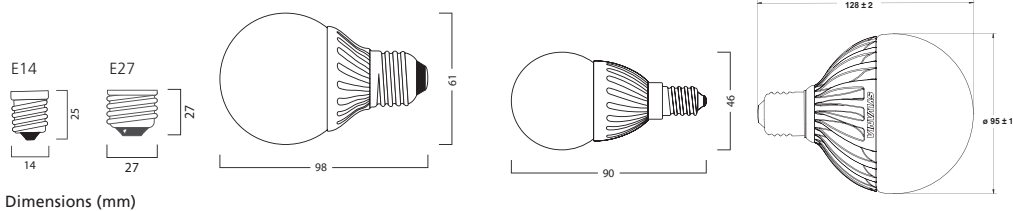
LED-Homelight 827



Toledo Globe G60

ToLEDo Ball

Toledo Globe G95





ToLEDo Bent-tip Candle Satin



ToLEDo Bent-tip Candle Clear



ToLEDo Candle Satin



ToLEDo Candle Clear

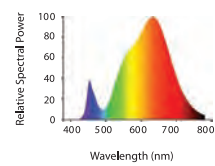
- Up to 88% energy saving compared to incandescent lamps
- Instant light
- 100% retrofit - Same dimensions as incandescent equivalent
- Suitable for replacement of up to 25W incandescent lamps
- Uniform light distribution
- Available in Standard Homelight (2700K), Homelight (2600K) and Homelight Deluxe (2500K)
- Good colour rendering (CRI 80+)
- Average rated life 15,000 hrs



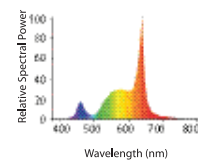
ToLEDo Candle

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|---|----------|----------|-----|-------------|-----------------|--------------------|--------------------------|-------------|
| 0026304 | ToLEDo Home Candle 1,5W CI E14 B | 1.5 | 220-240 | E14 | Clear | 2700 | 60 | 15000 | 10 |
| 0026326 | ToLEDo Home Twisted Candle 1,5W C E14 B | 1.5 | 220-240 | E14 | Clear | 2700 | 60 | 15000 | 10 |
| 0026701 | ToLEDo Home Bent Tip 1,5W E14 B | 1.5 | 220-240 | E14 | Clear | 2700 | 60 | 15000 | 10 |
| 0026154 | ToLEDo Candle 3W Clear E14 SI | 3 | 100-250 | E14 | Clear | 2700 | 90 | 15000 | 10 |
| 0026158 | ToLEDo Bent Tip 3W CI E14 SI | 3 | 100-250 | E14 | Clear | 2700 | 90 | 15000 | 10 |
| 0026156 | ToLEDo Candle Satin 2,5W E14 SI | 2.5 | 220-240 | E14 | Satin | 2600 | 130 | 15000 | 10 |
| 0026160 | ToLEDo Bent Tip 2,5W Satin E14 SI | 2.5 | 220-240 | E14 | Satin | 2600 | 130 | 15000 | 10 |
| 0026293 | ToLEDo Candle 3W Satin E14 SI | 3 | 220-240 | E14 | Satin | 2500 | 250 | 15000 | 10 |
| 0026295 | ToLEDo Bent Tip 3W Satin E14 SI | 3 | 220-240 | E14 | Satin | 2500 | 250 | 15000 | 10 |
| 0026299 | ToLEDo Candle 3W Satin Dimmable | 3 | 220-240 | E14 | Satin | 2500 | 250 | 15000 | 10 |

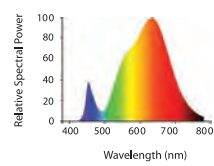
LED-Homelight 826



LED-Homelight Deluxe 925

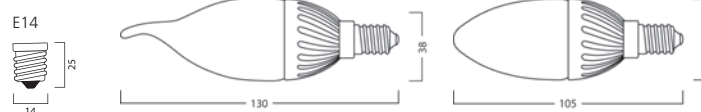


LED-Homelight 827



ToLEDo Bent-tip Candle

ToLEDo candle



Dimensions (mm)

Hi-Spot® RefLED Home ES50 GU10 150lm Dimmable



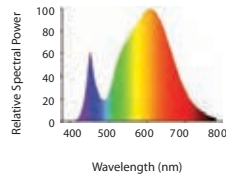
- Up to 80% energy saving compared to incandescent lamps
- Dimmable with most leading edge dimmers
- 30° 4.5W - low energy consumption
- Suitable for indoor application in open/ventilated luminaires
- Suitable for retrofit replacement of mains voltage 25W halogen lamps (220-240V)
- Available in Warm White (3000K)
- High power factor of 0.9
- Good colour rendering (CRI=80)
- Average rated life 25,000 hrs



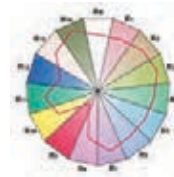
Hi-Spot® RefLED Home ES50 GU10 Dimmable

| Code | Description | Watt (W) | Volt (V) | Cap | Beam (°) | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------|-----------------------------------|----------|----------|------|----------|-----------------|--------------------|--------------------------|-------------|
| 25W halogen equivalent | | | | | | | | | |
| 0026490 | RefLED Home Dim.Es50 4.5W Gu10 SL | 4.5 | 220-240 | GU10 | 30° | 3000 | 150 | 25000 | 10 |

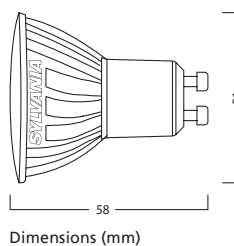
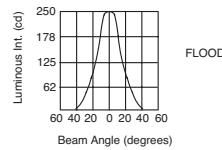
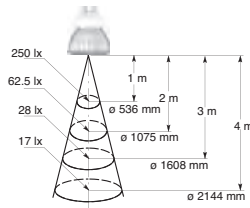
LED-Warm White 830



LED-Warm White 830



ES50 30° - 830



Dimensions (mm)



- Up to 85% energy saving compared to halogen lamps
- True 35W halogen retrofit
- 100% retrofit - IEC standard dimensions
- Beam angle of 25° and 40°
- 51lm/W efficacy
- High light output: 230lm
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- Average rated life 25,000 hrs



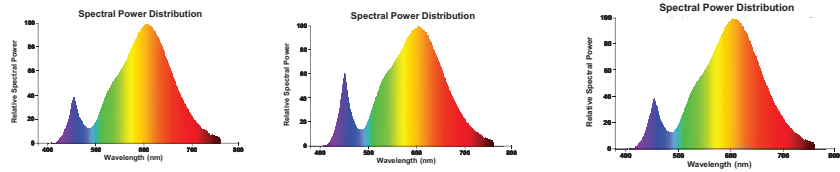
Hi-Spot® RefLED ES50 GU10 230 lm

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------|--------------------------------|----------|----------|----------------|------|-----------------|--------------------|--------------------------|-------------|
| 35W halogen equivalent | | | | | | | | | |
| 0026525 | RefLED ES50 230LM 2700K 40° SL | 4.5 | 220-240 | 40 | GU10 | 2700 | 230 | 25000 | 15 |
| 0026526 | RefLED ES50 230LM 3000K 25° SL | 4.5 | 220-240 | 25 | GU10 | 3000 | 230 | 25000 | 15 |
| 0026528 | RefLED ES50 230LM 3000K 40° SL | 4.5 | 220-240 | 40 | GU10 | 3000 | 230 | 25000 | 15 |
| 0026529 | RefLED ES50 230LM 4000K 25° SL | 4.5 | 220-240 | 25 | GU10 | 4000 | 230 | 25000 | 15 |

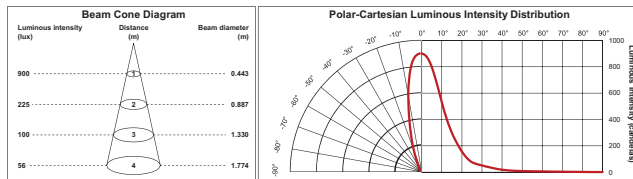
Homelight - 827

Warm White - 830

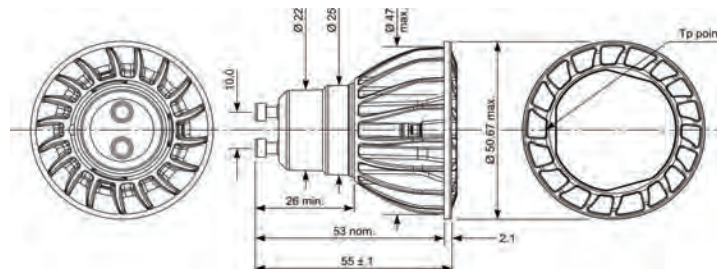
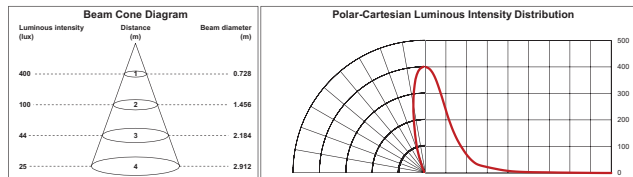
Cool White 840



ES50 230lm 25°



ES50 230lm 40°



Dimensions (mm)



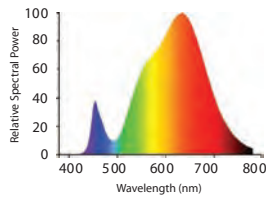
- Up to 85% energy saving compared to halogen lamps
- 7.5W - first true 50W halogen retrofit
- 100% retrofit - IEC standard dimensions
- Beam angle of 25° and 40°
- 47lm/W efficacy
- High light output: comparable to 50W halogen with 350lm for all colour versions
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- Average rated life 25,000 hrs



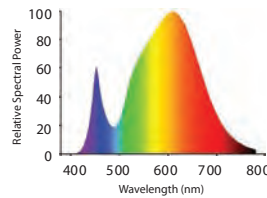
Hi-Spot® RefLED ES50 GU10 350lm

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------|---|----------|----------|----------------|------|-----------------|--------------------|--------------------------|-------------|
| 50W halogen equivalent | | | | | | | | | |
| 0026746 | RefLED ES50 7,5 W 350 LM 2700K 25° NON-DIM SL | 7.5 | 220-240 | 25 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026748 | RefLED ES50 7,5W 350 LM 2700K 40° NON-DIM SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026747 | RefLED ES50 7,5W 350 LM 3000K 25° NON-DIM SL | 7.5 | 220-240 | 25 | GU10 | 3000 | 350 | 25000 | 15 |
| 0026749 | RefLED ES50 7,5W 350 LM 3000K 40° NON-DIM SL | 7.5 | 220-240 | 40 | GU10 | 3000 | 350 | 25000 | 15 |
| 0026770 | RefLED ES50 7,5W 350 LM 4000K 25° NON-DIM SL | 7.5 | 220-240 | 25 | GU10 | 4000 | 350 | 25000 | 15 |
| 0026771 | RefLED ES50 7,5W 350 LM 4000K 40° NON-DIM SL | 7.5 | 220-240 | 40 | GU10 | 4000 | 350 | 25000 | 15 |
| 0026760 | RefLED ES50 350LM 2700K 40° Orange base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026761 | RefLED ES50 350LM 2700K 40° Red base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026762 | RefLED ES50 350LM 2700K 40° Blue base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026763 | RefLED ES50 350LM 2700K 40° White base SL | 7.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |

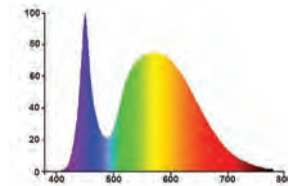
Homelight - 827



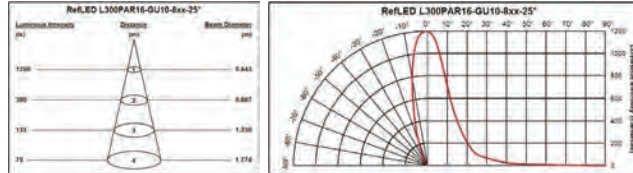
Warm white - 830



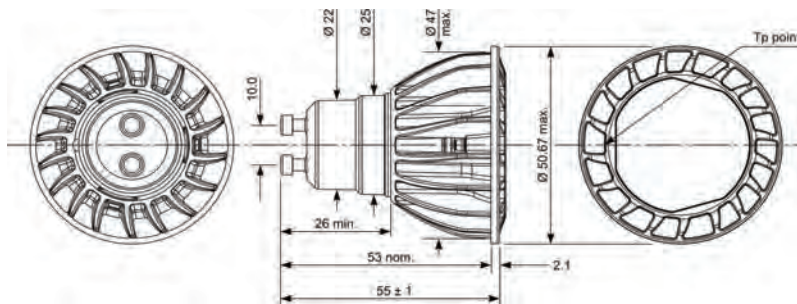
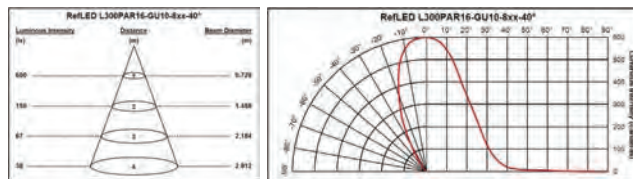
Cool white - 840



ES50 350lm 25°



ES50 350lm 40°



Dimensions (mm)

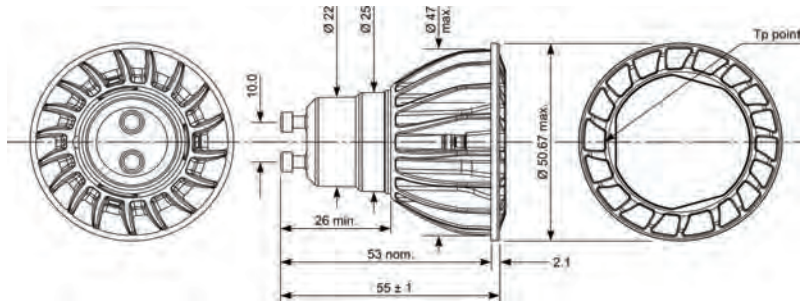
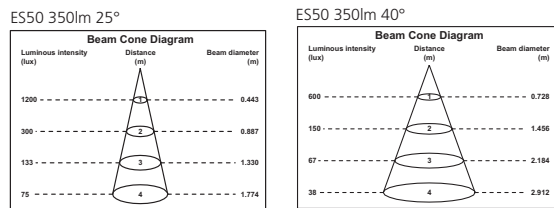
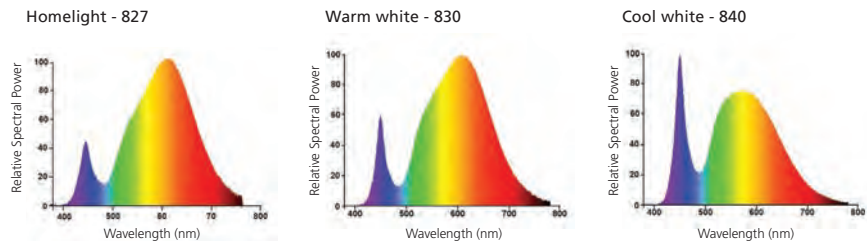


- Up to 90% energy saving compared to halogen lamps
- Dimmable on leading and trailing edge dimmers
- 5.5W - low energy consumption
- Beam angle of 25° and 40°
- 64lm/W efficacy
- High light output: comparable to 50W halogen with 350lm
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- Average rated life 25,000 hrs
- Energy Class A



Hi-Spot® Ref LED ES50 GU10 350lm Dimmable

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---|---------------------------------|----------|----------|----------------|------|-----------------|--------------------|--------------------------|-------------|
| 50W Halogen replacement Dimmable | | | | | | | | | |
| 0026360 | DIM RefLED ES50 350LM 2700K 25° | 5.5 | 220-240 | 25 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026361 | DIM RefLED ES50 350LM 2700K 40° | 5.5 | 220-240 | 40 | GU10 | 2700 | 350 | 25000 | 15 |
| 0026362 | DIM RefLED ES50 350LM 3000K 25° | 5.5 | 220-240 | 25 | GU10 | 3000 | 350 | 25000 | 15 |
| 0026363 | DIM RefLED ES50 350LM 3000K 40° | 5.5 | 220-240 | 40 | GU10 | 3000 | 350 | 25000 | 15 |
| 0026364 | DIM RefLED ES50 350LM 4000K 25° | 5.5 | 220-240 | 25 | GU10 | 4000 | 350 | 25000 | 15 |
| 0026365 | DIM RefLED ES50 350LM 4000K 40° | 5.5 | 220-240 | 40 | GU10 | 4000 | 350 | 25000 | 15 |



Dimensions (mm)



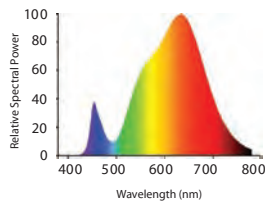
- Up to 85% energy saving compared to halogen lamps
- 7W - first true 63W halogen retrofit
- 100% retrofit - IEC standard dimensions
- Beam angle of 25° and 40°
- 64lm/W high efficacy
- High light output: 450lm
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- Also available in white heat sink and base
- High power factor of 0.8
- Average rated life 25,000 hrs
- Energy Class A



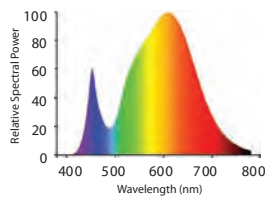
Hi-Spot® RefLED ES50 GU10 450lm

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------------|-----------------------------------|----------|----------|----------------|------|-----------------|--------------------|--------------------------|-------------|
| 63W Halogen replacement | | | | | | | | | |
| 0026308 | RefLED ES50 450LM 2700K 25° | 7 | 230 | 25 | GU10 | 2700 | 450 | 25000 | 15 |
| 0026310 | RefLED ES50 450LM 2700K 40° | 7 | 230 | 40 | GU10 | 2700 | 450 | 25000 | 15 |
| 0026311 | RefLED ES50 450LM 3000K 25° | 7 | 230 | 25 | GU10 | 3000 | 450 | 25000 | 15 |
| 0026312 | RefLED ES50 450LM 3000K 40° | 7 | 230 | 40 | GU10 | 3000 | 450 | 25000 | 15 |
| 0026313 | RefLED ES50 450LM 4000K 25° | 7 | 230 | 25 | GU10 | 4000 | 450 | 25000 | 15 |
| 0026314 | RefLED ES50 450LM 4000K 40° | 7 | 230 | 40 | GU10 | 4000 | 450 | 25000 | 15 |
| 0026319 | RefLED WHITE ES50 450LM 2700K 40° | 7 | 230 | 40 | GU10 | 2700 | 450 | 25000 | 15 |
| 0026320 | RefLED WHITE ES50 450LM 3000K 40° | 7 | 230 | 40 | GU10 | 3000 | 450 | 25000 | 15 |

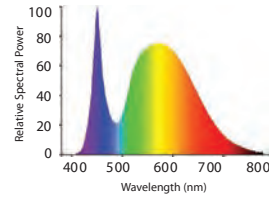
Homelight - 827



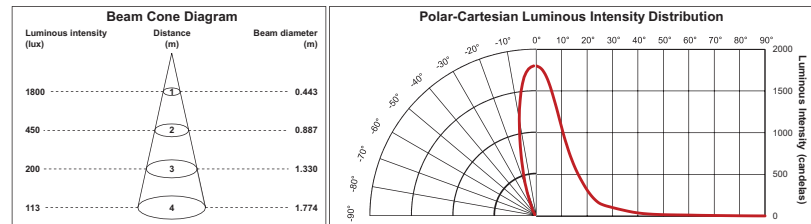
Warm white - 830



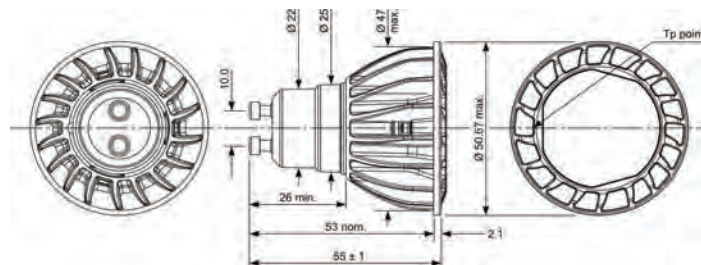
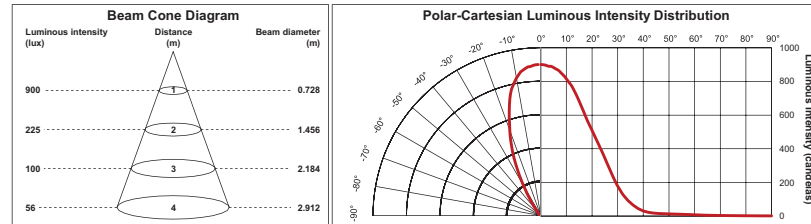
Cool white - 840



ES50 450lm 25°



ES50 450lm 40°



Dimensions (mm)



Hi-Spot RefLED PAR20



Hi-Spot RefLED PAR30

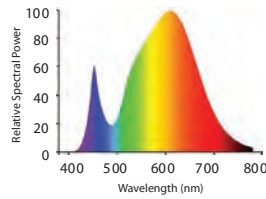
- Up to 80-90% energy saving compared to halogen lamps
- Suitable for retrofit replacement of incandescent and halogen PAR lamps (220-240V)
- Light output matching 50-70W halogen
- Available in Warm White (3000K)
- Good colour rendering (CRI=80)
- Average rated life: 30,000 hrs



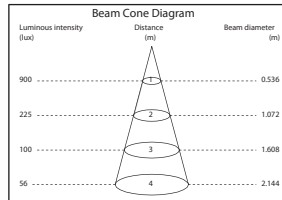
Hi-Spot® RefLED PAR20/30

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------|----------|----------|----------------|-----|-----------------|--------------------|--------------------------|-------------|
| 0126705 | Hi-Spot RefLED PAR20 SL | 5.5 | 220-240 | 30 | E27 | 3000 | 300 | 30000 | 10 |
| 0126707 | Hi-Spot RefLED PAR30 SL | 11 | 220-240 | 25 | E27 | 3000 | 680 | 30000 | 10 |

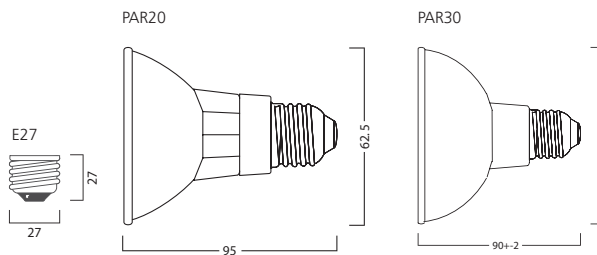
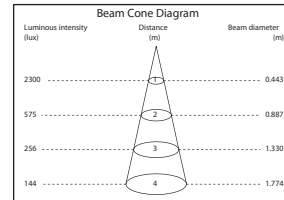
Warm White - 830



PAR20 300lm



PAR30 680lm



Dimensions (mm)

Hi-Spot® RefLED PAR38



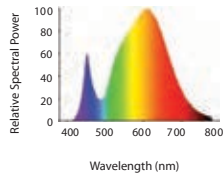
- Up to 90% energy saving compared to halogen lamps
- Weather resistant - suitable for exterior lighting with suitably rated luminaire
- Suitable for retrofit replacement of incandescent and halogen PAR lamps (220-240V)
- Available in Warm White (3000K)
- Good colour rendering (CRI=80)
- Average rated life 30,000 hrs



Hi-Spot® RefLED PAR38

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------|----------|----------|----------------|-----|-----------------|--------------------|--------------------------|-------------|
| 0026500 | Hi Spot RefLED PAR38 SL | 15 | 220-240 | 25 | E27 | 3000 | 750 | 15000 | 10 |
| 0026501 | Hi Spot RefLED PAR38 SL | 10 | 220-240 | 25 | E27 | 3000 | 900 | 30000 | 10 |

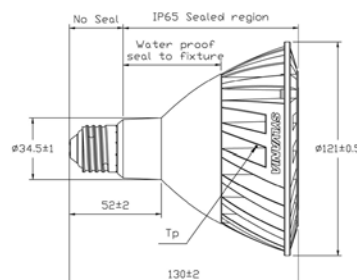
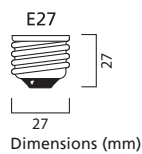
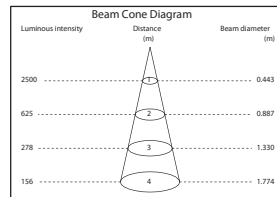
LED-Warm White 830



LED-Warm White 830



RefLED PAR38 25°





Compatible with 12V DC Non-dimmable transformer available Sylvania code 3036290

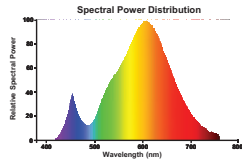
- Up to 85% energy saving compared to halogen lamps
- 100% retrofit - IEC standard dimensions
- Suitable for use in bathrooms when installed in an IP44 rated fixture
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- High power factor of 0.7
- Fully compatible with magnetic transformers and broad compatibility with many electronic transformers
- Without cooling fan for quiet operation
- Driver 12V DC compatible with MR16 LED retrofit lamps
- Dimmable when use on magnetic dimmable transformers
- Average rated life 25,000 hrs



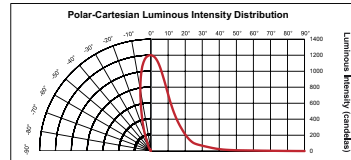
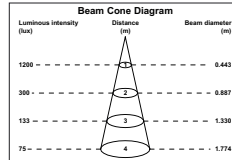
Hi-Spot® RefLED MR16 350lm & 450lm Dimmable

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|--------------------------|----------|----------|----------------|-------|-----------------|--------------------|--------------------------|-------------|
| 0026306 | DIM RefLED MR16 7W 350lm | 7 | 12 | 25 | GU5.3 | 3000 | 350 | 25000 | 15 |
| 0026340 | DIM RefLED MR16 7W 350lm | 7 | 12 | 40 | GU5.3 | 3000 | 350 | 25000 | 15 |
| 0026341 | DIM RefLED MR16 7W 350lm | 7 | 12 | 40 | GU5.3 | 2700 | 350 | 25000 | 15 |
| 0026351 | DIM RefLED MR16 7W 350lm | 7 | 12 | 40 | GU5.3 | 4000 | 350 | 25000 | 15 |
| 0026350 | DIM RefLED MR16 7W 450lm | 7 | 12 | 40 | GU5.3 | 2700 | 450 | 25000 | 15 |
| 0026342 | DIM RefLED MR16 7W 450lm | 7 | 12 | 40 | GU5.3 | 3000 | 450 | 25000 | 15 |

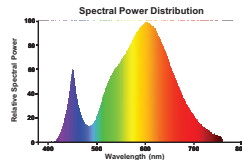
Homelight - 827



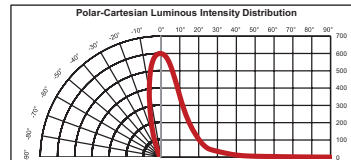
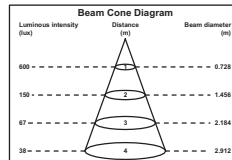
MR16 25° 350lm Dimmable



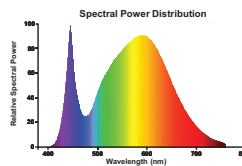
Warm white - 830



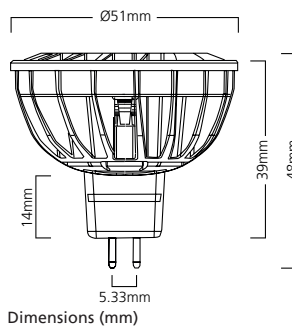
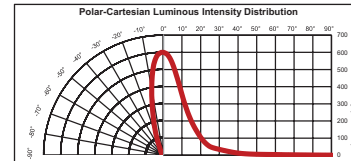
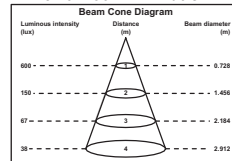
MR16 40° 350lm Dimmable



Cool white - 840



MR16 40° 450lm Dimmable





- Authentic SA 111 with aluminium patented spiralised reflector design offering uniform light distribution
- Only LED retrofit lamp that has the same attractive design as the halogen, due to LED's being placed at the back of the anti-glare shield
- Very low glare
- Available in 2700K Warm white light (halogen-like)
- Comes in 8°, 25° and 40° beam angles
- Short pay back period, high energy savings compared to halogen lamps
- Recommend using a Lumiance Lumidriver (Item code: 3036290)
- Can be used on Lumiance Expospot and Motto luminaires
- Average rated life 25,000 hrs

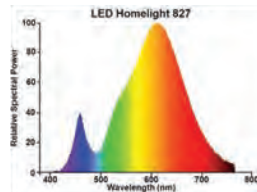


Compatible with 12V DC transformer available Sylvania code 3036290

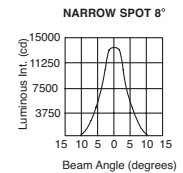
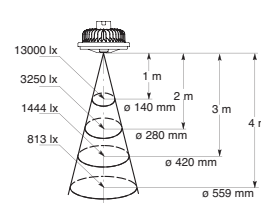
RefLED LV SA111

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|--------------------------------|----------|----------|----------------|-----|-----------------|--------------------|--------------------------|-------------|
| 0026315 | RefLED SA111 8° SL Warm White | 11 | 12V | 8 | G53 | 2700 | 300 | 25000 | 10 |
| 0026316 | RefLED SA111 25° SL Warm White | 11 | 12V | 25 | G53 | 2700 | 300 | 25000 | 10 |
| 0026317 | RefLED SA111 40° SL Warm White | 11 | 12V | 40 | G53 | 2700 | 300 | 25000 | 10 |

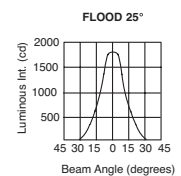
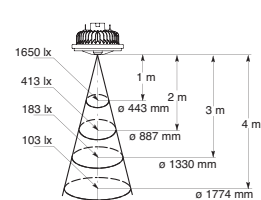
Homelight 827



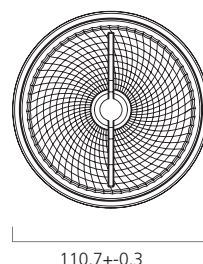
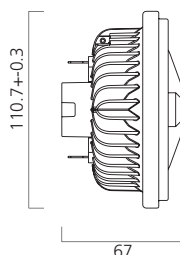
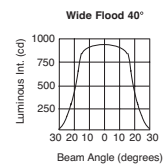
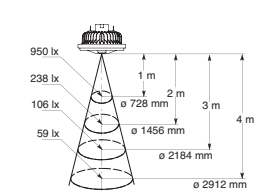
SA111 8° SL



SA111 25° SL



SA111 40° SL



Dimensions (mm)



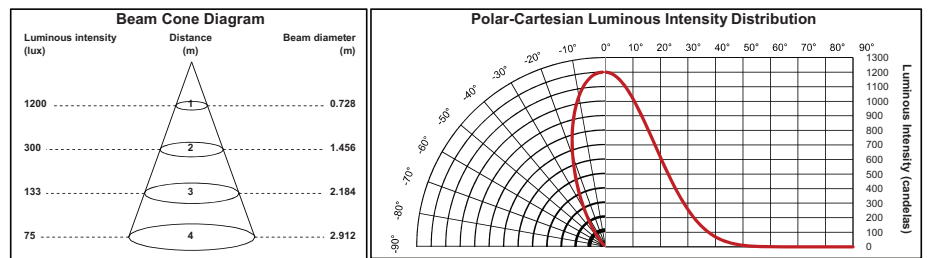
- 10W, low energy consumption product with low maintenance costs
- Good colour rendering CRI 80
- High output of 550lm
- High power factor, 0.9
- Dimmable on magnetic transformers
- Same size as halogen lamps, fits AR111 luminaires
- Broad compatibility with dimmers and high frequency electronic transformers
- Average rated life 50,000 hrs



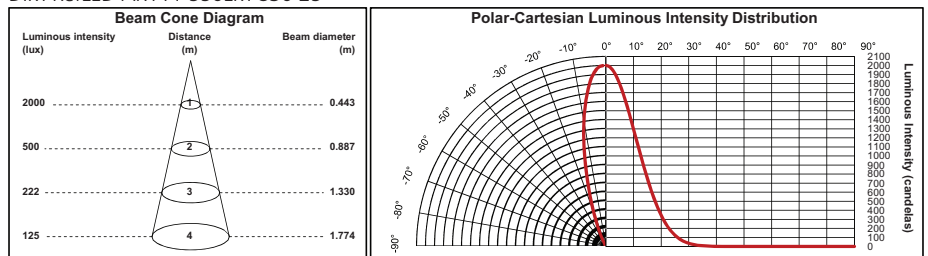
RefLED AR111 550lm

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) |
|---------|--------------------------------|----------|----------|----------------|-----|-----------------|--------------------|--------------------------|
| 0026402 | DIM RefLED 550lm AR111 10W 40° | 10 | 12 | 40 | G53 | 3000 | 550 | 50000 |
| 0026403 | DIM RefLED 550lm AR111 10W 25° | 10 | 12 | 25 | G53 | 3000 | 550 | 50000 |

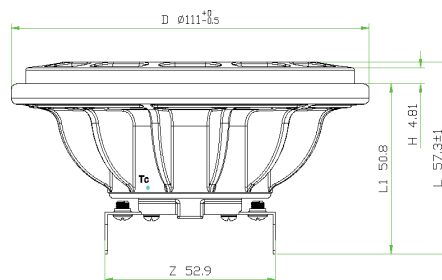
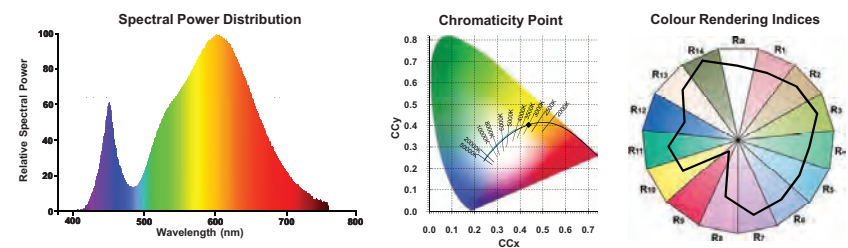
DIM RefLED AR111 550LM 830 40°



DIM RefLED AR111 550LM 830 25°



Warm White - 830



Dimensions (mm)



- Up to 80% energy saving compared to halogen lamps
- Easy installation with G9 Plug-in base
- Suitable for use in open luminaire following Luminaire standard EN60598-1
- 100% retrofit - compact size for existing fittings
- Uniform light distribution
- Available in Homelight (2700K)
- Average rated life 25,000 hrs



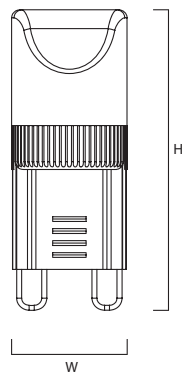
3 YEAR WARRANTY

ToLEDo HI-PIN G9

| Code | Description | Watt (W) | Volt (V) | Colour Temp (K) | Cap | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|----------------|-------------------------------|----------|----------|-----------------|-----|--------------------|--------------------------|-------------|
| 0126730 | LED Hi-Pin G9 Frosted 80LM SL | 1.5 | 220-240 | 2700 | G9 | 80 | 25000 | 6 |

Dimensions (mm)

| | |
|----|----------------------|
| G9 | 0126730 |
| H | 47 ⁺¹ |
| W | 13.8 ^{+0.5} |



Dimensions (mm)

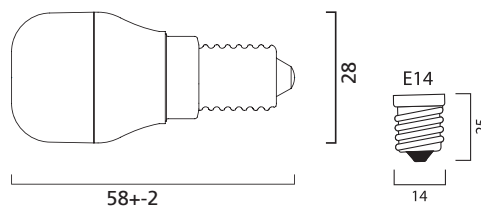


- 100% retrofit: direct incandescent lamp replacement
- Robust compact size
- IP65 lamp: water and dust resistant making it suitable for use in refrigerators
- Very low energy consumption
- 3000K Warm white
- Excellent light effect and colour rendering (Ra CRI = 80)
- Average rated life 15,000 hrs



ToLEDo Special Pygmy

| Code | Description | Watt (W) | Volt (V) | Colour Temp (K) | Cap | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|------------------------------|----------|----------|-----------------|-----|--------------------|--------------------------|-------------|
| 0026510 | ToLEDo Special Pygmy SL | 1.5 | 220-240 | 3000 | E14 | 60 | 15000 | 6 |
| 0026508 | ToLEDo Special Pygmy Frosted | 0.8 | 220-240 | 3000 | E14 | 36 | 15000 | 6 |



Dimensions (mm)



Micro-Lynx LED Satin (front view)



Micro-Lynx LED Satin (side view)



Micro-Lynx LED Clear (front view)



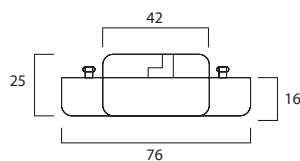
Micro-Lynx LED Clear (side view)

- High lumen output: 250lm (3000K)
- 2700K Homelight, 3000K Warm white, 4000K Cool White and 6000K Daylight
- Instant start
- Clear or satin finish
- Compatible with Lumiance Insaver & Microsaver (Recessed, Semi-Recessed & Surface mounted)
- Average rated life 15,000 hrs



LED Micro-Lynx 250lm

| Code | Description | Watt (W) | Volt (V) | Colour Temp (K) | Cap | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------------|----------|----------|-----------------|------|--------------------|--------------------------|-------------|
| 0026664 | Micro-Lynx LED 4W Clear 2700K | 4 | 220-240 | 2700 | GX53 | 250 | 15000 | 6 |
| 0026780 | Micro-Lynx LED 4W Clear 3000K | 4 | 220-240 | 3000 | GX53 | 250 | 15000 | 6 |
| 0026781 | Micro-Lynx LED 4W Clear 4000K | 4 | 220-240 | 4000 | GX53 | 260 | 15000 | 6 |
| 0026830 | Micro-Lynx LED 4W Clear 6000K | 4 | 220-240 | 6000 | GX53 | 300 | 15000 | 6 |
| 0026782 | Micro-Lynx LED 4W Satin 2700K | 4 | 220-240 | 2700 | GX53 | 250 | 15000 | 6 |
| 0026783 | Micro-Lynx LED 4W Satin 3000K | 4 | 220-240 | 3000 | GX53 | 250 | 15000 | 6 |
| 0026666 | Micro-Lynx LED 4W Satin 4000K | 4 | 220-240 | 4000 | GX53 | 260 | 15000 | 6 |
| 0026831 | Micro-Lynx LED 4W Satin 6000K | 4 | 220-240 | 6000 | GX53 | 300 | 15000 | 6 |



Dimensions (mm)



- Retrofit for T8 luminaires, easy plug and play solution for magnetic ballasts
- Made in Germany to the highest quality standards
- High colour rendering (CRI=80+)
- Available in three color temperatures (3000K-4000K-6500K)
- Instant light, allows better utilisation of lighting control and even greater energy saving
- Very robust construction
- 100° degree rotating end cap which allows to direct the light
- Locking system preventing tubes from rotation, advantage for application areas with strong vibration
- 120° beam angle
- Low temperature operation, not impacted by the cold (-30C to +40C)
- Eco-friendly lamp; mercury-free
- Highly reliable click together construction
- Average rated life 40.000 hours, reduced maintenance cost

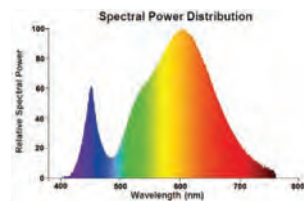


ToLEDo Tube

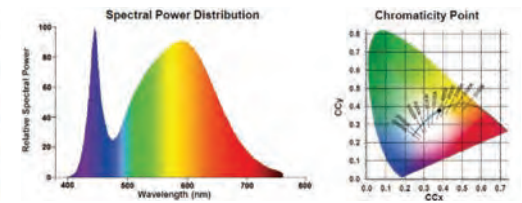
| Code | Description | Watt (W) | Volt (V) | Colour Temp (K) | Cap | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|----------|-----------------------|----------|----------|-----------------|-----|--------------------|--------------------------|-------------|
| 0027020 | ToLEDo Tube 2ft 3000K | 11 | 220-240 | 3000 | G13 | 1150 | 40000 | 6 |
| 0027021 | ToLEDo Tube 2ft 4000K | 11 | 220-240 | 4000 | G13 | 1200 | 40000 | 6 |
| 0027022* | ToLEDo Tube 2ft 6500K | 11 | 220-240 | 6500 | G13 | 1250 | 40000 | 6 |
| 0027023 | ToLEDo Tube 4ft 3000K | 26 | 220-240 | 3000 | G13 | 2500 | 40000 | 6 |
| 0027024 | ToLEDo Tube 4ft 4000K | 26 | 220-240 | 4000 | G13 | 2600 | 40000 | 6 |
| 0027025* | ToLEDo Tube 4ft 6500K | 26 | 220-240 | 6500 | G13 | 2650 | 40000 | 6 |
| 0027026* | ToLEDo Tube 5ft 3000K | 32 | 220-240 | 3000 | G13 | 3100 | 40000 | 6 |
| 0027027 | ToLEDo Tube 5ft 4000K | 32 | 220-240 | 4000 | G13 | 3200 | 40000 | 6 |
| 0027028* | ToLEDo Tube 5ft 6500K | 32 | 220-240 | 6500 | G13 | 3300 | 40000 | 6 |

* Make to order

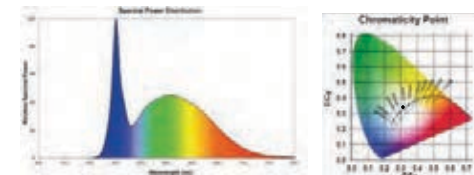
Warm white - 830



Cool white - 840



Daylight - 865



LED ToLEDo Tube

Installation instructions for magnetic ballast

- No need to change luminaire or rewire the fixture
- Remove existing starter and replace with the starter provided with lamp
- Only suitable for use with MAGNETIC BALLAST, cannot be used with electronic ballasts



Dimensions (mm)

Dimensions (mm)

| 2ft | A | B | C |
|-----|-------|-------|-------|
| Min | - | 594.5 | - |
| Max | 598.8 | 596.9 | 604.0 |

Dimensions (mm)

| 4ft | A | B | C |
|-----|--------|--------|--------|
| Min | - | 1204.1 | - |
| Max | 1199.4 | 1206.5 | 1213.6 |

Dimensions (mm)

| 5ft | A | B | C |
|-----|--------|--------|--------|
| Min | - | 1504.7 | - |
| Max | 1500.0 | 1507.1 | 1514.0 |



31 Superia CMI



32 Superia CMI Mini



32 Superia CMI BriteSpot



33 Superia CMI-TT



34 CMI



35 UrbanWhite



36 Quartz Britespot



38 HSI



41 High Pressure Sodium



50 Mercury Discharge



55 Low Pressure Sodium



56 BriteTronic™
Electronic Control
Gear



HID Lamps

High Intensity Discharge (HID) lamps comprise four major groups – metal halide, high pressure sodium, high pressure mercury and low pressure sodium – HID lamps meet a variety of lighting needs for interior and exterior applications. Sylvania's range of discharge lamps are characterised by quality materials, certified manufacturing techniques and stringent quality control procedures, to ensure the highest performance and reliability standards.

Superia CMI

Sylvania Superia CMI is our new generation ceramic metal halide range characterised by its unique one-piece elliptical arc tube. With its best in class red rendition, Superia CMI performs best in retail and display lighting, shop windows, museums and galleries.

CMI

Sylvania CMI represents a breakthrough in metal halide lamps. We have combined long life and excellent lumen maintenance in the CMI range to allow displays to look more vibrant and fresher, for longer. Available in all lamp finishes, colour temperatures and wattages the Sylvania CMI offers the full range portfolio to deliver strong accent lighting performance.





CMI-T



CMI-TC



CMI-TD

- Unique one-piece elliptical arc tube
- Ceramic arc tube ensures colour uniformity and stability throughout lamp life
- Very high luminous efficiency in a compact lamp format
- Excellent colour rendering
- UV-stop quartz reduces colour fading of merchandise
- For use only in luminaires equipped with a protective cover glass
- Applications in both interior and exterior lighting – shops, hotel lobbies and architectural
- WDL types can be operated on electronic and electromagnetic gear. NDL types have reduced life when operated on electromagnetic gear

CMI-T / CMI-TC



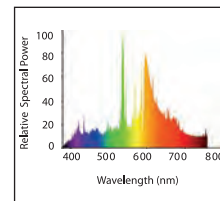
CMI-TD



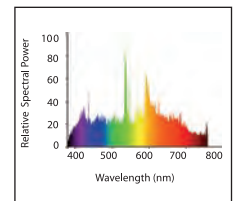
Superia CMI-T/ CMI-TC / CMI-TD

| Code | Description | Watt (W) | Lamp Finish | Cap/Base | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-----------------------|-------------------------|----------|-------------|----------|-----------------|-----|--------------------|--------------------------|-------------|
| Superia CMI-T | | | | | | | | | |
| 0020296 | Superia CMI-T 20W/WDL | 20 | Clear | G12 | 3000 | 85 | 1900 | 15000 | 12 |
| 0020300 | Superia CMI-T 35W/WDL | 35 | Clear | G12 | 3000 | 91 | 4000 | 15000 | 12 |
| 0020290 | Superia CMI-T 35W/NDL | 35 | Clear | G12 | 4200 | 92 | 4000 | 15000 | 12 |
| 0020293 | Superia CMI-T 50W WDL | 50 | Clear | G12 | 3000 | 87 | 4900 | 15000 | 12 |
| 0020301 | Superia CMI-T 70W/WDL | 70 | Clear | G12 | 3000 | 90 | 7300 | 15000 | 12 |
| 0020305 | Superia CMI-T 70W/NDL | 70 | Clear | G12 | 4200 | 96 | 7300 | 15000 | 12 |
| 0020295 | Superia CMI-T 100W WDL | 100 | Clear | G12 | 3000 | 83 | 10500 | 15000 | 12 |
| 0020302 | Superia CMI-T 150W/WDL | 150 | Clear | G12 | 3000 | 90 | 15000 | 15000 | 12 |
| 0020306 | Superia CMI-T 150W/NDL | 150 | Clear | G12 | 4200 | 96 | 15000 | 15000 | 12 |
| Superia CMI-TC | | | | | | | | | |
| 0020297 | Superia CMI-TC 20W/WDL | 20 | Clear | G12 | 3000 | 85 | 1900 | 15000 | 12 |
| 0020303 | Superia CMI-TC 35W/WDL | 35 | Clear | G8.5 | 3000 | 91 | 4000 | 15000 | 12 |
| 0020291 | Superia CMI-TC 35W/NDL | 35 | Clear | G8.5 | 4200 | 94 | 4000 | 15000 | 12 |
| 0020294 | Superia CMI-TC 50W/WDL | 50 | Clear | G8.5 | 3000 | 87 | 4900 | 15000 | 12 |
| 0020304 | Superia CMI-TC 70W/WDL | 70 | Clear | G8.5 | 3000 | 94 | 7300 | 15000 | 12 |
| 0020292 | Superia CMI-TC 70W/NDL | 70 | Clear | G8.5 | 4200 | 96 | 7300 | 15000 | 12 |
| Superia CMI-TD | | | | | | | | | |
| 0020307 | Superia CMI-TD 70W/WDL | 70 | Clear | RX7s | Clear | 90 | 6900 | 15000 | 12 |
| 0020308 | Superia CMI-TD 70W/NDL | 70 | Clear | RX7s | Clear | 96 | 7000 | 15000 | 12 |
| 0020309 | Superia CMI-TD 150W/WDL | 150 | Clear | RX7s-24 | Clear | 93 | 15000 | 15000 | 12 |
| 0020310 | Superia CMI-TD 150W/NDL | 150 | Clear | RX7s-24 | Clear | 93 | 15000 | 15000 | 12 |

Ceramic Metal Halide CMI WDL



Ceramic Metal Halide CMI NDL



| | | | |
|--------|-----|------|------|
| CMI-T | 35W | 70W | 150W |
| D | 20 | 20 | 20 |
| L | 90 | 90 | 100 |
| CMI-TD | 70W | 150W | |
| D | 22 | 25 | |
| L | 118 | 135 | |
| CMI-TC | 35W | 70W | |
| D | 17 | 17 | |
| L | 85 | 85 | |

G12



RX7s



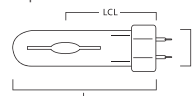
RX7s-24



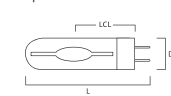
G8.5



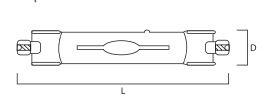
Superia CMI-T



Superia CMI-TC



Superia CMI-TD





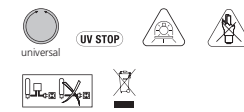
Superia CMI-T_{mini}



CMI-R_{BriteSpot}

- Ceramic arc tube to ensure reliability, colour uniformity and stability throughout lamp life
- Unique one piece elliptical arc tube for highest efficacy combined with excellent colour rendition
- Very compact lamp design, allowing for compact fixture developments
- Easy to install and robust GX10 or GU6.5 twist and lock lamp base
- Crisp warm white light allowing significant energy saving versus low voltage halogen:
Superia CMI 20W ~ Low Voltage Halogen 50W
- Operation on electronic control gear for 20W metal halide

Superia CMI-T_{mini}



Superia CMI-R_{BriteSpot}



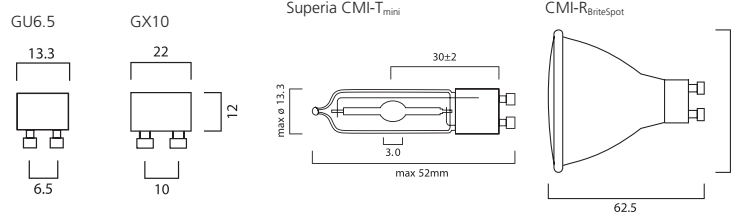
Superia CMI-T_{mini}

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|----------------------------|----------|-------------|-------|-----------------|-----|--------------------|--------------------------|-------------|
| 0020311 | Superia CMI-T mini 20W/WDL | 20 | Clear | GU6.5 | 3000 | 85 | 1900 | 15000 | 12 |

Superia CMI-R_{BriteSpot}

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------|--------------------------------------|----------|-------------|------|-----------------|-----|-------------------------|--------------------------|-------------|
| 0020312 | Superia CMI-R BriteSpot ES50 20W 24° | 20 | Clear | GX10 | 3000 | 85 | 3600 | 12000 | 15 |
| 0020313 | Superia CMI-R BriteSpot ES50 20W 38° | 20 | Clear | GX10 | 3000 | 85 | 2100 | 12000 | 15 |
| 0020314 | Superia CMI-R BriteSpot ES50 20W 60° | 20 | Clear | GX10 | 3000 | 85 | 1000 | 12000 | 15 |

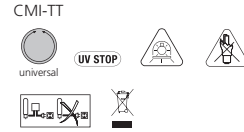
Dimensions (mm)





CMI-TT

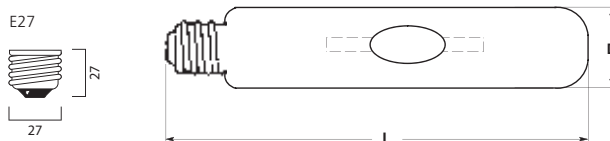
- Unique one-piece elliptical arc tube.
- Ceramic arc tube ensures colour uniformity and stability throughout lamp life.
- Very high luminous efficiency in a compact lamp format.
- Excellent colour rendering.
- For use only in luminaires equipped with a protective cover glass.
- CMI-TT lamps can directly replace High Pressure Sodium lamps for simple conversion to white light.
- Exterior applications such as car parks, perimeter lighting, security and building entrances.



SUPERIA CMI-TT

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Initial Lumens (lm) | Average Rated Life (Hrs) | Packing Qty |
|----------------|-------------------------|----------|-------------|-----|-----------------|-----|---------------------|--------------------------|-------------|
| 0020379 | SUPERIA CMI-TT 50W/WDL | 50 | Clear | E27 | 3000 | 84 | 5000 | 15,000 | 12 |
| 0020380 | SUPERIA CMI-TT 70W/WDL | 70 | Clear | E27 | 3000 | 89 | 7400 | 15,000 | 12 |
| 0020381 | SUPERIA CMI-TT 100W/WDL | 100 | Clear | E40 | 3000 | 85 | 10,800 | 15,000 | 12 |
| 0020382 | SUPERIA CMI-TT 150W/WDL | 150 | Clear | E40 | 3000 | 82 | 15,000 | 15,000 | 12 |

| CMI-TT | 70W | 100W | 150W |
|--------|-----|------|------|
| L | 156 | 211 | 211 |
| D | 39 | 48 | 48 |

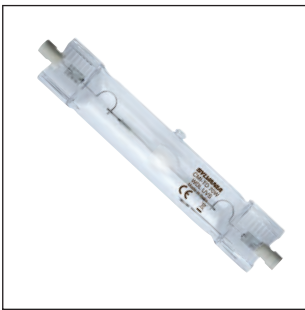




CMI-T



CMI-TC



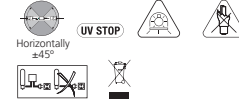
CMI-TD

- Unique one-piece elliptical arc tube
- Ceramic arc tube ensures colour uniformity and stability throughout lamp life
- Very high luminous efficiency in a compact lamp format
- Excellent colour rendering
- UV-stop quartz reduces colour fading of merchandise
- For use only in luminaires equipped with a protective cover glass
- Applications in both interior and exterior lighting - shops, hotel lobbies and architectural floodlighting
- WDL types can be operated on electronic and electromagnetic gear. NDL types have reduced life when operated on electromagnetic gear

CMI-T / CMI-TC



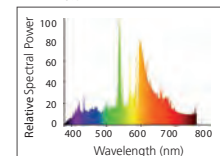
CMI-TD



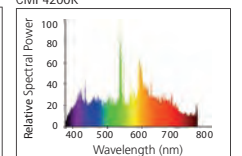
CMI-T / CMI-TC / CMI-TD

| Code | Description | Watt (W) | Lamp Finish | Cap/Base | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------|-----------------|----------|-------------|----------|-----------------|-----|--------------------|--------------------------|-------------|
| CMI-T | | | | | | | | | |
| 0020365 | CMI-T 35W/WDL | 35 | Clear | G12 | 3000 | 86 | 3750 | 12,000 | 12 |
| 0020367 | CMI-T 35W/NDL | 35 | Clear | G12 | 4200 | 91 | 3700 | 12,000 | 12 |
| 0020369 | CMI-T 70W/WDL | 70 | Clear | G12 | 3000 | 87 | 6700 | 12,000 | 12 |
| 0020371 | CMI-T 70W/NDL | 70 | Clear | G12 | 4200 | 93 | 6700 | 12,000 | 12 |
| 0020375 | CMI-T 150W/WDL | 150 | Clear | G12 | 3000 | 86 | 13800 | 12,000 | 12 |
| 0020376 | CMI-T 150W/NDL | 150 | Clear | G12 | 4200 | 91 | 13500 | 12,000 | 12 |
| CMI-TC | | | | | | | | | |
| 0020366 | CMI-TC 35W/WDL | 35 | Clear | G8.5 | 3000 | 87 | 3750 | 12,000 | 12 |
| 0020368 | CMI-TC 35W/NDL | 35 | Clear | G8.5 | 4200 | 90 | 3750 | 12,000 | 12 |
| 0020370 | CMI-TC 70W/WDL | 70 | Clear | G8.5 | 3000 | 89 | 6700 | 12,000 | 12 |
| 0020374 | CMI-TC 70W/NDL | 70 | Clear | G8.5 | 4200 | 93 | 6700 | 12,000 | 12 |
| CMI-TD | | | | | | | | | |
| 0020372 | CMI-TD 70W/WDL | 70 | Clear | Rx7s | 3000 | 86 | 6500 | 12,000 | 12 |
| 0020373 | CMI-TD 70W/NDL | 70 | Clear | RX7s | 4200 | 93 | 6300 | 12,000 | 12 |
| 0020377 | CMI-TD 150W/WDL | 150 | Clear | Rx7s-24 | 3000 | 86 | 13700 | 12,000 | 12 |
| 0020378 | CMI-TD 150W/NDL | 150 | Clear | Rx7s-24 | 4200 | 90 | 13000 | 12,000 | 12 |

CMI 3000K



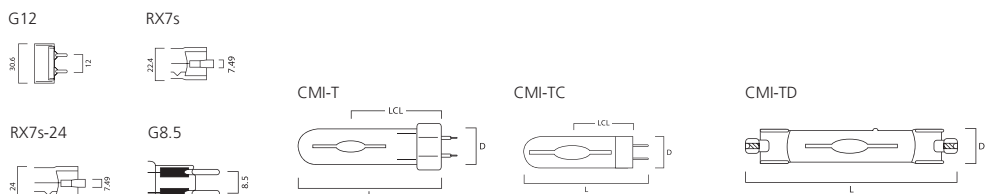
CMI 4200K



| Dimensions | 35W | 70W | 150W |
|-----------------|-----|-----|------|
| L / Length (mm) | 90 | 90 | 100 |

| Dimensions | 35W | 70W |
|-----------------|-----|-----|
| L / Length (mm) | 85 | 85 |

| Dimensions | 70W | 150W |
|-------------------|-------|-------|
| L / Length (mm) | 117.6 | 135.4 |
| D / Diameter (mm) | 22 | 25 |



Dimensions (mm)



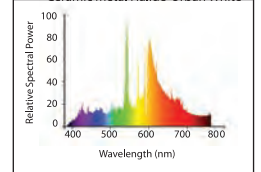
- Maximum performance of up to 118 lm/W
- High system efficacy for energy saving between 30% - 70% compared to SHP and HSL options
- Reduced CO2 emissions for a cleaner environment
- Improved colour rendering compared to SHP
- Precise optical positioning and fixation due to the PGZ12 twist and lock cap
- Optimal service life of 4 years
- Compact size for modern high-performance luminaires
- White light solution of outdoor applications using Ceramic Metal Halide technology



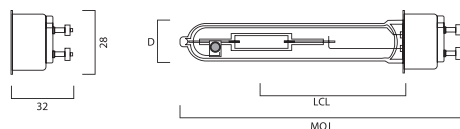
Urbanwhite

| Code | Description | Watt (W) | Volt (V) | Current (A) | Lamp Finish | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|-------------------|------------------------|----------|----------|-------------|-------------|-------|-----------------|--------------------|-------------|
| UrbanWhite | | | | | | | | | |
| 0020360 | UrbanWhite CMO-TW 45W | 45 | 90 | 0.5 | Clear | PGZ12 | 2720 | 4300 | 12 |
| 0020361 | UrbanWhite CMO-TW 60W | 60 | 92 | 0.65 | Clear | PGZ12 | 2730 | 6850 | 12 |
| 0020362 | UrbanWhite CMO-TW 90W | 90 | 92 | 0.98 | Clear | PGZ12 | 2880 | 10450 | 12 |
| 0020363 | UrbanWhite CMO-TW 140W | 140 | 94 | 1.49 | Clear | PGZ13 | 2860 | 16500 | 12 |

Ceramic Metal Halide-Urban White



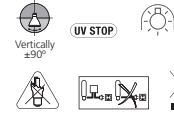
| Urban White | 45W | 60W | 90W | 140W |
|-------------|-----|-----|-----|------|
| LCL | 59 | 59 | 66 | 66 |
| MOL | 135 | 135 | 140 | 150 |
| D | 19 | 19 | 19 | 19 |



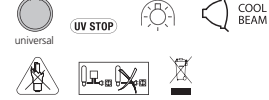


- The most compact quartz metal halide reflector lamp available, with stable light colour both initially and throughout life
- Crisp, powerful white light with outstanding colour rendering index of Ra90
- Three times more light compared to low voltage halogen lamps and reduced maintenance costs as a result of the long average lamp life
- Easy to install thanks to the robust new GX10 twist lock cap
- Extremely fast run-up (within less than 1 minute) with special design for safe failure at end of life
- Operation on compatible electronic gear as listed on the corporate website (www.havells-sylvania.com)
- Wide range of interior applications in retail, restaurants, hotels, galleries and residential

BriteSpot ES



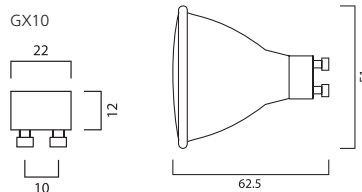
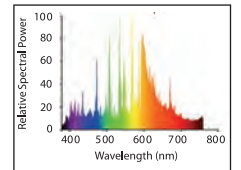
BriteSpot ESD



Britespot ES50™ / ESD50™

| Code | Description | Watt (W) | Cap | Colour Temp (K) | CRI | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|----------------------------------|-------------------------|----------|------|-----------------|-----|-------------------------|--------------------------|-------------|
| BriteSpot ES50™ | | | | | | | | |
| 0020272 | BriteSpot ES50 35W 24° | 35 | GX10 | 3000 | 90 | 7000 | 6000 | 15 |
| 0020270 | BriteSpot ES50 35W 38° | 35 | GX10 | 3000 | 90 | 4000 | 6000 | 15 |
| 0020271 | BriteSpot ES50 35W 60° | 35 | GX10 | 3000 | 90 | 2000 | 6000 | 15 |
| BriteSpot ESD50™ Dichroic | | | | | | | | |
| 0020273 | BriteSpot ESD50 35W 24° | 35 | GX10 | 3000 | 90 | 7000 | 6000 | 15 |
| 0020274 | BriteSpot ESD50 35W 38° | 35 | GX10 | 3000 | 90 | 4000 | 6000 | 15 |
| 0020275 | BriteSpot ESD50 35W 60° | 35 | GX10 | 3000 | 90 | 2000 | 6000 | 15 |

Metal Halide BriteSpot /WDL

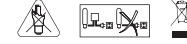


Dimensions (mm)

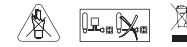


- Attractively styled lamp adds a touch of class to lighting designs
- Very high efficiency thanks to the large reflector and patented anti-glare optics
- Crisp, powerful white light with outstanding colour rendering index of Ra90
- Extremely high intensity possible with narrow beam versions, ideal for accent lighting
- Easy to install due to the robust new GX10 twist and lock cap
- Operation on compatible electronic gear as listed on the corporate website (www.havells-sylvania.com)
- Wide range of interior applications in shops, restaurants, hotels, galleries and many other cultural and leisure venues

BriteSpot ES

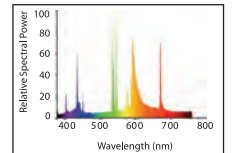


BriteSpot ESD

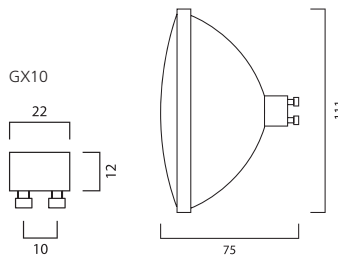


Britespot ES111™ / ESD111™

| Code | Description | Watt (W) | Cap | Colour Temp (K) | CRI | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|-----------------------------------|--------------------------|----------|------|-----------------|-----|-------------------------|--------------------------|-------------|
| BriteSpot ES111™ | | | | | | | | |
| 0020200 | BriteSpot ES111 35W 8° | 35 | GX10 | 3000 | 90 | 40000 | 6000 | 15 |
| 0020201 | BriteSpot ES111 35W 24° | 35 | GX10 | 3000 | 90 | 10000 | 6000 | 15 |
| 0020202 | BriteSpot ES111 35W 45° | 35 | GX10 | 3000 | 90 | 3500 | 6000 | 15 |
| BriteSpot ESD111™ Dichroic | | | | | | | | |
| 0020207 | BriteSpot ESD111 70W 24° | 70 | GX10 | 3000 | 90 | 20000 | 6000 | 15 |
| 0020208 | BriteSpot ESD111 70W 45° | 70 | GX10 | 3000 | 90 | 7000 | 6000 | 15 |



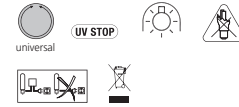
Metal Halide BriteSpot / WDL



Dimensions (mm)



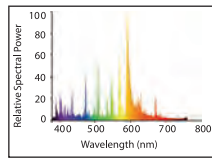
- A family of metal halide lamps specially designed for open and enclosed fixtures
- Lamps can directly replace High Pressure Sodium lamps to turn yellow installations to white light, simply by changing the lamp - for example, floodlighting, car parks
- Long service life of 15,000 hours keeps maintenance costs to a minimum
- Excellent colour maintenance throughout lamp life
- UV-stop outer jacket for reduced risks of fading
- Large variety of colours and wattages, in both clear and phosphor coated lamps
- Very economical light source for downlighting applications in large public spaces, for example airport terminals, halls, hotel lobbies and open-plan offices



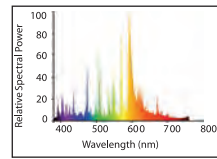
HSI-MP Metalarc

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|------------------------|--------------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-MP MetalArc | | | | | | | | | |
| 0020810 | HSI-MP 70W CL/WDL | 70 | Clear | E27 | 3000 | 65 | 5500 | 15,000 | 12 |
| 0020811 | HSI-MP 70W CO/WDL | 70 | Coated | E27 | 2900 | 65 | 5200 | 15,000 | 12 |
| 0020812 | HSI-MP 70W CL/NDL | 70 | Clear | E27 | 4000 | 65 | 5800 | 15,000 | 12 |
| 0020813 | HSI-MP 70W CO/NDL | 70 | Coated | E27 | 3800 | 65 | 5500 | 15,000 | 12 |
| 0020820 | HSI-MP 100W CL/WDL | 100 | Clear | E27 | 3000 | 70 | 8500 | 15,000 | 12 |
| 0020821 | HSI-MP 100W CO/WDL | 100 | Coated | E27 | 2900 | 70 | 7000 | 15,000 | 12 |
| 0020822 | HSI-MP 100W CL/NDL | 100 | Clear | E27 | 4000 | 70 | 8500 | 15,000 | 12 |
| 0020823 | HSI-MP 100W CO/NDL | 100 | Coated | E27 | 3800 | 70 | 8100 | 15,000 | 12 |
| 0020830 | HSI-MP 150W CL/WDL | 150 | Clear | E27 | 3000 | 65 | 13000 | 15,000 | 12 |
| 0020831 | HSI-MP 150W CO/WDL | 150 | Coated | E27 | 2900 | 65 | 12500 | 15,000 | 12 |
| 0020832 | HSI-MP 150W CL/NDL | 150 | Clear | E27 | 4000 | 70 | 13000 | 15,000 | 12 |
| 0020833 | HSI-MP 150W CO/NDL | 150 | Coated | E27 | 3800 | 70 | 12500 | 15,000 | 12 |

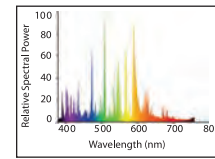
Metal Halide HSI-MP/WDL/CL



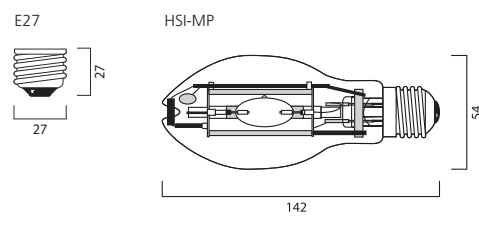
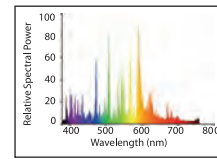
Metal Halide HSI-MP/WDL/CO



Metal Halide HSI-MP/NDL/CL

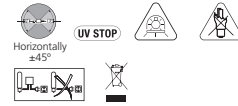


Metal Halide HSI-MP/NDL/CO





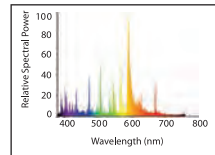
- Double ended quartz metal halide lamps with a compact tubular clear outer envelope
- Choice of three different colour temperatures: Warm, Neutral White and Daylight
- UV-stop outer jacket for reduced risks of fading
- High efficiency, compact arc tube
- Suitable for general interior lighting in uplights or downlights, e.g. in shops and malls
- Economical source for exterior floodlighting of monuments, parks and facades



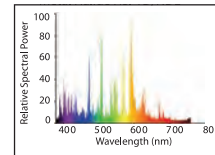
HSI-TD MetalArc

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|------------------------|-----------------|----------|-------------|------|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-TD MetalArc | | | | | | | | | |
| 0020230 | HSI-TD 70W/WDL | 70 | Clear | RX7S | 3200 | 70 | 5,200 | 9,000 | 10 |
| 0020231 | HSI-TD 70W/NDL | 70 | Clear | RX7S | 4000 | 70 | 5,500 | 9,000 | 10 |
| 0020232 | HSI-TD 150W/WDL | 150 | Clear | RX7S | 3200 | 70 | 11,250 | 9,000 | 10 |
| 0020233 | HSI-TD 150W/NDL | 150 | Clear | RX7S | 4000 | 70 | 11,250 | 9,000 | 10 |
| 0020235 | HSI-TD 150W/D | 150 | Clear | RX7S | 5200 | 70 | 11,250 | 9,000 | 10 |
| 0021036 | HSI-TD 250W/WDL | 250 | Clear | FC2 | 3200 | 70 | 20,000 | 9,000 | 10 |
| 0021037 | HSI-TD 250W/NDL | 250 | Clear | FC2 | 4200 | 70 | 20,000 | 9,000 | 10 |
| 0021047 | HSI-TD 250W/D | 250 | Clear | FC2 | 5200 | 70 | 18,000 | 9,000 | 10 |

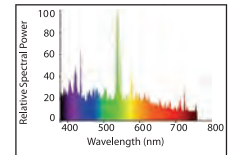
Metal Halide HSI-TD/WDL



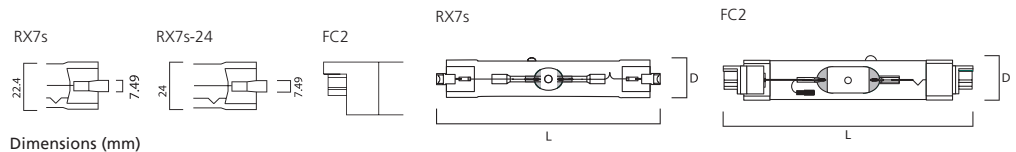
Metal Halide HSI-TD/NDL



Metal Halide HSI-TD/D



| HSI-TD | 70W | 150W | 250W |
|--------|-------|-------|-------|
| L | 117.6 | 135.4 | 161.6 |
| D | 22 | 25 | 27.5 |



Dimensions (mm)



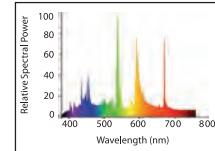
- Single ended quartz metal halide lamps with a compact tubular clear outer envelope
- Small point light source allows compact luminaire designs
- Ideal for spotlighting where high intensities are required
- UV-stop outer jacket for reduced risks of fading
- Suitable for interior accent and display lighting
- Exterior applications in floodlighting of monuments, parks and facades



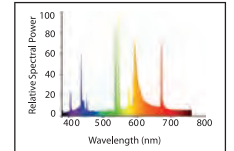
HSI-T Metalarc

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-----------------------|----------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-T MetalArc | | | | | | | | | |
| 0020335 | HSI-T 70W/WDL | 70 | Clear | G12 | 3000 | 70 | 6,000 | 6,000 | 12 |
| 0020340 | HSI-T 70W/NDL | 70 | Clear | G12 | 4200 | 70 | 6,000 | 6,000 | 12 |
| 0020336 | HSI-T 150W/WDL | 150 | Clear | G12 | 3000 | 70 | 13,000 | 6,000 | 12 |
| 0020341 | HSI-T 150W/NDL | 150 | Clear | G12 | 4200 | 70 | 13,000 | 6,000 | 12 |

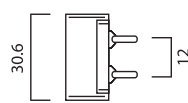
Metal Halide HSI-T/WDL



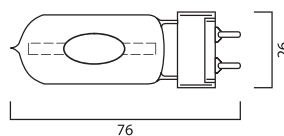
Metal Halide HSI-T/NDL



G12



Dimensions (mm)





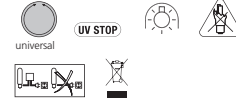
HSI-SX(P) BriteLux Elliptical



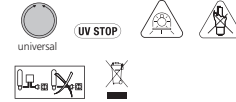
HSI-TSX BriteLux Tubular

- SX family of metal halide lamps for use with a sodium ballast
- Direct retrofit for sodium lamps to upgrade lighting to a more pleasant white light
- High lumen package with good colour rendering properties
- Good colour rendering properties
- 'P' protected versions incorporate integral shroud for safe use in open fixtures
- For commercial and industrial applications in shopping areas, factories, warehouses
- Exterior applications in city beautification to upgrade from yellow sodium light

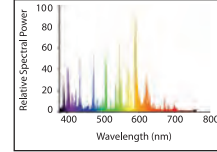
HSI-SX/P BriteLux



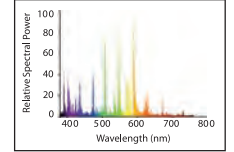
HSI-SX/TSX BriteLux



Metal Halide HSI-(T)SX/CL



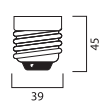
Metal Halide HSI-(T)SX/CO



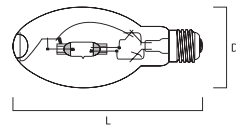
HSI-SX / HSI-TSX BriteLux

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-----------------------------------|---------------------------|----------|---------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-SX BriteLux Elliptical | | | | | | | | | |
| 0020772 | HSI-SX 250W/CL BriteLux | 250 | Clear | E40 | 4100 | 70 | 23500 | 20,000 | 12 |
| 0020776 | HSI-SX 250W/CL/P BriteLux | 250 | Cl/Protected | E40 | 4500 | 70 | 21000 | 15,000 | 12 |
| 0020771 | HSI-SX 250W/CO BriteLux | 250 | Coated | E40 | 3800 | 70 | 22300 | 15,000 | 12 |
| 0020775 | HSI-SX 250W/CO/P BriteLux | 250 | Co./Protected | E40 | 4200 | 70 | 20000 | 15,000 | 12 |
| 0020774 | HSI-SX 400W/CL/P BriteLux | 400 | Cl./Protected | E40 | 4300 | 70 | 40000 | 15,000 | 6 |
| 0020773 | HSI-SX 400W/CO/P BriteLux | 400 | Co./Protected | E40 | 4200 | 70 | 42000 | 15,000 | 6 |
| HSI-TSX BriteLux Tubular | | | | | | | | | |
| 0024407 | HSI-TSX 250W BriteLux | 250 | Clear | E40 | 4200 | 70 | 21000 | 20,000 | 12 |
| 0024409 | HSI-TSX 400W BriteLux | 400 | Clear | E40 | 4200 | 70 | 40000 | 20,000 | 12 |

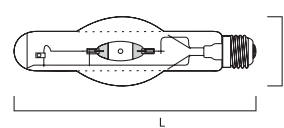
E40



HSI-SX



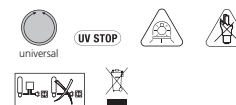
HSI-TSX



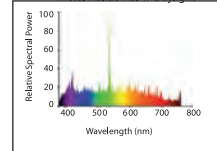
| | HSI-SX 250W | 400W |
|---------------------------|-------------|------|
| L | 227 | 290 |
| D | 90 | 120 |
| HSI-SX T 250W 400W | | |
| L | 260 | 270 |
| D | 48 | 63 |



- Single ended metal halide lamps with crisp daylight colour
- Excellent colour rendering Class 1A
- High light output
- Good lumen maintenance over life
- Industrial lighting e.g. car parks, rail yards, petrol stations and street lighting
- Sports arena lighting



Metal Halide HSI-T/ Daylight



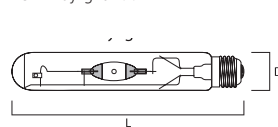
HSI-T Daylight

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-----------------------|--------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-T Daylight | | | | | | | | | |
| 0020530 | HSI-T 250W/D | 250 | Clear | E40 | 5300 | 70 | 20000 | 20,000 | 12 |
| 0020531 | HSI-T 400W/D | 400 | Clear | E40 | 6100 | 70 | 32000 | 20,000 | 12 |

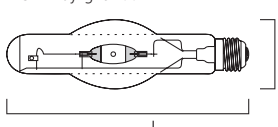
E40



HSI-T Daylight 250W



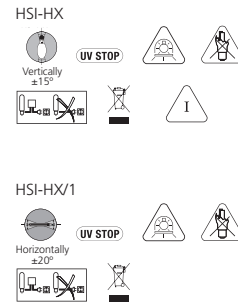
HSI-T Daylight 400W



| | HSI-T Daylight 250W | 400W |
|---|---------------------|------|
| L | 257 | 285 |
| D | 48 | 63 |



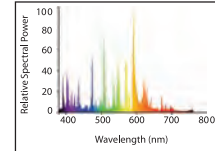
- HX family of metal halide lamps for use with a mercury ballast with soft ignitor
- HX family can also be operated on SHP control gear, resulting in both different output and colour temperature
- 'I' internal ignitor versions available, for simpler circuits with no ignitor
- 'I' versions can be used as a direct replacement for mercury discharge lamps
- High lumen package with good colour rendering properties
- For industrial applications such as petrol stations, car parks, rail yards
- Popular choice for sports arena lighting



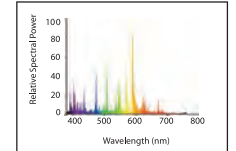
HSI-HX / HSI-THX

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------|------------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-HX Elliptical | | | | | | | | | |
| 0020357 | HSI-HX 250W/CL | 250 | Clear | E40 | 4500 | 70 | 23000 | 20,000 | 12 |
| 0020355 | HSI-HX 250W/CO | 250 | Coated | E40 | 3800 | 70 | 21000 | 20,000 | 12 |
| 0020353 | HSI-HX 400W/CL | 400 | Clear | E40 | 4500 | 70 | 37000 | 20,000 | 12 |
| 0020350 | HSI-HX 400W/CO | 400 | Coated | E40 | 3800 | 70 | 35200 | 20,000 | 12 |
| 0020351 | HSI-HX 400W/CO/I | 400 | Coated | E40 | 3800 | 70 | 35200 | 20,000 | 12 |
| HSI-THX Tubular | | | | | | | | | |
| 0020394 | HSI-THX 250W | 245 | Clear | E40 | 4500 | 70 | 20000 | 20,000 | 12 |
| 0020546 | HSI-THX 400W | 400 | Clear | E40 | 4200 | 70 | 36000 | 20,000 | 12 |

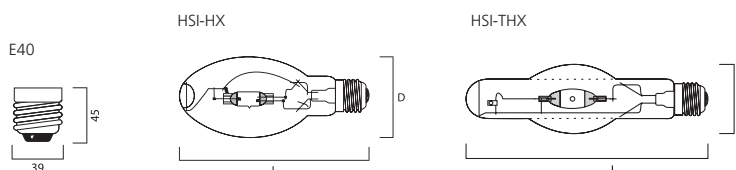
Metal Halide HSI-(T)HX/CL



Metal Halide HSI-(T)HX/CO

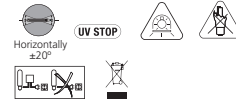


| | | |
|----------|------|------|
| HSI-HX | 250W | 400W |
| L | 227 | 290 |
| D | 90 | 120 |
| HSI-SX T | 250W | 400W |
| L | 257 | 270 |
| D | 48 | 63 |





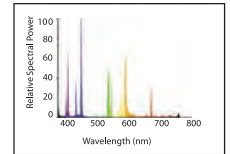
- Single ended quartz metal halide lamps with a tubular outer envelope
- Both internal and external ignitor versions available
- All versions operate on a standard mercury ballast, with or without (I type) external ignitor
- Very high light output with outstanding colour properties
- Suitable for colour television filming in sports stadia and large arena
- Industrial lighting applications in exterior car parks, rail and dock yards



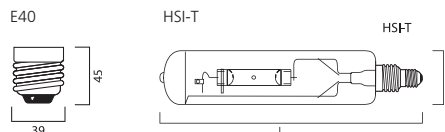
HSI-T

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|----------------|----------------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-T | | | | | | | | | |
| 0020597 | HSI-T 1000W | 1000 | Clear | E40 | 4000 | 70 | 81000 | 7,000 | 4 |
| 0020533 | HSI-T 2000W-S/380V | 2000 | Clear | E40 | 4000 | 70 | 200000 | 7,000 | 4 |
| 0020540 | HSI-T 2000W-S/I/380V | 2000 | Clear | E40 | 4000 | 70 | 200000 | 7,000 | 4 |

Metal Halide HSI-T 2000W/NDL



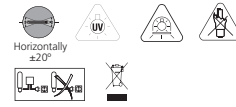
| HSI-T | 1000W | 2000W |
|-------|-------|-------|
| L | 382 | 430 |
| D | 66 | 102 |



Dimensions (mm)



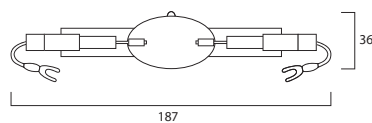
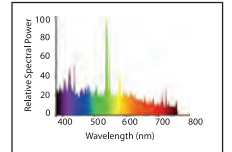
- Compact double ended quartz metal halide lamp
- Short arc source allows for good optical control in floodlighting luminaires
- No outer envelope required, permitting the design of compact luminaires
- Very high light output with excellent colour rendering properties
- Suitable for colour television filming in sports stadia and large arenas
- Exterior lighting applications in outdoor car parks, petrol stations, rail and dock yards



HSI-TD

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------|----------------|----------|-------------|-------|-----------------|-----|--------------------|--------------------------|-------------|
| HSI-TD | | | | | | | | | |
| 0020349 | HSI-TD 1000W/D | 1000 | Clear | Cable | 5900 | 70 | 90000 | 6000 | 10 |
| 0020339 | HSI-TD 2000W/D | 2000 | Clear | Cable | 5900 | 70 | 200000 | 4000 | 10 |

Metal Halide HSI-TD 2000W/D





- Range of high pressure sodium lamps with double arc tube construction
- Dual arc tube design guarantees immediate re-strike after a power interruption
- Doubled lamp life and reduced occurrence of early failures
- Exceptional reliability, offering 6 years of maintenance-free service and superior lumen maintenance, exceeding 95% over life
- Ideal for applications which are difficult to access, or where maintenance is expensive
- Perfect for tunnels, airports, military installations, harbours and industrial sites

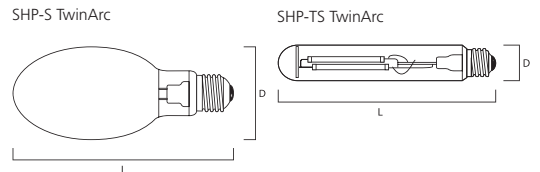
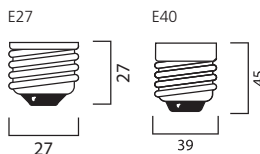


SHP-S / SHP-TS Twinarc

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------------------------|---------------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| SHP-S TwinArc Elliptical | | | | | | | | | |
| 0020720 | SHP-S 35W TwinArc | 35 | Coated | E27 | 2050 | 20 | 2014 | 40,000 | 40 |
| 0020717 | SHP-S 50W TwinArc | 50 | Coated | E27 | 2050 | 20 | 3446 | 40,000 | 40 |
| 0020719 | SHP-S 70W TwinArc | 70 | Coated | E27 | 2050 | 20 | 5694 | 55,000 | 40 |
| 0020725 | SHP-S 100W TwinArc | 100 | Coated | E40 | 2050 | 20 | 9420 | 55,000 | 40 |
| 0020740 | SHP-S 150W TwinArc | 150 | Coated | E40 | 2050 | 20 | 15917 | 55,000 | 12 |
| 0020742 | SHP-S 250W TwinArc | 250 | Coated | E40 | 2050 | 20 | 29486 | 55,000 | 12 |
| 0020744 | SHP-S 400W TwinArc | 410 | Coated | E40 | 2050 | 20 | 53242 | 55,000 | 12 |
| SHP-TS TwinArc Tubular | | | | | | | | | |
| 0020712 | SHP-TS 50W TwinArc | 50 | Clear | E27 | 2050 | 20 | 3844 | 40,000 | 40 |
| 0020718 | SHP-TS 70W TwinArc | 70 | Clear | E27 | 2050 | 20 | 6186 | 55,000 | 40 |
| 0020724 | SHP-TS 100W TwinArc | 100 | Clear | E40 | 2050 | 20 | 10233 | 55,000 | 12 |
| 0020739 | SHP-TS 150W TwinArc | 150 | Clear | E40 | 2050 | 20 | 16718 | 55,000 | 12 |
| 0020741 | SHP-TS 250W TwinArc | 255 | Clear | E40 | 2050 | 20 | 31592 | 55,000 | 12 |
| 0020743 | SHP-TS 400W TwinArc | 400 | Clear | E40 | 2050 | 20 | 53130 | 55,000 | 12 |

| SHP-S | 35W | 50W | 70W | 100W | 150W | 250W | 400W |
|-------|-----|-----|-----|------|------|------|------|
| L | 165 | 165 | 165 | 186 | 227 | 227 | 292 |
| D | 72 | 72 | 72 | 78 | 91 | 91 | 122 |

| SHP-TS | 35W | 50W | 70W | 100W | 150W | 250W | 400W |
|--------|-----|-----|-----|------|------|------|------|
| L | 156 | 156 | 156 | 211 | 211 | 260 | 292 |
| D | 39 | 39 | 39 | 48 | 48 | 48 | 48 |





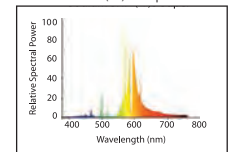
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- Exclusive 'frameless' construction delivers superior system efficiency and improves lumen maintenance over life
- Exceptional reliability, offering 4 years service with over 95% lumen maintenance
- Super versions with high xenon pressure boost luminous efficacy up to 150 lm/W
- Offers increased lighting levels and an extended maintenance-free service life in all road and industrial applications



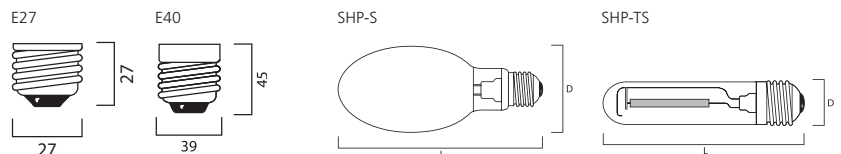
SHP-S/SHP-TS Super

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------|-------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| SHP-S Super Elliptical | | | | | | | | | |
| 0020448 | SHP-S 35W | 35 | Coated | E27 | 2050 | 20 | 2004 | 25,000 | 40 |
| 0020688 | SHP-S 50W | 50 | Coated | E27 | 2050 | 20 | 3604 | 24,000 | 40 |
| 0020690 | SHP-S 70W | 70 | Coated | E27 | 2050 | 20 | 5985 | 30,000 | 40 |
| 0020692 | SHP-S 100W | 100 | Coated | E40 | 2050 | 20 | 9873 | 30,000 | 40 |
| 0020693 | SHP-S 150W | 150 | Coated | E40 | 2050 | 20 | 16463 | 32,000 | 12 |
| 0020715 | SHP-S 250W | 250 | Coated | E40 | 2050 | 20 | 30189 | 32,000 | 12 |
| 0020716 | SHP-S 400W | 400 | Coated | E40 | 2050 | 20 | 53567 | 32,000 | 12 |
| SHP-TS Super Tubular | | | | | | | | | |
| 0020326 | SHP-TS 35W | 35 | Clear | E27 | 2050 | 20 | 2089 | 25,000 | 40 |
| 0020687 | SHP-TS 50W | 50 | Clear | E27 | 2050 | 20 | 3947 | 24,000 | 40 |
| 0020678 | SHP-TS 70W | 70 | Clear | E27 | 2050 | 20 | 6521 | 30,000 | 40 |
| 0020686 | SHP-TS 100W | 100 | Clear | E40 | 2050 | 20 | 10622 | 30,000 | 12 |
| 0020685 | SHP-TS 150W | 150 | Clear | E40 | 2050 | 20 | 17143 | 32,000 | 12 |
| 0020713 | SHP-TS 250W | 255 | Clear | E40 | 2050 | 20 | 32581 | 32,000 | 12 |
| 0020714 | SHP-TS 400W | 400 | Clear | E40 | 2050 | 20 | 54526 | 32,000 | 12 |
| 0020805 | SHP-TS 600W | 600 | Clear | E40 | 2050 | 20 | 87088 | 24,000 | 12 |

Sodium SHP(-)TS Super



| SHP-S | 35W | 50W | 70W | 100W | 150W | 250W | 400W |
|--------|-----|-----|-----|------|------|------|------|
| L | 165 | 165 | 165 | 186 | 227 | 227 | 292 |
| D | 72 | 72 | 72 | 78 | 91 | 91 | 122 |
| SHP-TS | 35W | 50W | 70W | 100W | 150W | 250W | 400W |
| L | 156 | 156 | 156 | 211 | 211 | 260 | 292 |
| D | 39 | 39 | 39 | 48 | 48 | 48 | 48 |





- ErP compliant High Pressure Sodium Lamps
- Long life between 24,000 to 28,000 hours, T90 at 16,000 hours
- Strong performance with high reliability
- Car park, Street and Floodlighting applications

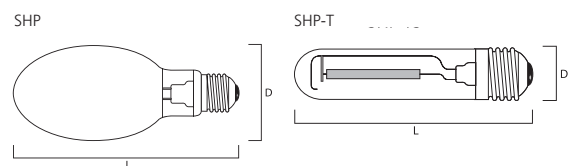
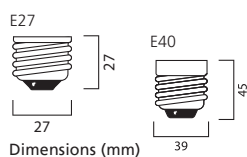


SHP / SHP-T Standard and Basic PLUS

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | CRI | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------|-----------------------|----------|-------------|-----|-----------------|-----|--------------------|--------------------------|-------------|
| SHP / SHP-T BASIC PLUS | | | | | | | | | |
| 0020841 | SHP 70W BASIC PLUS | 70 | Coated | E27 | 2050 | 20 | 6040 | 28,000 | 40 |
| 0020839 | SHP 100W BASIC PLUS | 100 | Coated | E40 | 2050 | 20 | 9500 | 28,000 | 40 |
| 0020842 | SHP 150W BASIC PLUS | 150 | Coated | E40 | 2050 | 20 | 16000 | 28,000 | 12 |
| 0020843 | SHP 250W BASIC PLUS | 250 | Coated | E40 | 2050 | 20 | 29000 | 28,000 | 12 |
| 0020844 | SHP 400W BASIC PLUS | 400 | Coated | E40 | 2050 | 20 | 51300 | 28,000 | 12 |
| 0020846 | SHP-T 70W BASIC PLUS | 70 | Clear | E27 | 2050 | 20 | 6500 | 28,000 | 40 |
| 0020838 | SHP-T 100W BASIC PLUS | 100 | Clear | E40 | 2050 | 20 | 10000 | 28,000 | 12 |
| 0020847 | SHP-T 150W BASIC PLUS | 150 | Clear | E40 | 2050 | 20 | 17000 | 28,000 | 12 |
| 0020848 | SHP-T 250W BASIC PLUS | 250 | Clear | E40 | 2050 | 20 | 33000 | 28,000 | 12 |
| 0020849 | SHP-T 400W BASIC PLUS | 400 | Clear | E40 | 2050 | 20 | 55000 | 28,000 | 12 |
| SHP / SHP-T Standard | | | | | | | | | |
| 0020554 | SHP 50W | 50 | Coated | E27 | 2050 | 20 | 3547 | 24,000 | 40 |
| 0020555 | SHP 70W | 70 | Coated | E27 | 2050 | 20 | 5800 | 24,000 | 40 |
| 0020481 | SHP 250W | 250 | Coated | E40 | 2050 | 20 | 28488 | 24,000 | 12 |
| 0020484 | SHP 400W | 400 | Coated | E40 | 2050 | 20 | 50574 | 24,000 | 12 |
| 0020455 | SHP-T 50W | 50 | Clear | E27 | 2050 | 20 | 3771 | 24,000 | 40 |
| 0020457 | SHP-T 70W | 70 | Clear | E27 | 2050 | 20 | 5855 | 24,000 | 40 |
| 0020482 | SHP-T 250W | 250 | Clear | E40 | 2050 | 20 | 30589 | 24,000 | 12 |
| 0020485 | SHP-T 400W | 392 | Clear | E40 | 2050 | 20 | 50602 | 24,000 | 12 |
| 0020504 | SHP-T 1000W | 960 | Clear | E40 | 2050 | 20 | 130000 | 24,000 | 4 |

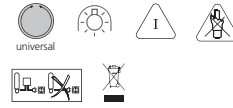
| SHP | 50W | 70W | 100W | 150W | 250W | 400W |
|-----|-----|-----|------|------|------|------|
| L | 165 | 165 | 178 | 227 | 227 | 292 |
| D | 72 | 72 | 78 | 91 | 91 | 122 |

| SHP-T | 35W | 70W | 100W | 150W | 250W | 400W | 1000W |
|-------|-----|-----|------|------|------|------|-------|
| L | 156 | 156 | - | 211 | 260 | 292 | 400 |
| D | 39 | 39 | - | 48 | 48 | 48 | 68 |





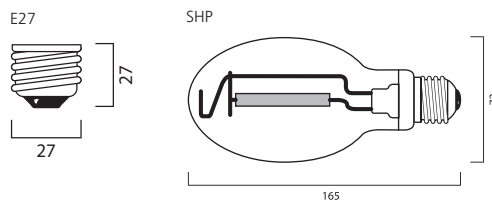
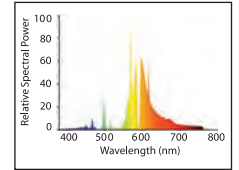
- Range of high pressure sodium lamps with internal ignitor
- Cost reduction opportunities since no ignitor or external wiring is required
- Enables luminaire size to be reduced since no ignitor is required
- Available in clear or coated elliptical bulbs
- Popular choice for parks, gardens, pedestrian zones and residential street lighting
- Low-cost illumination of workshops and small industrial areas



SHP Self-Starting

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | Packing Qty |
|-------------------------------------|--------------|----------|-------------|-----|-----------------|-------------|
| SHP Self-Starting Elliptical | | | | | | |
| 0020550 | SHP 50W/CO-I | 50 | Coated | E27 | 2050 | 40 |
| 0020551 | SHP 70W/CO-I | 70 | Coated | E27 | 2050 | 40 |
| 0020553 | SHP 70W/CL-I | 70 | Clear | E27 | 2050 | 40 |

SHP-(T)(TD) Standard



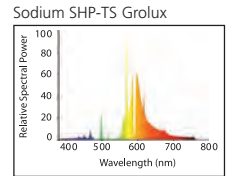


- Patented arc tube delivers highest photosynthetic efficiency of any lamp in the world
- Performance maintained at an exceptional level due to improved structure of outer bulb
- Optimised for the highest Phytolumens or PAR output
- GroLux light spectrum maximises red output essential for plant growth
- Industry leading lumen maintenance of 95% at the end of life
- Suitable for a plethora of applications related to plant growth

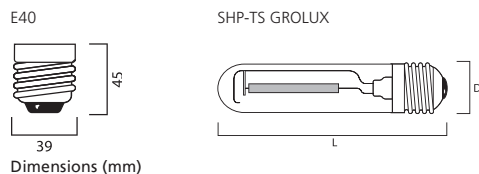


SHP-TS GroLux

| Code | Description | Watt (W) | Volt (V) | Current (A) | Lamp Finish | Cap | Colour Temp (K) | Par (µ mol) | Photosynthesis (PhytoLm) | Packing Qty |
|------------------------------|-------------------------|----------|----------|-------------|-------------|-----|-----------------|-------------|--------------------------|-------------|
| SHP-TS GroLux Tubular | | | | | | | | | | |
| 0020819 | SHP-TS 250W GroLux | 265 | 115 | 2.60 | Clear | E40 | 2050 | 425 | 75500 | 12 |
| 0020807 | SHP-TS 400W GroLux | 425 | 120 | 4.00 | Clear | E40 | 2050 | 713 | 128000 | 12 |
| 0020808 | SHP-TS 600W GroLux | 615 | 125 | 5.50 | Clear | E40 | 2050 | 1100 | 200000 | 12 |
| 0020809 | SHP-TS 600W/400V GroLux | 620 | 200 | 3.50 | Clear | E40 | 1950 | 1180 | 215000 | 12 |

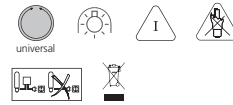


| SHP-TS GroLux | 250W | 400W | 600W |
|---------------|------|------|------|
| L | 260 | 292 | 292 |
| D | 48 | 48 | 48 |





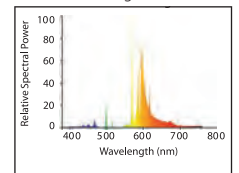
- Range of high pressure sodium lamps for direct retrofit of mercury lamps
- Offers reduced energy consumption and higher light levels when replacing mercury lamps
- Long average rated life, up to 20,000 hours
- Not recommended for operation on circuits having a leading power factor
- Suitable for direct installation in street and industrial applications using mercury lamps



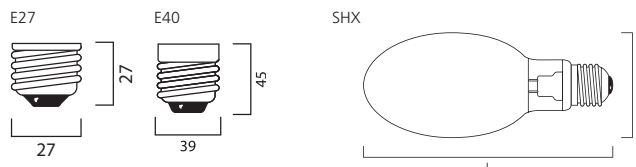
SHX Plug-In

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | Packing Qty |
|-------------------------------|-------------|----------|-------------|-----|-----------------|-------------|
| SHX Plug-In Elliptical | | | | | | |
| 0020560 | SHX 110W | 110 | Coated | E27 | 2000 | 40 |
| 0020488 | SHX 210W | 210 | Coated | E40 | 2000 | 12 |
| 0020490 | SHX 350W | 350 | Coated | E40 | 2000 | 12 |

Sodium SHX Plug-In

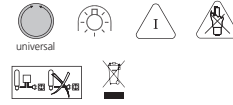


| SHX | 110W | 210W | 350W |
|-----|------|------|------|
| L | 178 | 228 | 292 |
| D | 76 | 91 | 122 |





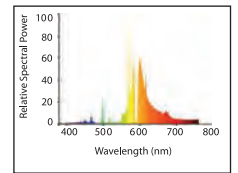
- Range of high pressure sodium lamps for direct retrofit of mercury lamps
- High xenon pressure delivers improved light output and reduced energy consumption over standard retrofit types
- Internal electronic ignitor provides reliable ignition of the xenon-filled arc tube
- Provides instant energy savings up to 18% over existing mercury installations
- Increased light output up to 50% more than comparable high pressure mercury lamp
- Excellent lumen maintenance throughout the long lamp life
- Upgrade for road/industrial installations to higher lighting levels with reduced energy consumption



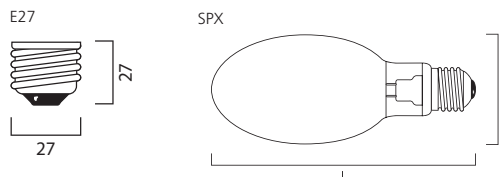
SPX EcoArc

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | Packing Qty |
|------------------------------|--------------------|----------|-------------|-----|-----------------|-------------|
| SPX EcoArc Elliptical | | | | | | |
| 0020800 | SPX EcoArc 69/108W | 69 | Coated | E27 | 1800 | 40 |
| 0020800 | SPX EcoArc 69/108W | 108 | Coated | E27 | 1900 | 40 |

Sodium SPX EcoArc

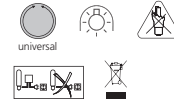


| | 69W | 108W |
|-----|-----|------|
| SHX | 176 | 176 |
| L | 76 | 76 |
| D | 76 | 76 |





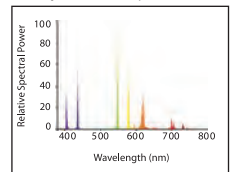
- Range of high pressure mercury lamps with improved colour rendering index (Ra60)
- Warm white colour temperature of 3400K
- Low cost white lighting solution operating on simple mercury choke circuit
- Excellent reliability throughout the long 29,000 hours average rated life
- High efficacy up to 60 lm/W
- Suitable for general interior lighting, and floodlighting of buildings and monuments



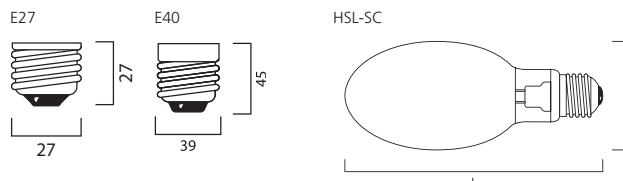
HSL-SC Super Comfort

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | Packing Qty |
|--|-------------|----------|-------------|-----|-----------------|-------------|
| HSL-SC Super Comfort Elliptical | | | | | | |
| 0020895 | HSL-SC 50W | 50 | Coated | E27 | 3400 | 24 |
| 0020890 | HSL-SC 80W | 80 | Coated | E27 | 3400 | 40 |
| 0020891 | HSL-SC 125W | 125 | Coated | E27 | 3400 | 40 |
| 0020892 | HSL-SC 250W | 250 | Coated | E40 | 3400 | 12 |
| 0020893 | HSL-SC 400W | 400 | Coated | E40 | 3400 | 12 |

Mercury HSL-SC (Super Comfort)

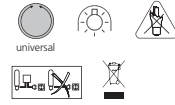


| HSL-SC | 50W | 80W | 125W | 250W | 400W |
|--------|-----|-----|------|------|------|
| L | 130 | 166 | 178 | 228 | 292 |
| D | 56 | 71 | 76 | 91 | 122 |





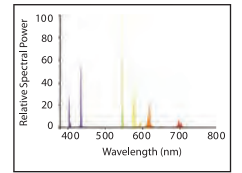
- Range of standard high pressure mercury lamps with Yttrium Vanadate phosphor
- Neutral white colour temperature of 4000K
- Low cost white lighting solution operating on simple mercury choke circuit
- Excellent reliability throughout the long 29,000 hours average rated life
- High efficacy up to 60 lm/W
- For replacement purposes only in roads, parks, industrial, rail and dock yard lighting



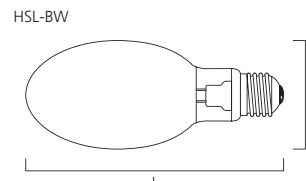
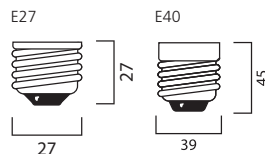
HSL-BW Bright White Standard

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | Packing Qty |
|--|--------------|----------|-------------|-----|-----------------|-------------|
| HSL-BW Bright White Standard Elliptical | | | | | | |
| 0020405 | HSL-BW 50W | 50 | Coated | E27 | 4000 | 24 |
| 0020406 | HSL-BW 80W | 80 | Coated | E27 | 4000 | 40 |
| 0020407 | HSL-BW 125W | 125 | Coated | E27 | 4000 | 40 |
| 0020408 | HSL-BW 250W | 250 | Coated | E40 | 4000 | 12 |
| 0020409 | HSL-BW 400W | 400 | Coated | E40 | 3800 | 12 |
| 0020410 | HSL-BW 700W | 700 | Coated | E40 | 4000 | 6 |
| 0020411 | HSL-BW 1000W | 1000 | Coated | E40 | 4000 | 6 |

Mercury HSL-BW (Bright White)

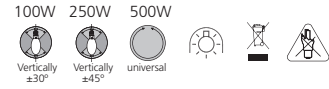


| HSL-BW | 50W | 80W | 125W | 250W | 400W | 700W | 1000W |
|--------|-----|-----|------|------|------|------|-------|
| L | 130 | 166 | 178 | 228 | 292 | 357 | 411 |
| D | 56 | 71 | 76 | 91 | 122 | 152 | 167 |





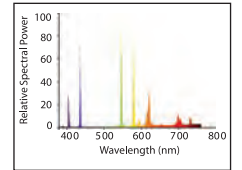
- Range of self-ballasted high pressure mercury lamps
- Direct plug-in replacement for incandescent, with mains voltage operation
- Extremely low system cost as no control gear is required
- Reliable starting down to -18°C
- Pleasant white light with good colour rendering index (Ra60)
- Improved lighting levels over incandescent in industrial and exterior environments



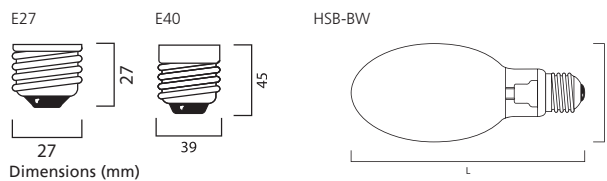
HSB-BW Bright White Blended

| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | Packing Qty |
|--|------------------|----------|-------------|-----|-----------------|-------------|
| HSB-BW Bright White Blended Elliptical 230V | | | | | | |
| 0020414 | HSB-BW 160W 230V | 160 | Coated | E27 | 3500 | 40 |
| 0020415 | HSB-BW 250W 230V | 250 | Coated | E40 | 3500 | 12 |
| 0020456 | HSB-BW 500W 230V | 500 | Coated | E40 | 3500 | 12 |
| HSB-BW Bright White Blended Elliptical 240V | | | | | | |
| 0020475 | HSB-BW 160W 240V | 160 | Coated | E27 | 3500 | 40 |
| 0020477 | HSB-BW 250W 240V | 250 | Coated | E40 | 3500 | 12 |

Mercury HSB-BW (Blended)



| HSB-BW E27 | 160W | 500W | |
|------------|------|------|------|
| L | 178 | - | |
| D | 76 | - | |
| HSB-BW E40 | 160W | 250W | 500W |
| L | - | 228 | 292 |
| D | - | 91 | 122 |





- Range of monochromatic low pressure sodium discharge lamps
- Highest efficacy available – up to 183 lm/W
- Monochromatic warm yellow light
- Radiates light in the most effective part of the visible spectrum
- Road lighting with maximum light levels with minimum energy costs
- Pedestrian crossing lighting for contrast with mercury or fluorescent sources

SLP 18/35/55W

Base up
±110°

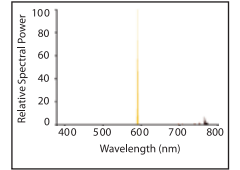
SLP 90/135/180W

Horizontally
±20°

SLP

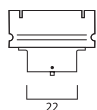
| Code | Description | Watt (W) | Lamp Finish | Cap | Colour Temp (K) | Packing Qty |
|--------------------|-------------|----------|-------------|-------|-----------------|-------------|
| SLP Tubular | | | | | | |
| 0020528 | SLP 18W | 18 | Clear | BY22d | 1800 | 12 |
| 0020495 | SLP 35W | 35 | Clear | BY22d | 1800 | 12 |
| 0020496 | SLP 55W | 55 | Clear | BY22d | 1800 | 12 |
| 0020497 | SLP 90W | 90 | Clear | BY22d | 1800 | 12 |
| 0020498 | SLP 135W | 135 | Clear | BY22d | 1800 | 12 |
| 0020499 | SLP 180W | 180 | Clear | BY22d | 1800 | 6 |

Sodium SLP Low Pressure



| SLP | 18W | 35W | 55W | 90W | 135W | 180W |
|-----|-----|-----|-----|-----|------|------|
| L | 216 | 311 | 425 | 528 | 775 | 1120 |
| D | 54 | 54 | 54 | 68 | 68 | 68 |

BY22d





- Remote & Built-In available
- Optimal Lamp operation
- Compliant with all EN regulations
- Over temperature Cut-off
- Low Power Consumption
- ENEC approved
- 220-240V, 50-60 HZ
- XTREME to be used with UrbanWhite lamps



BriteTronic™

| Code | Description | Packing Qty |
|----------------------|---------------------------------|-------------|
| Brite Tronic™ | | |
| 0010940 | BriteTronic™ XTREME 0045 CMO-TW | 12 |
| 0010941 | BriteTronic™ XTREME 0060 CMO-TW | 12 |
| 0010942 | BriteTronic™ XTREME 0090 CMO-TW | 12 |
| 0010943 | BriteTronic™ XTREME 0140 CMO-TW | 12 |
| 0010912 | BriteTronic™ 20W C011 | 15 |
| 0010913 | BriteTronic™ 35/70W C011 (70W) | 15 |
| 0010914 | BriteTronic™ 35W C021 | 15 |
| 0010911 | BriteTronic™ 70W C021 | 15 |





FLUORESCENT TUBES

SYLVANIA

61 T5



66 T8



74 T12



76 T9



77 Cop Safety Starters



78 FS Standard Starters



Fluorescent Tubes

The key benefits of fluorescent lamps are their proven efficiency and long lamp life and their suitability for use with magnetic ballasts or electronic control gear. Sylvania offers a comprehensive range of high-efficiency fluorescent lamps in various lengths, diameters, wattages, colours as well as lamps for a wide range of specialist applications.



T5 Ecoline

The most efficient replacement for standard T5 lamps. Powered by our advanced coating technique which allows reaching higher luminous efficacy while maintaining the same lumen output at a lower power consumption.

T8 Luxline Eco

A range of T8 fluorescent lamps for use with general lighting applications. Intended to replace standard halophosphor T8 lamps, they achieve high colour rendering together with long life and high energy efficiencies, meaning great quality light with low cost to the user and the environment.



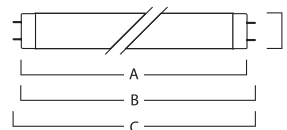
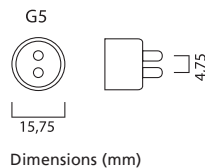
- Up to 10% energy saving on constant current electronic ballast
- Reduction in power consumption of up to 7W
- High luminous efficiency of up to 116 lm/W
- The same lumen output as compared with Standard LUXLINE T5 FHE & FHO lamps
- Up to 10% lower CO2 emissions
- 1:1 replacement of Standard T5 lamps
- For electronic ballast operation only
- High colour rendering (CRI=85, Class B)
- Average lifetime of 24000 hours with pre-heating ballast



T5 Linear Ecoline Fluorescent

| Code | Description | Watt (W) | Replacement Wattage (W) | Length (mm) | CRI | Cap | Colour Temp (K) | Luminous Flux Nominal at 25° | Flux Max 34-38° | Packing Qty |
|----------------------------------|----------------|----------|-------------------------|-------------|-----|-----|-----------------|------------------------------|-----------------|-------------|
| T5 High Efficiency Series | | | | | | | | | | |
| 0002902 | FHE-13W/T5/830 | 13 | 14 | 549 | 85 | G5 | 3000 | 1230 | 1350 | 25 |
| 0002901 | FHE-13W/T5/840 | 13 | 14 | 549 | 85 | G5 | 4000 | 1230 | 1350 | 25 |
| 0002926 | FHE-19W/T5/830 | 19 | 21 | 849 | 85 | G5 | 3000 | 1910 | 2100 | 25 |
| 0002925 | FHE-19W/T5/840 | 19 | 21 | 849 | 85 | G5 | 4000 | 1910 | 2100 | 25 |
| 0002906 | FHE-25W/T5/830 | 25 | 28 | 1149 | 85 | G5 | 3000 | 2640 | 2900 | 25 |
| 0002905 | FHE-25W/T5/840 | 25 | 28 | 1149 | 85 | G5 | 4000 | 2640 | 2900 | 25 |
| 0002910 | FHE-32W/T5/830 | 32 | 35 | 1449 | 85 | G5 | 3000 | 3320 | 3650 | 25 |
| 0002909 | FHE-32W/T5/840 | 32 | 35 | 1449 | 85 | G5 | 4000 | 3320 | 3650 | 25 |
| T5 High Output Series | | | | | | | | | | |
| 0002914 | FHO-20W/T5/830 | 20 | 24 | 549 | 85 | G5 | 3000 | 1700 | 2000 | 25 |
| 0002913 | FHO-20W/T5/840 | 20 | 24 | 549 | 85 | G5 | 4000 | 1700 | 2000 | 25 |
| 0002918 | FHO-35W/T5/830 | 35 | 39 | 849 | 85 | G5 | 3000 | 3220 | 3500 | 25 |
| 0002917 | FHO-35W/T5/840 | 35 | 39 | 849 | 85 | G5 | 4000 | 3220 | 3500 | 25 |
| 0002924 | FHO-50W/T5/830 | 50 | 54 | 1149 | 85 | G5 | 3000 | 4450 | 5000 | 25 |
| 0002923 | FHO-50W/T5/840 | 50 | 54 | 1149 | 85 | G5 | 4000 | 4450 | 5000 | 25 |
| 0002921 | FHO-45W/T5/830 | 45 | 49 | 1149 | 85 | G5 | 3000 | 4165 | 4900 | 25 |
| 0002920 | FHO-45W/T5/840 | 45 | 49 | 1449 | 85 | G5 | 4000 | 4165 | 4900 | 25 |
| 0002928 | FHO-73W/T5/830 | 73 | 80 | 1449 | 85 | G5 | 3000 | 6150 | 7000 | 25 |
| 0002927 | FHO-73W/T5/840 | 73 | 80 | 1449 | 85 | G5 | 4000 | 6150 | 7000 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|-------|--------|--------|--------|-------|
| 24W | 549 | 553.7 | 556.1 | 563.2 | 16 |
| 39W | 849 | 853.7 | 856.1 | 863.2 | 16 |
| 49W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |
| 54W | 1149 | 1153.7 | 1156.1 | 1163.2 | 16 |
| 80W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |





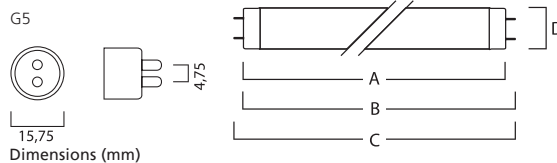
- Energy savings of up to 25% compared to a T8 tube
- T5 FHE Luxline Plus triphosphor lamp ideal solution for new, slim, aesthetic luminaires
- High luminous efficacy of up to 104 lm/W.
- For electronic ballast operation only
- Optimum luminous flux at an ambient temperature of approx 35°C
- Almost constant lumen maintenance throughout the entire lamp life due to Luxline Plus triphosphor technology
- Average life time of 24,000 hours with pre-heating ballast



T5 FHE Luxline® Plus

| Code | Description | Watt (W) | Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux Nominal at 25° (lm) | Flux Max 34-38° (lm) | Packing Qty |
|---|-------------|----------|----------|-------------|-----------------------------|-----------|-----|--------------------------|-----------------------------------|----------------------|-------------|
| T5 FHE Luxline Plus Homelight De Luxe (827) | | | | | | | | | | | |
| 0002798 | FHE 14W/827 | 14 | 86 | 0.165 | 549 | 1B | G5 | 2700 | 1230 | 1350 | 25 |
| 0002799 | FH 21W/827 | 21 | 126 | 0.165 | 849 | 1B | G5 | 2700 | 1910 | 2100 | 25 |
| 0002800 | FHE 28W/827 | 28 | 166 | 0.170 | 1149 | 1B | G5 | 2700 | 2640 | 2900 | 25 |
| 0002801 | FHE 35W/827 | 35 | 205 | 0.175 | 1449 | 1B | G5 | 2700 | 3320 | 3650 | 25 |
| T5 FHE Luxline Plus Warm White De Luxe (830) | | | | | | | | | | | |
| 0002760 | FHE 14W/830 | 14 | 86 | 0.165 | 549 | 1B | G5 | 3000 | 1230 | 1350 | 25 |
| 0002763 | FHE 21W/830 | 21 | 126 | 0.165 | 849 | 1B | G5 | 3000 | 1910 | 2100 | 25 |
| 0002766 | FHE 28W/830 | 28 | 166 | 0.170 | 1149 | 1B | G5 | 3000 | 2640 | 2900 | 25 |
| 0002769 | FHE 35W/830 | 35 | 205 | 0.175 | 1449 | 1B | G5 | 3000 | 3320 | 3650 | 25 |
| T5 FHE Luxline Plus White De Luxe (835) | | | | | | | | | | | |
| 0002787 | FHE 14W/835 | 14 | 86 | 0.165 | 549 | 1B | G5 | 3500 | 1230 | 1350 | 25 |
| 0002788 | FHE 21W/835 | 21 | 126 | 0.165 | 849 | 1B | G5 | 3500 | 1910 | 2100 | 25 |
| 0002789 | FHE 28W/835 | 28 | 166 | 0.170 | 1149 | 1B | G5 | 3500 | 2640 | 2900 | 25 |
| 0002790 | FHE 35W/835 | 35 | 205 | 0.175 | 1449 | 1B | G5 | 3000 | 3320 | 3650 | 25 |
| T5 FHE Luxline Plus Cool White De Luxe (840) | | | | | | | | | | | |
| 0002761 | FHE 14W/840 | 14 | 86 | 0.165 | 549 | 1B | G5 | 4000 | 1230 | 1350 | 25 |
| 0002764 | FHE 21W/840 | 21 | 126 | 0.165 | 849 | 1B | G5 | 4000 | 1910 | 2100 | 25 |
| 0002767 | FHE 28W/840 | 28 | 166 | 0.170 | 1149 | 1B | G5 | 4000 | 2460 | 2900 | 25 |
| 0002770 | FHE 35W/840 | 35 | 205 | 0.175 | 1449 | 1B | G5 | 4000 | 3320 | 2900 | 25 |
| T5 FHE Luxline Plus Daylight De Luxe (865) | | | | | | | | | | | |
| 0002762 | FHE 14W/865 | 14 | 86 | 0.165 | 549 | 1B | G5 | 6500 | 1140 | 1250 | 25 |
| 0002765 | FHE 21W/865 | 21 | 126 | 0.165 | 849 | 1B | G5 | 6500 | 1775 | 1950 | 25 |
| 0002768 | FHE 28W/865 | 28 | 166 | 0.170 | 1149 | 1B | G5 | 6500 | 2460 | 2700 | 25 |
| 0002771 | FHE 35W/865 | 35 | 205 | 0.175 | 1449 | 1B | G5 | 6500 | 3095 | 3400 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|-------|--------|--------|--------|-------|
| 14W | 549 | 553.7 | 556.1 | 563.2 | 16 |
| 21W | 849 | 853.7 | 856.1 | 863.2 | 16 |
| 28W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |
| 35W | 1149 | 1153.7 | 1156.1 | 1163.2 | 16 |





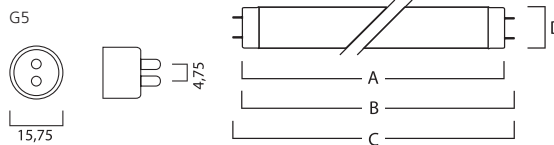
- The T5 FHO Luxline Plus triphosphor lamp is the ideal solution for indirect and direct lighting, i.e. industrial lighting systems with high ceilings
- For applications where a high luminous flux is required (up to 7000 lm per lamp)
- High colour rendering (CRI=85/Class 1B)
- For electronic ballast operation only
- Optimum luminous flux at an ambient temperature of approx 35°C
- Average life time of 24,000 hours with pre-heating ballast



T5 FHO Luxline® Plus

| Code | Description | Watt (W) | Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux Nominal at 25° (lm) | Flux Max 34-38° (lm) | Packing Qty |
|---|-------------|----------|----------|-------------|-----------------------------|-----------|-----|--------------------------|-----------------------------------|----------------------|-------------|
| T5 FHO Luxline Plus Home light De Luxe (827) | | | | | | | | | | | |
| 0002802 | FHO 24W/827 | 24 | 77 | 0.295 | 549 | 1B | G5 | 2700 | 1700 | 2000 | 25 |
| 0002803 | FHO 39W/827 | 39 | 118 | 0.325 | 849 | 1B | G5 | 2700 | 3220 | 3500 | 25 |
| 0002805 | FHO 54W/827 | 54 | 120 | 0.455 | 1149 | 1B | G5 | 2700 | 4450 | 5000 | 25 |
| 0002804 | FHO 49W/827 | 49 | 195 | 0.255 | 1449 | 1B | G5 | 2700 | 4165 | 4900 | 25 |
| T5 FHO Luxline Plus Warm White De Luxe (830) | | | | | | | | | | | |
| 0002772 | FHO 24W/830 | 24 | 77 | 0.295 | 549 | 1B | G5 | 3000 | 1700 | 2000 | 25 |
| 0002775 | FHO 39W/830 | 39 | 118 | 0.325 | 849 | 1B | G5 | 3000 | 3220 | 3500 | 25 |
| 0002781 | FHO 54W/830 | 54 | 120 | 0.455 | 1149 | 1B | G5 | 3000 | 4450 | 5000 | 25 |
| 0002778 | FHO 49W/830 | 49 | 195 | 0.255 | 1449 | 1B | G5 | 3000 | 4165 | 4900 | 25 |
| 0002784 | FHO 80W/830 | 80 | 152 | 0.530 | 1449 | 1B | G5 | 3000 | 6150 | 7000 | 25 |
| T5 FHO Luxline Plus White De Luxe (835) | | | | | | | | | | | |
| 0002791 | FHO 24W/835 | 24 | 77 | 0.295 | 549 | 1B | G5 | 3500 | 1700 | 2000 | 25 |
| 0002792 | FHO 39W/835 | 39 | 118 | 0.325 | 849 | 1B | G5 | 3500 | 3220 | 3500 | 25 |
| 0002794 | FHO 54W/835 | 54 | 120 | 0.455 | 1149 | 1B | G5 | 3500 | 4450 | 5000 | 25 |
| 0002793 | FHO 49W/835 | 49 | 195 | 0.255 | 1449 | 1B | G5 | 3500 | 4165 | 4900 | 25 |
| T5 FHO Luxline Plus Cool White De Luxe (840) | | | | | | | | | | | |
| 0002773 | FHO 24W/840 | 24 | 77 | 0.295 | 549 | 1B | G5 | 4000 | 1700 | 2000 | 25 |
| 0002776 | FHO 39W/840 | 39 | 118 | 0.325 | 849 | 1B | G5 | 4000 | 3220 | 3500 | 25 |
| 0002782 | FHO 54W/840 | 54 | 120 | 0.455 | 1149 | 1B | G5 | 4000 | 4450 | 5000 | 25 |
| 0002777 | FHO 49W/840 | 49 | 195 | 0.255 | 1449 | 1B | G5 | 4000 | 4165 | 4900 | 25 |
| 0002785 | FHO 80W/840 | 80 | 152 | 0.530 | 1449 | 1B | G5 | 4000 | 6150 | 7000 | 25 |
| T5 FHO Luxline Plus Daylight De Luxe (865) | | | | | | | | | | | |
| 0002774 | FHO 24W/865 | 24 | 77 | 0.295 | 549 | 1B | G5 | 6500 | 1570 | 1850 | 25 |
| 0002779 | FHO 39W/865 | 39 | 118 | 0.325 | 849 | 1B | G5 | 6500 | 2990 | 3250 | 25 |
| 0002783 | FHO 54W/865 | 54 | 120 | 0.455 | 1149 | 1B | G5 | 6500 | 4050 | 4550 | 25 |
| 0002780 | FHO 49W/865 | 49 | 195 | 0.255 | 1449 | 1B | G5 | 6500 | 3950 | 4650 | 25 |
| 0002786 | FHO 80W/865 | 80 | 152 | 0.530 | 1449 | 1B | G5 | 6500 | 5700 | 6650 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|-------|--------|--------|--------|-------|
| 24W | 549 | 553.7 | 556.1 | 563.2 | 16 |
| 39W | 849 | 853.7 | 856.1 | 863.2 | 16 |
| 49W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |
| 54W | 1149 | 1153.7 | 1156.1 | 1163.2 | 16 |
| 80W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |



Dimensions (mm)



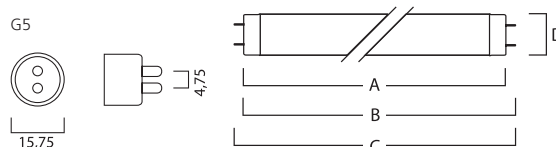
- 16mm fluorescent lamps in Standard and Luxline Plus colours
- For applications where space is limited
- Ideal solution for furniture, showcases, bathroom cabinets, transportation and leisure applications
- For higher colour rendering index we recommend fluorescent T5 Short Luxline Plus (6W and 8W)



T5 Standard Luxline® Plus

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|--|-------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|--------------------------|--------------------|-------------|
| T5 Standard Warm White (29-530) | | | | | | | | | | |
| 0000014 | F6W/29-530 | 6 | 42 | 0.160 | 212 | 3 | G5 | 3000 | 280 | 25 |
| 0000382 | F8W/29-530 | 8 | 56 | 0.145 | 288 | 3 | G5 | 3000 | 400 | 25 |
| 0000032 | F13W/29-530 | 13 | 95 | 0.165 | 517 | 3 | G5 | 3000 | 880 | 25 |
| T5 Standard White (35-535) | | | | | | | | | | |
| 0000002 | F4W/35-535 | 4 | 29 | 0.170 | 136 | 3 | G5 | 3500 | 140 | 25 |
| 0000012 | F6W/35-535 | 6 | 42 | 0.160 | 212 | 3 | G5 | 3500 | 280 | 25 |
| 0000020 | F8W/35-535 | 8 | 56 | 0.145 | 288 | 3 | G5 | 3500 | 400 | 25 |
| 0000030 | F13W/35-535 | 13 | 95 | 0.165 | 517 | 3 | G5 | 3500 | 880 | 25 |
| T5 Standard Cool White (33-640) | | | | | | | | | | |
| 0000003 | F4W/33-640 | 4 | 29 | 0.170 | 136 | 2B | G5 | 4000 | 140 | 25 |
| 0000013 | F6W/33-640 | 6 | 42 | 0.160 | 212 | 2B | G5 | 4000 | 280 | 25 |
| 0000021 | F8W/33-640 | 8 | 56 | 0.145 | 288 | 2B | G5 | 4000 | 400 | 25 |
| 0000031 | F13W/33-640 | 13 | 95 | 0.165 | 517 | 2B | G5 | 4000 | 880 | 25 |
| T5 Standard Daylight (54-765) | | | | | | | | | | |
| 0000001 | F4W/54-765 | 4 | 29 | 0.170 | 136 | 2A | G5 | 6500 | 115 | 25 |
| 0000011 | F6W/54-765 | 6 | 42 | 0.160 | 212 | 2A | G5 | 6500 | 240 | 25 |
| 0000019 | F8W/54-765 | 8 | 56 | 0.145 | 288 | 2A | G5 | 6500 | 340 | 25 |
| 0000029 | F13W/54-765 | 13 | 95 | 0.165 | 517 | 2A | G5 | 6500 | 750 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|-------|-------|-------|-------|-------|
| 4W | 135.9 | 140.6 | 143.0 | 150.1 | 16 |
| 6W | 212.1 | 216.8 | 219.2 | 226.3 | 16 |
| 8W | 288.3 | 293.0 | 295.4 | 302.5 | 16 |
| 13W | 516.9 | 521.6 | 524.0 | 531.1 | 16 |



Dimensions (mm)



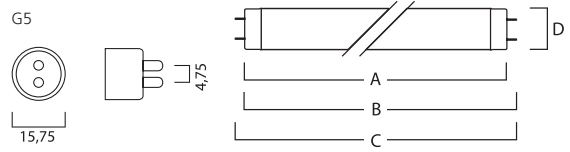
- 16mm fluorescent lamps in Standard and Luxline Plus colours
- For exclusive use in emergency lighting luminaires
- Only for operation by battery with electronic ballast (low lamp currents)
- Reliable ignition with compatible ballast
- Luminous flux dependant on individual ballast



T5 Emergency

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Single Lamp Current (A) | Cap to Cap Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Packing Qty |
|---|-------------|----------|-----------------------|-------------------------|------------------------|-----------|-----|--------------------------|-------------|
| T5 Emergency Cool White (33-640) | | | | | | | | | |
| 0001900 | F6W/33-640 | 6 | 48 | 0.040 | 212 | 2B | G5 | 4000 | 200 |
| 0001905 | F8W/33-640 | 8 | 71 | 0.040 | 288 | 2B | G5 | 4000 | 200 |
| T5 Emergency Daylight (54-765) | | | | | | | | | |
| 0001902 | F6W/54-765 | 6 | 48 | 0.040 | 212 | 2A | G5 | 6500 | 200 |
| 0001908 | F8W/54-765 | 8 | 71 | 0.040 | 288 | 2A | G5 | 6500 | 200 |
| T5 Emergency Cool White De Luxe (840) Luxline Plus | | | | | | | | | |
| 0001909 | F6W/840 | 6 | 48 | 0.040 | 212 | 1B | G5 | 4000 | 200 |
| 0001907 | F8W/840 | 8 | 71 | 0.040 | 288 | 1B | G5 | 4000 | 200 |

| | A max | B min | B max | C max | D nom |
|----|-------|-------|-------|-------|-------|
| 6W | 212.1 | 216.8 | 219.2 | 226.3 | 16 |
| 8W | 288.3 | 293.0 | 295.4 | 302.5 | 16 |



Dimensions (mm)



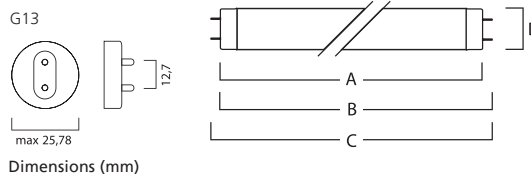
- Intended to replace standard halophosphor T8 lamps offering 10% energy saving with no loss in light output
- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Good colour rendering: (CRI=80-89/Class 1B)
- High luminous efficacy
- Operates on conventional and electronic ballasts
- Meets the lighting requirements as specified in the European Standard EN 12464-1 for workplaces
- Retrofit with standard T8 lamps
- Average rated life 15000 hours with pre-heating ballast



T8 Luxline® Eco

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|--|-----------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|--------------------------|--------------------|-------------|
| T8 Luxline Eco Warm White De Luxe (830) | | | | | | | | | | |
| 0001605 | F32W/830 T8 ECO | 32 | 91 | 0.450 | 1200 | 1B | G13 | 3000 | 2900 | 25 |
| 0001609 | F51W/830 T8 ECO | 51 | 96 | 0.700 | 1500 | 1B | G13 | 3000 | 4700 | 25 |
| T8 Luxline Eco Cool White De Luxe (840) | | | | | | | | | | |
| 0001607 | F32W/840 T8 ECO | 32 | 91 | 0.450 | 1200 | 1B | G13 | 4000 | 2900 | 25 |
| 0001610 | F51W/840 T8 ECO | 51 | 96 | 0.700 | 1500 | 1B | G13 | 4000 | 4700 | 25 |
| T8 Luxline Eco Cool White De Luxe (865) | | | | | | | | | | |
| 0001608 | F32W/865 T8 ECO | 32 | 91 | 0.450 | 1200 | 1B | G13 | 6500 | 2750 | 25 |
| 0001612 | F51W/865 T8 ECO | 51 | 96 | 0.700 | 1500 | 1B | G13 | 6500 | - | 25 |

| | A max | B min | B max | C max | D nom |
|-----|--------|--------|--------|--------|-------|
| 32W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 51W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |





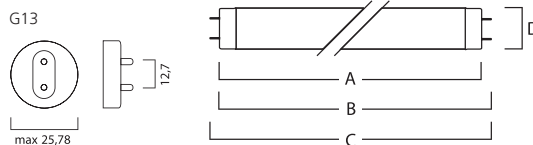
- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Good colour rendering:(CRI=80-89/Class 1B)
- High luminous efficacy
- Operates on conventional and electronic ballasts
- Meets the lighting requirements as specified in the European Standard EN 12464-1 for workplaces
- Average rated life 20000 hours with pre-heating ballast



T8Luxline® Plus

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---|-------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|--------------------------|--------------------|-------------|
| T8 LuxLine Plus Homelight De Luxe (827) | | | | | | | | | | |
| 0001505 | F18W/827 | 18 | 57 | 0.370 | 590 | 1B | G13 | 2700 | 1350 | 25 |
| 0001514 | F36W/827 | 36 | 103 | 0.430 | 1200 | 1B | G13 | 2700 | 3350 | 25 |
| 0001535 | F58W/827 | 58 | 110 | 0.670 | 1500 | 1B | G13 | 2700 | 5200 | 25 |
| 0000582 | F70W/827 | 70 | 128 | 0.700 | 1764 | 1B | G13 | 2700 | 6000 | 25 |
| T8 LuxLine Plus Warm White De Luxe (830) | | | | | | | | | | |
| 0001501 | F18W/830 | 18 | 57 | 0.370 | 590 | 1B | G13 | 3000 | 1350 | 25 |
| 0001511 | F36W/830 | 36 | 103 | 0.430 | 1200 | 1B | G13 | 3000 | 3350 | 25 |
| 0001531 | F58W/830 | 58 | 110 | 0.670 | 1500 | 1B | G13 | 3000 | 5200 | 25 |
| 0001093 | F70W/830 | 70 | 128 | 0.700 | 1764 | 1B | G13 | 3000 | 6000 | 25 |
| T8 LuxLine Plus White De Luxe (835) | | | | | | | | | | |
| 0000580 | F18W/835 | 18 | 57 | 0.370 | 590 | 1B | G13 | 3500 | 1350 | 25 |
| 0000578 | F36W/835 | 36 | 103 | 0.430 | 1200 | 1B | G13 | 3500 | 3350 | 25 |
| 0001394 | F58W/835 | 58 | 110 | 0.670 | 1500 | 1B | G13 | 3500 | 5200 | 25 |
| 0000581 | F70W/835 | 70 | 128 | 0.700 | 1764 | 1B | G13 | 3500 | 6000 | 25 |
| T8 LuxLine Plus Cool White De Luxe (840) | | | | | | | | | | |
| 0001500 | F18W/840 | 18 | 57 | 0.370 | 590 | 1B | G13 | 4000 | 1350 | 25 |
| 0001510 | F36W/840 | 36 | 103 | 0.430 | 1200 | 1B | G13 | 4000 | 3500 | 25 |
| 0001530 | F58W/840 | 58 | 110 | 0.670 | 1500 | 1B | G13 | 4000 | 5200 | 25 |
| 0001094 | F70W/840 | 70 | 128 | 0.700 | 1764 | 1B | G13 | 4000 | 6000 | 25 |
| T8 LuxLine Plus Daylight De Luxe (865) | | | | | | | | | | |
| 0001502 | F18W/865 | 18 | 57 | 0.370 | 590 | 1B | G13 | 6500 | 1300 | 25 |
| 0001512 | F36W/865 | 36 | 103 | 0.430 | 1200 | 1B | G13 | 6500 | 3250 | 25 |
| 0001532 | F58W/865 | 58 | 110 | 0.670 | 1500 | 1B | G13 | 6500 | 5000 | 25 |
| 0001095 | F70W/865 | 70 | 128 | 0.700 | 1764 | 1B | G13 | 6500 | 5700 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|--------|--------|--------|--------|-------|
| 18W | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |
| 70W | 1763.8 | 1768.5 | 1770.9 | 1778.0 | 26 |



Dimensions (mm)



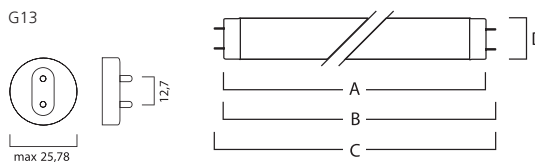
- Multi-phosphor coating for highest colour rendering
- Make colours look natural and vibrant
- Particularly useful in applications where colour rendering is a benefit - eg shops to help make merchandise look more attractive
- Excellent colour rendering (CRI=90-99 / class 1A)
- Average lifetime of 20,000 hours with pre-heating ballast)



T8 Luxline® SuperColour

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|--|-------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|--------------------------|--------------------|-------------|
| T8 Luxline Supercolour Cool White De Luxe (940) | | | | | | | | | | |
| 0001580 | F18W/940 | 18 | 57 | 0.370 | 590 | 1A | G13 | 4000 | 1200 | 25 |
| 0001581 | F36W/940 | 36 | 103 | 0.430 | 1200 | 1A | G13 | 4000 | 2900 | 25 |
| 0001582 | F58W/940 | 58 | 110 | 0.670 | 1500 | 1A | G13 | 4000 | 4600 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|--------|--------|--------|--------|-------|
| 18W | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |



Dimensions (mm)



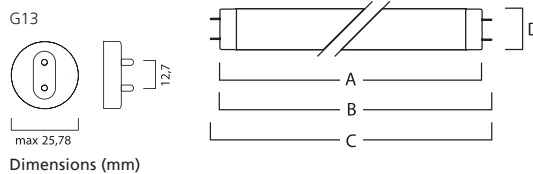
- Luxline Plus ShatterProof lamps provide protection against lamp breakages, where broken lamps could cause significant problem (e.g. clean rooms, kitchens, schools)
- Protection against splinters and other lamp parts
- Sleeve is made of FEP - which can easily withstand high ambient temperature, suitable for open and enclosed fixtures
- Excellent light transmission with no reductions in light output
- Average lifetime of 20,000 hours with pre-heating ballast)



Luxline® Plus ShatterProof

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------------|---------------------------|----------|-----------------------|-------------|------------------------|-----------|-----|--------------------------|--------------------|-------------|
| 001493 | F36W/840 ShatterProof FEP | 36 | 103 | 0.430 | 1200 | 1A | G13 | 4000 | 2900 | 25 |
| 001494 | F36W/840 ShatterProof FEP | 58 | 110 | 0.670 | 1500 | 1A | G13 | 4000 | 4600 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|--------|--------|--------|--------|-------|
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |



Dimensions (mm)



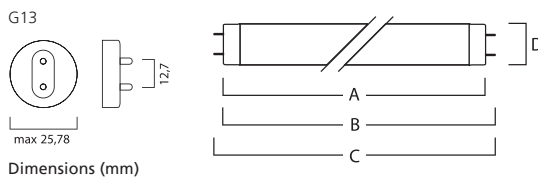
- Standard T8 fluorescent lamps with a wide range of special wattages in standard colours
- Colour rendering: (CRI=50-79/Class 3-2A)
- Suitable for areas where people are not engaged in work for long periods of time (EN 12464-1)
- For new installations or replacements we recommend T8 Luxline Plus where possible
- Not intended for use in general lighting applications. Intended for special applications including furniture, electrical distribution cabinets, signage and train carriages



T8 Special Length Standard

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|--|-------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|-----------------|--------------------|-------------|
| T8 Special Length Warm White (29-530) | | | | | | | | | | |
| 0000040 | F14W/29-530 | 14 | 38 | 0.395 | 361 | 3 | G13 | 3000 | 700 | 25 |
| T8 Special Length Cool White (33-640) | | | | | | | | | | |
| 0000039 | F14W/33-640 | 14 | 38 | 0.395 | 361 | 2B | G13 | 4000 | 700 | 25 |
| T8 Special Length Daylight (54-765) | | | | | | | | | | |
| 0000037 | F14W/54-765 | 14 | 38 | 0.395 | 361 | 2A | G13 | 6500 | 650 | 25 |

| | A max | B min | B max | C max | D nom |
|--------|-------|-------|-------|-------|-------|
| 14W | 361.2 | 365.8 | 368.3 | 375.4 | 26 |
| 36W/1m | 970.0 | 974.1 | 977.1 | 984.2 | 26 |



Dimensions (mm)



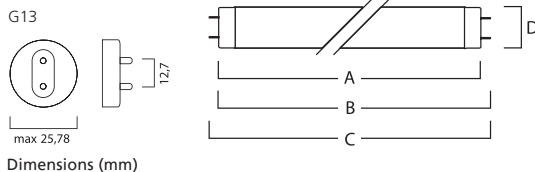
- Standard T8 fluorescent lamps with a wide range of special wattages in standard colours
- Colour rendering: (CRI=50-79/Class 3-2A)
- Suitable for areas where people are not engaged in work for long periods of time (EN 12464-1)
- For new installations or replacements we recommend T8 Luxline Plus where possible
- Not intended for use in general lighting applications. Intended for special applications including furniture, electrical distribution cabinets, signage and train carriages
- Average lifetime of 20,000 hours with pre-heating ballast).



T8 Luxline® Plus Special Length

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI | Cap Group | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---|--------------|----------|-----------------------|-------------|-----------------------------|-----|-----------|--------------------------|--------------------|-------------|
| T8 Luxline Plus Special Length Warm White Deluxe (830) | | | | | | | | | | |
| 0001853 | F15W/830 | 15 | 55 | 0.310 | 438 | 1B | G13 | 3000 | 950 | 25 |
| 0000870 | F16W/830 | 16 | 95 | 0.200 | 720 | 1B | G13 | 3000 | 1200 | 25 |
| 0001079 | F30W/830 | 30 | 96 | 0.365 | 895 | 1B | G13 | 3000 | 2400 | 25 |
| T8 Luxline Plus Special Length White Deluxe (835) | | | | | | | | | | |
| 0000566 | F15W/835 | 15 | 55 | 0.310 | 438 | 1B | G13 | 3500 | 950 | 25 |
| 0000872 | F16W/835 | 16 | 95 | 0.200 | 720 | 1B | G13 | 3500 | 1200 | 25 |
| 0001077 | F30W/835 | 30 | 96 | 0.365 | 895 | 1B | G13 | 3500 | 2400 | 25 |
| T8 Luxline Plus Special Length Cool White Deluxe (840) | | | | | | | | | | |
| 0000567 | F15W/840 | 15 | 55 | 0.310 | 438 | 1B | G13 | 4000 | 950 | 25 |
| 0000871 | F16W/840 | 16 | 95 | 0.200 | 720 | 1B | G13 | 4000 | 1200 | 25 |
| 0000874 | F25W/28"/840 | 25 | 80 | 0.380 | 691/28 | 1B | G13 | 4000 | 2000 | 25 |
| 0000877 | F25W/30"/840 | 25 | 84 | 0.360 | 742/30 | 1B | G13 | 4000 | 2200 | 25 |
| 0000878 | F25W/33"/840 | 25 | 90 | 0.340 | 818/33 | 1B | G13 | 4000 | 2300 | 25 |
| 0001080 | F30W/840 | 30 | 96 | 0.365 | 895 | 1B | G13 | 4000 | 2400 | 25 |
| 0001504 | F36W/1M/840 | 36 | 80 | 0.560 | 970 | 1B | G13 | 4000 | 3200 | 25 |
| 0001520 | F38W/840 | 38 | 104 | 0.430 | 1047 | 1B | G13 | 4000 | 3200 | 25 |
| T8 Luxline Special Length Daylight Deluxe (865) | | | | | | | | | | |
| 0000947 | F15W/865 | 15 | 55 | 0.310 | 438 | 1B | G13 | 6500 | 900 | 25 |
| T8 Luxline Plus Special Length Daylight Deluxe (865) | | | | | | | | | | |
| 0000875 | F25W/28"/865 | 25 | 80 | 0.380 | 691/28 | 1B | G13 | 6500 | 1800 | 25 |
| 0000879 | F25W/33"/865 | 25 | 90 | 0.340 | 818/33 | 1B | G13 | 6500 | 2100 | 25 |
| 0001078 | F30W/865 | 30 | 96 | 0.365 | 895 | 1B | G13 | 6500 | 2300 | 25 |

| | A max | B min | B max | C max | D nom |
|---------|--------|--------|--------|--------|-------|
| 15W | 437.4 | 442.1 | 444.5 | 451.6 | 26 |
| 16W | 720.0 | 724.7 | 727.1 | 734.2 | 26 |
| 25W 28" | 720.0 | 724.7 | 727.1 | 734.2 | 26 |
| 25W 30" | 742.2 | 746.9 | 749.3 | 756.4 | 26 |
| 25W 33" | 818.4 | 823.1 | 825.5 | 832.6 | 26 |
| 30W | 894.6 | 899.3 | 901.7 | 908.8 | 26 |
| 36W | 970.0 | 974.1 | 977.1 | 984.2 | 26 |
| 38W | 1047.0 | 1051.7 | 1054.1 | 1061.2 | 26 |





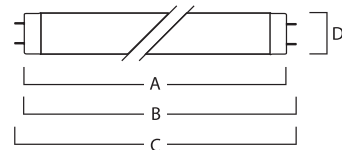
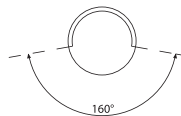
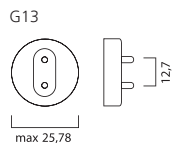
- T8 fluorescent lamp with a 200° internal reflector
- Directional control of light
- Approximately 75% of light is directed through a beam angle of 160°
- For optimising existing luminaires with no reflector
- High colour rendering due to Luxline Plus triphosphor (Class 1B)
- Average lifetime of 20,000 hours with pre-heating ballast



T8 Luxline® Plus Reflector

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Colour | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|----------------------------------|-------------|----------|-----------------------|-------------|-------------------|-----------|-----|--------------------------|--------------------|-------------|
| T8 LuxLine Plus Reflector | | | | | | | | | | |
| 0001537 | FR58W/840 | 58 | 110 | 0.700 | Cool White Deluxe | 1B | G13 | 4000 | 5200 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|--------|--------|--------|--------|-------|
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |



Dimensions (mm)



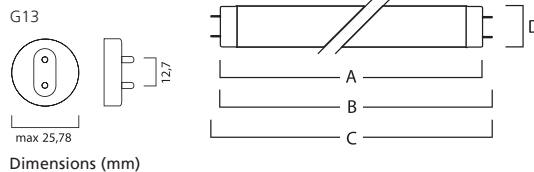
- Range of T8 fluorescent lamps with a coloured phosphor coating
- Available in red, yellow, green and blue colours
- Used to create special lighting effects in shop windows, bars, fairground attractions, dance halls and discotheques



T8 Coloured

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | Colour | Cap | Luminous Flux (lm) | Packing Qty |
|--------------------|-------------|----------|-----------------------|-------------|-----------------------------|--------|-----|--------------------|-------------|
| T8 Coloured | | | | | | | | | |
| 0002572 | F18W/T8/R | 18 | 57 | 0.370 | 590 | Red | G13 | 30 | 25 |
| 0002573 | F36W/T8/R | 36 | 103 | 0.430 | 1200 | Red | G13 | 70 | 25 |
| 0002574 | F58W/T8/R | 58 | 110 | 0.670 | 1500 | Red | G13 | 100 | 25 |
| 0002561 | F18W/T8/Y | 18 | 57 | 0.370 | 590 | Yellow | G13 | 750 | 25 |
| 0002565 | F36W/T8/Y | 36 | 103 | 0.430 | 1200 | Yellow | G13 | 1550 | 25 |
| 0002569 | F58W/T8/Y | 58 | 110 | 0.670 | 1500 | Yellow | G13 | 2500 | 25 |
| 0002562 | F18W/T8/G | 18 | 57 | 0.370 | 590 | Green | G13 | 1200 | 25 |
| 0002566 | F36W/T8/G | 36 | 103 | 0.430 | 1200 | Green | G13 | 2800 | 25 |
| 0002570 | F58W/T8/G | 58 | 110 | 0.670 | 1500 | Green | G13 | 4000 | 25 |
| 0002563 | F18W/T8/B | 18 | 57 | 0.370 | 590 | Blue | G13 | 300 | 25 |
| 0002567 | F36W/T8/B | 36 | 103 | 0.430 | 1200 | Blue | G13 | 700 | 25 |
| 0002571 | F58W/T8/B | 58 | 110 | 0.670 | 1500 | Blue | G13 | 1000 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|--------|--------|--------|--------|-------|
| 18W | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |





- Wide range of standard T12 fluorescent lamps in various wattages and colours
- For use in luminaires and installations where T8 Standard is not suitable
- RS: Rapid Start in accordance with EN 60081



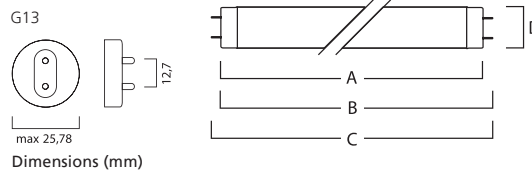
T12 Standard

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---|----------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|--------------------------|--------------------|-------------|
| T12 Standard Warm White (29-530) | | | | | | | | | | |
| 0001551 | F20W/29-530 RS | 20 | 57 | 0.370 | 590 | 3 | G13 | 3000 | 1200 | 25 |
| 0001554 | F40W/29-530 RS | 40 | 103 | 0.430 | 1200 | 3 | G13 | 3000 | 3000 | 25 |
| 0001557 | F65W/29-530 | 65 | 110 | 0.670 | 1500 | 3 | G13 | 3000 | 4800 | 25 |

T12 / Luxline® Plus

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---|----------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|--------------------------|--------------------|-------------|
| T12 Standard Cool White (33-640) | | | | | | | | | | |
| 0001550 | F20W/33-640 RS | 20 | 57 | 0.370 | 590 | 2B | G13 | 4000 | 1200 | 25 |
| 0001553 | F40W/33-640 RS | 40 | 103 | 0.430 | 1200 | 2B | G13 | 4000 | 3000 | 25 |
| 0001556 | F65W/33-640 RS | 65 | 110 | 0.670 | 1500 | 2B | G13 | 4000 | 4800 | 25 |
| T12 Standard Daylight (54-765) | | | | | | | | | | |
| 0001559 | F20W/54-765 RS | 20 | 57 | 0.370 | 590 | 2A | G13 | 6500 | 1050 | 25 |
| 0001560 | F40W/54-765 RS | 40 | 103 | 0.430 | 1200 | 2A | G13 | 6500 | 2500 | 25 |

| | A max | B min | B max | C max | D nom |
|--------|--------|--------|--------|--------|-------|
| 20W | 589.8 | 594.5 | 596.9 | 604.0 | 38 |
| 25W/1m | 970.0 | 974.7 | 977.1 | 984.2 | 38 |
| 40W/1m | 970.0 | 974.7 | 977.1 | 984.2 | 38 |
| 40W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 38 |
| 65W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 38 |
| 65/80W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 38 |
| 75/85W | 1763.8 | 1768.5 | 1770.9 | 1778.0 | 38 |
| 125W | 2374.3 | 2379.0 | 2381.4 | 2388.5 | 38 |
| 125W | 2374.3 | 2379.0 | 2381.4 | 2388.5 | 38 |





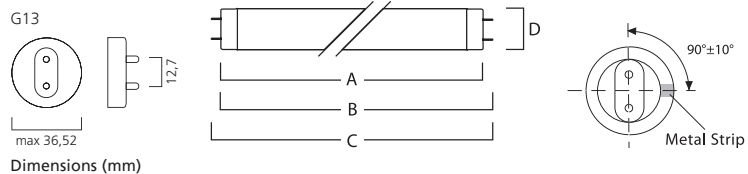
- T12 fluorescent lamp with a resistor cap, 3.6V electrodes and an external ignition stripe
- Instant and flicker-free start
- For rapid start or semi-resonant ballast
- Dimmable T12 lamp



T12 IRS

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|------------------------------------|-----------------|----------|-----------------------|-------------|-----------------------------|-----------|-----|--------------------------|--------------------|-------------|
| T12 IRS Warm White (29-530) | | | | | | | | | | |
| 0000424 | F20W/29-530-IRS | 20 | 57 | 0.370 | 590 | 3 | G13 | 3000 | 1200 | 25 |
| 0000431 | F40W/29-530-IRS | 40 | 103 | 0.430 | 1200 | 3 | G13 | 3000 | 3000 | 25 |
| T12 IRS Cool White (33-640) | | | | | | | | | | |
| 0000423 | F20W/33-640-IRS | 20 | 57 | 0.370 | 590 | 2B | G13 | 4000 | 1200 | 25 |
| 0000430 | F40W/33-640-IRS | 40 | 103 | 0.430 | 1200 | 2B | G13 | 4000 | 3000 | 25 |
| 0000438 | F65W/33-640-IRS | 65 | 110 | 0.670 | 1500 | 2B | G13 | 4000 | 4800 | 25 |

| | A max | B min | B max | C max | D nom |
|-----|--------|--------|--------|--------|-------|
| 20W | 589.8 | 594.5 | 596.9 | 604.0 | 38 |
| 40W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 38 |
| 65W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 38 |





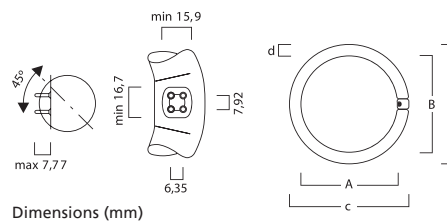
- T9 circular fluorescent lamps
- Suitable in a wide range of round and square shaped luminaires for various purposes
- For commercial and domestic lighting
- Good colour rendering (CRI=80-89 / class 1B)
- High luminous efficacy



T9 Circline Plus

| Code | Description | Watt (W) | Nominal Lamp Volt (V) | Current (A) | Cap to Cap Lamp Length (mm) | CRI Group | Cap | Luminous Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|--|-------------|----------|-----------------------|-------------|-----------------------------|-----------|------|--------------------------|--------------------|-------------|
| T9 Circline Plus Warm White De Luxe (830) | | | | | | | | | | |
| 0001960 | FC22/830 | 22 | 62 | 0.400 | 216 Ø | 1B | G10q | 3000 | 1300 | 12 |
| 0001963 | FC32/830 | 22 | 84 | 0.450 | 305 Ø | 1B | G10q | 3000 | 2300 | 12 |
| 0001966 | FC40/830 | 22 | 115 | 0.415 | 406 Ø | 1B | G10q | 3000 | 3000 | 12 |
| T9 Circline Plus Cool White De Luxe (840) | | | | | | | | | | |
| 0001961 | FC22/840 | 32 | 62 | 0.400 | 216 Ø | 1B | G10q | 4000 | 1300 | 12 |
| 0001964 | FC32/840 | 32 | 84 | 0.450 | 305 Ø | 1B | G10q | 4000 | 2300 | 12 |
| 0001967 | FC40/840 | 32 | 115 | 0.415 | 406 Ø | 1B | G10q | 4000 | 3000 | 12 |
| T9 Circline Plus Daylight De Luxe (865) | | | | | | | | | | |
| 0001962 | FC22/865 | 40 | 62 | 0.400 | 216 Ø | 1B | G10q | 6500 | 1250 | 12 |
| 0001965 | FC32/865 | 40 | 84 | 0.450 | 305 Ø | 1B | G10q | 6500 | 2300 | 12 |
| 0001968 | FC40/865 | 40 | 115 | 0.415 | 406 Ø | 1B | G10q | 6500 | 2900 | 12 |

| | A max | A min | B max | B min | C or D min | C or D max | D min | D max |
|-----|-------|-------|-------|-------|------------|------------|-------|-------|
| 22W | 149.1 | 155.6 | 147.6 | 157.2 | 203.2 | 215.9 | 26.2 | 30.9 |
| 32W | 239.7 | 246.1 | 236.5 | 246.1 | 292.1 | 304.8 | 26.2 | 30.9 |
| 40W | 341.3 | 347.7 | 338.1 | 347.7 | 393.7 | 406.4 | 26.2 | 30.9 |





- Quick-start without increasing the starting current
- Immediate switch off in case of flickering or defective lamp (end of life)
- Prevents overheating of the ballast
- Extended life compared to standard starters
- Reduced maintenance cost due to longer life time
- For single lamp operation
- Testhouse approved and ENEC/VDE marked



COP Safety Starters

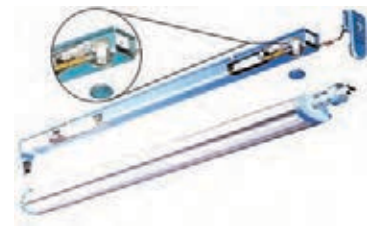
| Code | Description | Watt (W) | Volt (V) | Lamp Type | Circuit | Packing Qty |
|----------------|-------------|------------|----------|-----------|---------|-------------|
| 0024471 | COP-11A | 36,58 | 220-240 | T8 | Single | 25/100/1000 |
| | | 40, 65 | 220-240 | T12 | Single | |
| | | 32,40, 60 | 220-240 | Circline | Single | |
| | | 18, 24, 36 | 220-240 | CF-L | Single | |



- Reliable and fast starting
- Suitable for temperatures from -20°C to +80°C
- For single and twin lamp operation
- Testhouse approved and ENEC/VDE marked



FS Starter Starters



Starter in Fluorescent Lamp Circuit

| Code | Description | Watt (W) | Volt (V) | Lamp Type | Circuit | Packing Qty |
|-----------------------------|-------------|--------------------------------|----------|-----------|------------------------|-------------|
| FS Standard Starters | | | | | | |
| 0024434 | FS-11 | 4, 6, 8, 13 | 220-240 | T5 | Single | 25/500/100 |
| | | 14, 15, 16, 18, 25, 36, 38, 58 | 220-240 | T8 | Single | Single |
| | | 20, 40, 65 | 220-240 | T12 | Single | |
| | | 22, 32 | 220-240 | Circline | Single | |
| | | 18, 24, 36 | 220-240 | CF-L | Single | |
| 0024440 | FS-11 | As Above | As Above | As Above | Single/Industrial Pack | 500/1000 |
| 0024433 | FS-22 | 4, 6, 8 | 120 | T12 | Single | 25/500/1000 |
| | | 4, 6, 8 | 230 | T12 | Twin | |
| | | 14, 15, 18 | 120 | T8 | Single | |
| | | 14, 15, 18 | 230 | T8 | Twin | |
| | | 20 | 120 | T12 | Single | |
| | | 20 | 230 | T12 | Twin | |
| | | 22 | 120 | Circline | Single | |
| | | 22 | 230 | Circline | Twin | |
| | | 18 | 120 | CF-L | Single | |
| | | 18 | 230 | CF-L | Twin | |
| 0024437 | FS-22 | As Above | As Above | As Above | Single/Industrial Pack | 500/1000 |
| | | 70 | 220-240 | T8 | Single | 5/20/1500 |



G

A

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NEU

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TDI

A160

CITY MOTORS



COMPACT FLUORESCENT

83 Mini-Lynx® Sticks



86 Mini-Lynx® Spirals



88 Power-Lynx



89 Mini-Lynx® Classico



90 Mini-Lynx® Compact GLS



91 Mini-Lynx® Compact Ball



92 Mini-Lynx® Candle



93 Mini-Lynx® Globe



94 Mini-Lynx® Reflectors



96 Mini-Lynx® PAR 30 & 38



97 Micro-Lynx®



99 Lynx®



Compact Fluorescent Lamps

Sylvania's Compact Fluorescent Lamps are available in a wide range of shapes and formats to meet the growing need for compact, energy efficient and long lasting lamps, coupled with excellent colour rendering. They are the result of traditional fluorescent lamp making skills which, when combined with an integral state-of-the-art electronic ballast and starter circuit create a range of retrofit lamps that replace incandescent mains voltage filament lamps. Compact fluorescent lamps are also available without integral ballast, for use in traditional magnetic ballast fixtures or in the new generation of high efficiency, electronic ballast, downlights and luminaires.

As the phasing out of incandescent lamps progresses across Europe, alternatives are required. Sylvania's CFLi range, which meets – or exceeds – all relevant regulations, can be trusted to offer consumers affordable, efficient and effective lamps in a wide variety of sizes, shapes, outputs and designs.

Mini-Lynx Fast-Start

Mini-Lynx Fast-Start energy savers are different. These exceptionally compact fluorescent lamps have no unpleasant flicker or switch delay. They illuminate in less than two seconds, achieve full luminous flux in under 30 seconds and are available in a wide range of wattages and colours. Furthermore, with a rated lifetime of 10,000 hours, they are easy to fit...and forget.

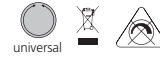
Mini-Lynx Classico

Mini-Lynx Classico 7W & 11W are exact size replacements for A55 & A60 incandescent GLS lamps. As today's decorative fittings are getting smaller and more compact, the Mini-Lynx Classico's smaller sizes make it ideal for residential environments. The improved cover design of this lamp removes the unsightly plastic base of previous models, ensuring all around illumination with no dark areas. Furthermore, being shatter resistant, applications such as childcare and food preparation areas are particularly relevant due to safety concerns.





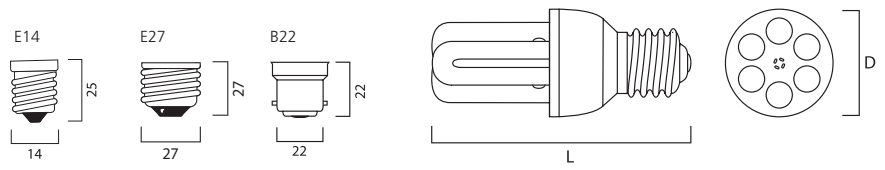
- Up to 80% energy saving compared to incandescent lamps
- Compact, fast-start energy saving lamps
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 30 seconds
- No liquid mercury (<2.5mg pill)
- 20,000 switching cycles
- Good colour rendering CRI=80)
- Available in Homelight (2700K), Cool White (4000K) and Daylight (6000K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® Fast-Start

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| Mini-Lynx Fast-Start 10K Homelight (827) | | | | | | | | |
| 0031143 | 8W/E14 | 8 | 230-240 | E14 | 2700 | 450 | 10000 | 10 |
| 0031146 | 8W/E27 | 8 | 230-240 | E27 | 2700 | 450 | 10000 | 10 |
| 0031147 | 8W/B22 | 8 | 230-240 | B22 | 2700 | 450 | 10000 | 10 |
| 0031151 | 11W/E14 | 11 | 230-240 | E14 | 2700 | 600 | 10000 | 10 |
| 0031155 | 11W/E27 | 11 | 230-240 | E27 | 2700 | 600 | 10000 | 10 |
| 0031159 | 11W/B22 | 11 | 230-240 | B22 | 2700 | 600 | 10000 | 10 |
| 0031161 | 15W/E27 | 15 | 230-240 | E27 | 2700 | 900 | 10000 | 10 |
| 0031165 | 15W/B22 | 15 | 230-240 | B22 | 2700 | 900 | 10000 | 10 |
| 0031167 | 20W/E27 | 15 | 230-240 | E27 | 2700 | 1200 | 10000 | 10 |
| 0031171 | 20W/B22 | 20 | 230-240 | B22 | 2700 | 1200 | 10000 | 10 |
| 0031173 | 23W/E27 | 23 | 230-240 | E27 | 2700 | 1450 | 10000 | 10 |
| 0031176 | 23W/B22 | 23 | 230-240 | B22 | 2700 | 1450 | 10000 | 10 |
| Mini-Lynx Fast-Start Cool White (840) | | | | | | | | |
| 0031144 | 8W/E14 | 8 | 230-240 | E14 | 4000 | 450 | 10000 | 10 |
| 0031148 | 8W/E27 | 8 | 230-240 | E27 | 4000 | 450 | 10000 | 10 |
| 0031152 | 11W/E14 | 11 | 230-240 | E14 | 4000 | 600 | 10000 | 10 |
| 0031156 | 11W/E27 | 11 | 230-240 | E27 | 4000 | 600 | 10000 | 10 |
| 0031162 | 15W/E27 | 15 | 230-240 | E27 | 4000 | 900 | 10000 | 10 |
| 0031168 | 20W/E27 | 20 | 230-240 | E27 | 4000 | 1200 | 10000 | 10 |
| 0031174 | 23W/E27 | 23 | 230-240 | E27 | 4000 | 1450 | 10000 | 10 |
| Mini-Lynx Fast-Start Daylight (860) | | | | | | | | |
| 0031153 | 11W/E14 | 11 | 230-240 | E14 | 6000 | 585 | 10000 | 10 |
| 0031157 | 11W/E27 | 11 | 230-240 | E27 | 6000 | 585 | 10000 | 10 |
| 0031163 | 15W/E27 | 15 | 230-240 | E27 | 6000 | 875 | 10000 | 10 |
| 0031169 | 20W/E27 | 20 | 230-240 | E27 | 6000 | 875 | 10000 | 10 |
| 0031175 | 23W/E27 | 23 | 230-240 | E27 | 6000 | 1380 | 10000 | 10 |

| E14 | 5W | 8W | 11W | 15W | 20W | 23W |
|-----|-----|-----|-----|-----|-----|-----|
| L | 106 | 109 | 102 | - | - | - |
| D | 38 | 44 | 48 | - | - | - |
| E27 | 5W | 8W | 11W | 15W | 20W | 23W |
| L | 104 | 106 | 100 | 112 | 134 | 150 |
| D | 38 | 44 | 48 | 48 | 48 | 48 |
| B22 | 5W | 8W | 11W | 15W | 20W | 23W |
| L | - | 104 | 98 | 100 | 132 | 148 |
| D | - | 44 | 48 | 48 | 48 | 48 |





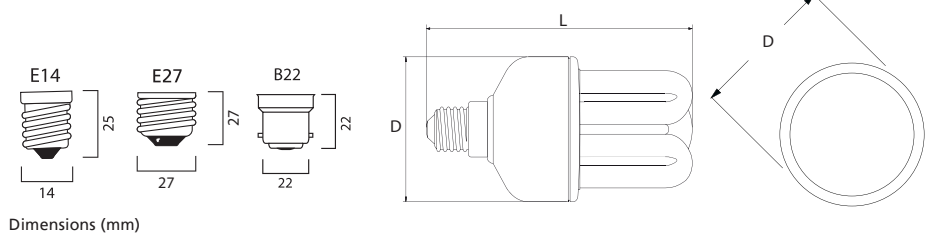
- Up to 80% energy saving compared to incandescent lamps
- Instant flicker free start (<0.3 seconds)
- Delivers 60% light in less than 30 seconds
- No liquid mercury (<2.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K), Cool White (4000K) and Daylight (6500K)
- Average rated life 8,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® Fast-Start Home

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Pack Qty |
|--|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|----------|
| Mini-Lynx Fast-Start Home (827) | | | | | | | | |
| 0031509 | 9W E14 | 9 | 220-240 | E14 | 2700 | 450 | 8000 | 10 |
| 0031510 | 9W E27 | 9 | 220-240 | E27 | 2700 | 450 | 8000 | 10 |
| 0031511 | 11W E27 | 11 | 220-240 | E27 | 2700 | 649 | 8000 | 10 |
| 0031581 | 11W B22 | 11 | 220-240 | B22 | 2700 | 649 | 8000 | 10 |
| 0031512 | 15W E27 | 15 | 220-240 | E27 | 2700 | 850 | 8000 | 10 |
| 0031582 | 15W B22 | 15 | 220-240 | B22 | 2700 | 850 | 8000 | 10 |
| 0031513 | 20W E27 | 20 | 220-240 | E27 | 2700 | 1200 | 8000 | 10 |
| 0031583 | 20W B22 | 20 | 220-240 | B22 | 2700 | 1200 | 8000 | 10 |
| 0031514 | 23W E27 | 23 | 220-240 | E27 | 2700 | 1400 | 8000 | 10 |
| Mini-Lynx Fast-Start Home (840) | | | | | | | | |
| 0031562 | 9W E14 | 9 | 220-240 | E14 | 4000 | 450 | 8000 | 10 |
| 0031564 | 9W E27 | 9 | 220-240 | E27 | 4000 | 450 | 8000 | 10 |
| 0031566 | 11W E27 | 11 | 220-240 | E27 | 4000 | 650 | 8000 | 10 |
| 0031568 | 15W E27 | 15 | 220-240 | E27 | 4000 | 850 | 8000 | 10 |
| 0031570 | 20W E27 | 20 | 220-240 | E27 | 4000 | 1200 | 8000 | 10 |
| 0031572 | 23W E27 | 23 | 220-240 | E27 | 4000 | 1400 | 8000 | 10 |
| Mini-Lynx Fast-Start Home (860) | | | | | | | | |
| 0031563 | 9W E14 | 9 | 220-240 | E14 | 6500 | 420 | 8000 | 10 |
| 0031565 | 9W E27 | 9 | 220-240 | E27 | 6500 | 420 | 8000 | 10 |
| 0031567 | 11W E27 | 11 | 220-240 | E27 | 6500 | 600 | 8000 | 10 |
| 0031569 | 15W E27 | 15 | 220-240 | E27 | 6500 | 800 | 8000 | 10 |
| 0031571 | 20W E27 | 20 | 220-240 | E27 | 6500 | 1152 | 8000 | 10 |
| 0031573 | 23W E27 | 23 | 220-240 | E27 | 6500 | 1371 | 8000 | 10 |

| E14 | 9W | | | | | |
|---------|-----|-----|-----|-----|-----|--|
| L | 113 | | | | | |
| D | 45 | | | | | |
| E27/B22 | 9W | 11W | 15W | 20W | 23W | |
| L | 111 | 123 | 136 | 156 | 174 | |
| D | 45 | 45 | 45 | 45 | 45 | |





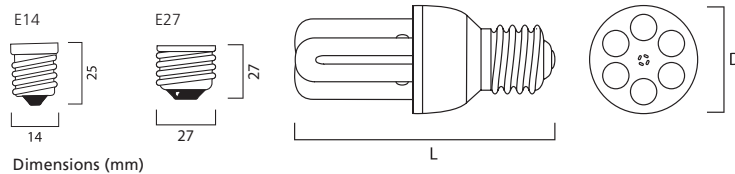
- Up to 77% energy saving compared to incandescent lamps
- Sylvania's smallest fast-start energy saving lamps
- Compact dimensions
- Instant flicker-free start
- Delivers 60% light in less than 1 minute - no waiting
- No liquid mercury (<3.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700)
- Average rated life 6,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® Compact Fast-Start

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0031001 | 5W/E14 | 5 | 230-240 | E14 | 2700 | 180 | 6000 | 10 |
| 0031003 | 5W/E27 | 5 | 230-240 | E27 | 2700 | 180 | 6000 | 10 |
| 0031019 | 7W/E14 | 7 | 230-240 | E14 | 2700 | 286 | 6000 | 10 |
| 0031021 | 7W/E27 | 7 | 230-240 | E27 | 2700 | 286 | 6000 | 10 |
| 0031023 | 9W/E14 | 9 | 230-240 | E14 | 2700 | 405 | 6000 | 10 |
| 0031025 | 9W/E27 | 9 | 230-240 | E27 | 2700 | 405 | 6000 | 10 |
| 0031029 | 11W/E27 | 11 | 230-240 | E27 | 2700 | 540 | 6000 | 10 |
| 0031037 | 15W/E27 | 15 | 230-240 | E27 | 2700 | 800 | 6000 | 10 |

| E14 | 5W | 7W | 9W | | |
|-----|----|----|-----|-----|-----|
| L | 86 | 92 | 102 | | |
| D | 38 | 38 | 38 | | |
| E27 | 5W | 7W | 9W | 11W | 15W |
| L | 84 | 90 | 100 | 108 | 120 |
| D | 37 | 38 | 38 | 38 | 43 |





- Up to 82% energy saving compared to incandescent lamps
- Compact, fast-start energy saving lamps
- Spiral design for better light distribution
- Instant flicker free start (<0.3 seconds)
- Delivers 60% light in less than 40 seconds
- No liquid mercury (<1.6mg pill)
- 10,000 switching cycles
- Good colour rendering (CRI=80)
- Available in Homelight (2700K)
- Average rated life 6,000 hrs
- To be used in dry applications or fully enclosed fixtures



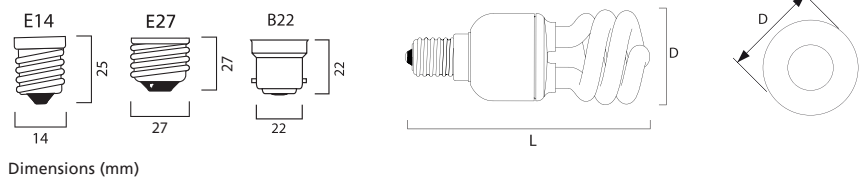
Mini-Lynx® Spiro Superior

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0031441 | 5W E14 | 5 | 230-240 | E14 | 2700 | 300 | 15000 | 10 |
| 0031443 | 7W E14 | 7 | 230-240 | E14 | 2700 | 430 | 15000 | 10 |
| 0031445 | 7W E27 | 7 | 230-240 | E27 | 2700 | 430 | 15000 | 10 |
| 0031446 | 12W E14 | 12 | 230-240 | E14 | 2700 | 730 | 15000 | 10 |
| 0031448 | 12W E27 | 12 | 230-240 | E27 | 2700 | 730 | 15000 | 10 |
| 0031452 | 15W E27 | 15 | 230-240 | E27 | 2700 | 1030 | 15000 | 10 |
| 0031458 | 20W E27 | 20 | 230-240 | E27 | 2700 | 1350 | 15000 | 10 |
| 0031462 | 23W E27 | 23 | 230-240 | E27 | 2700 | 1550 | 15000 | 10 |

| E14 | 7W | 12W |
|-----|-----|-----|
| L | 106 | 110 |
| D | 35 | 46 |

| E27 | 7W | 12W | 15W | 20W | 23W |
|-----|-----|-----|-----|-----|-----|
| L | 100 | 104 | 114 | 123 | 127 |
| D | 35 | 46 | 54 | 54 | 54 |

| B22 | 12W | 15W | 20W |
|-----|-----|-----|-----|
| L | 103 | 113 | 122 |
| D | 46 | 54 | 54 |





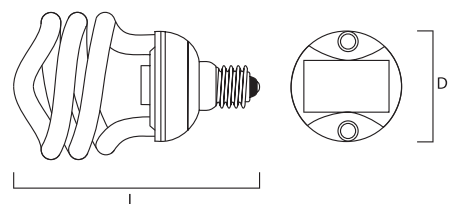
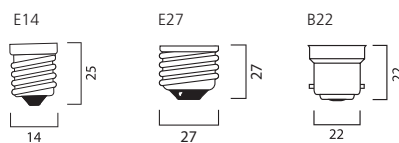
- Up to 81% energy saving compared to incandescent lamps
- Compact dimensions
- Spiral design for maximum light dispersal
- Instant flicker-free start
- Delivers 60% light in less than 1 minute – no waiting
- No liquid mercury (<2.5pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K) and Cool White (4000K)
- Average rated life 10,000 hrs
- To be used in dry applications



Mini-Lynx® Spiro

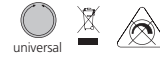
| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| Mini-Lynx Spiro Homelight (827) | | | | | | | | |
| 0031005 | 8W/E14 | 8 | 230-240 | E14 | 2700 | 405 | 10000 | 10 |
| 0031007 | 8W/E27 | 8 | 230-240 | E27 | 2700 | 405 | 10000 | 10 |
| 0031123 | 12W/E14 | 12 | 230-240 | E14 | 2700 | 630 | 10000 | 10 |
| 0031009 | 12W/E27 | 12 | 230-240 | E27 | 2700 | 630 | 10000 | 10 |
| 0031011 | 12W/B22 | 12 | 230-240 | B22 | 2700 | 630 | 10000 | 10 |
| 0031013 | 15W/E27 | 15 | 230-240 | E27 | 2700 | 845 | 10000 | 10 |
| 0031015 | 15W/B22 | 15 | 230-240 | B22 | 2700 | 845 | 10000 | 10 |
| 0031249 | 20W/E27 | 20 | 230-240 | E27 | 2700 | 1200 | 10000 | 10 |
| 0031139 | 20W/B22 | 20 | 230-240 | B22 | 2700 | 1200 | 10000 | 10 |
| 0031518 | 23W/E27 | 23 | 230-240 | E27 | 2700 | 1400 | 10000 | 10 |
| Mini-Lynx Spiro Cool White (840) | | | | | | | | |
| 0031017 | 15W/E27 | 15 | 230-240 | E27 | 4000 | 845 | 10000 | 10 |
| 0031250 | 20W/E27 | 20 | 230-240 | E27 | 4000 | 1200 | 10000 | 10 |

| E14 | 8W | 12W | 15W | 20W | |
|-----|----|-----|-----|-----|-----|
| L | 89 | 94 | - | - | |
| D | 46 | 46 | - | - | |
| E27 | 8W | 12W | 15W | 20W | 23W |
| L | 84 | 88 | 99 | 108 | 123 |
| D | 46 | 46 | 50 | 54 | 55 |
| B22 | 8W | 12W | 15W | 20W | |
| L | - | 86 | 97 | 106 | |
| D | - | 46 | 50 | 54 | |





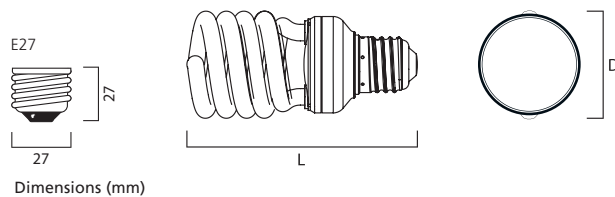
- Up to 78% energy saving compared to incandescent lamps
- Energy saving alternative to high wattage incandescent in professional and semi-professional applications
- Spiral design for better light distribution
- Instant flicker free start (<0.3 seconds)
- Delivers 60% light in less than 1 minute
- No liquid mercury (<3.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K) and Cool White (4000K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



Power-Lynx Fast-Start

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| Power-Lynx Fast-Start Homelight (827) | | | | | | | | |
| 0031326 | 40W/E27 | 40 | 230-240 | E27 | 2700 | 2720 | 10000 | 10 |
| Power-Lynx Fast-Start Cool White (840) | | | | | | | | |
| 0031328 | 40W/E27 | 40 | 230-240 | E27 | 4000 | 2720 | 10000 | 10 |

| | |
|-----|-----|
| E27 | 40W |
| L | 188 |
| D | 67 |





Classico E27

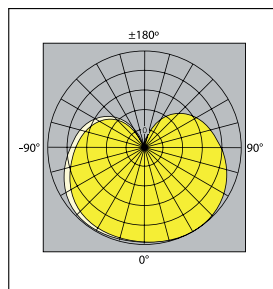
- Up to 78% energy saving compared to incandescent lamps
- Shatter-resistant cover
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 120 seconds
- No liquid mercury (<2.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



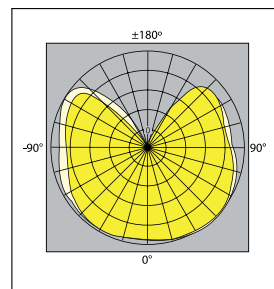
Mini-Lynx® Compact GLS Classico

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Pack Qty |
|---------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|----------|
| 0031496 | 7W E27 | 7 | 230-240 | E27 | 2700 | 286 | 8000 | 10 |
| 0031500 | 11W E27 | 11 | 230-240 | E27 | 2700 | 531 | 8000 | 10 |
| 0031505 | 13W E27 | 13 | 230-240 | E27 | 2700 | 700 | 8000 | 10 |

Classico has the similar distribution to incandescent bulbs, but light is much more stable.

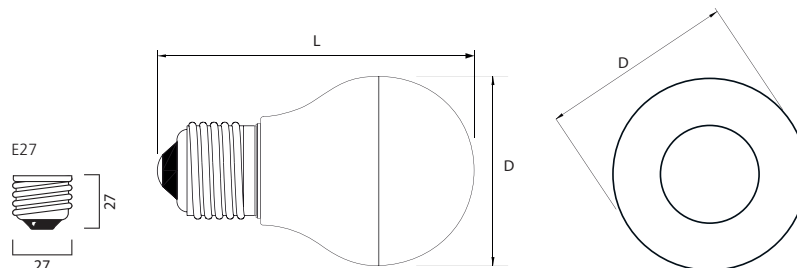


Classico



Incandescent

| E27 | 7W | 11W | 13W |
|-----|----|-----|-----|
| L | 93 | 99 | 112 |
| D | 56 | 60 | 69 |



Dimensions (mm)



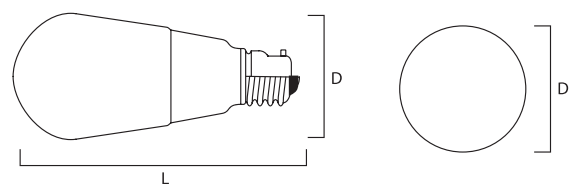
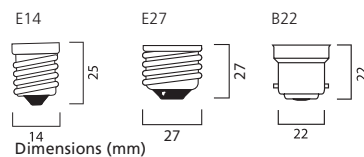
- Up to 78% energy saving compared to incandescent lamps
- Opal housing delivers all-round illumination whilst hiding burner design
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute
- No liquid mercury (<2.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® Compact GLS

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0031073 | 15W/E27 | 15 | 230-240 | E27 | 2700 | 810 | 10000 | 10 |
| 0031075 | 15W/B22 | 15 | 230-240 | B22 | 2700 | 810 | 10000 | 10 |
| 0031213 | 20W/E27 | 20 | 230-240 | E27 | 2700 | 1152 | 10000 | 10 |
| 0031211 | 20W/B22 | 20 | 230-240 | B22 | 2700 | 1152 | 10000 | 10 |

| | E27 | 15W | 20W |
|---|-----|-----|-----|
| L | | 130 | 149 |
| D | | 64 | 75 |
| | B22 | 15W | 20W |
| L | | 128 | 147 |
| D | | 64 | 75 |





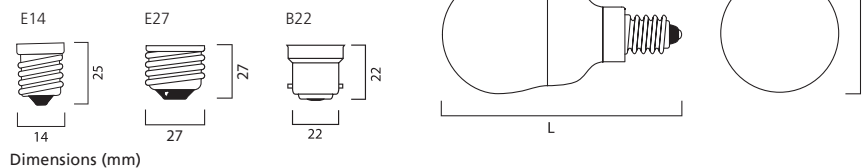
- Up to 80% energy saving compared to incandescent lamps
- Opal housing delivers all-round illumination whilst hiding burner design
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute
- No liquid mercury (<2.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® Compact Ball

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| Mini-Lynx Ball Homelight (827) | | | | | | | | |
| 0031118 | 7W/E14 | 7 | 230-240 | E14 | 2700 | 286 | 10000 | 10 |
| 0031057 | 7W/E27 | 7 | 230-240 | E27 | 2700 | 286 | 10000 | 10 |
| 0031061 | 9W/E14 | 9 | 230-240 | E14 | 2700 | 405 | 10000 | 10 |
| 0031063 | 9W/E27 | 9 | 230-240 | E27 | 2700 | 405 | 10000 | 10 |
| 0031065 | 9W/B22 | 9 | 230-240 | B22 | 2700 | 405 | 10000 | 10 |
| Mini-Lynx Ball Cool White (840) | | | | | | | | |
| 0031116 | 9W/E14 | 9 | 230-240 | E14 | 4000 | 405 | 10000 | 10 |

| | | |
|-----|----|-----|
| E14 | 7W | 9W |
| L | 96 | 103 |
| D | 50 | 50 |
| E27 | 7W | 9W |
| L | 91 | 98 |
| D | 50 | 50 |
| B22 | 9W | |
| L | 96 | |
| D | 50 | |





- Up to 81% energy saving compared to incandescent lamps
- Opal housing delivers all-round illumination whilst hiding burner design
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 120 seconds
- No liquid mercury (<2.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® Candle

| Code | Description | Watt (W) | Volt (V) | Cap | Colour | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Pack Qty |
|---------|-------------|----------|----------|-----|--------|-----------------|--------------------|--------------------------|----------|
| 0031477 | 7W E14 | 7 | 230-240 | E14 | 827 | 2700 | 300 | 10000 | 10 |
| 0031479 | 7W E27 | 7 | 230-240 | E27 | 827 | 2700 | 300 | 10000 | 10 |
| 0031483 | 9W E14 | 9 | 230-240 | E14 | 827 | 2700 | 405 | 10000 | 10 |
| 0031490 | 9W B22 | 9 | 230-240 | B22 | 827 | 2700 | 405 | 10000 | 10 |
| 0031485 | 9W E27 | 9 | 230-240 | E27 | 827 | 2700 | 405 | 10000 | 10 |
| 0031488 | 9W E14 | 9 | 230-240 | E14 | 840 | 2700 | 405 | 10000 | 10 |

Mini-Lynx® Bent-Tip

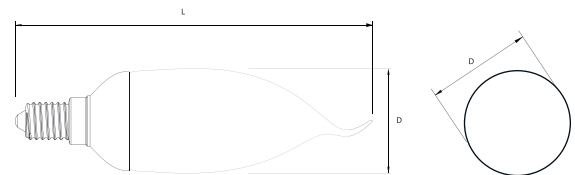
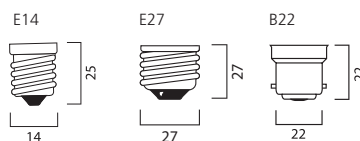
| Code | Description | Watt (W) | Volt (V) | Cap | Colour | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Pack Qty |
|---------|-------------|----------|----------|-----|--------|-----------------|--------------------|--------------------------|----------|
| 0031494 | 9W E14 | 9 | 230-240 | E14 | 827 | 2700 | 405 | 10000 | 10 |

| E14 | 7W | 9W |
|-----|-----|-----|
| L | 106 | 111 |
| D | 39 | 39 |

| E27 | 7W | 9W |
|-----|-----|-----|
| L | 105 | 110 |
| D | 39 | 39 |

| B22 | 9W |
|-----|-----|
| L | 110 |
| D | 39 |

| Bent Tipped | |
|-------------|-----|
| E14 | 9W |
| L | 132 |
| D | 39 |



Dimensions (mm)



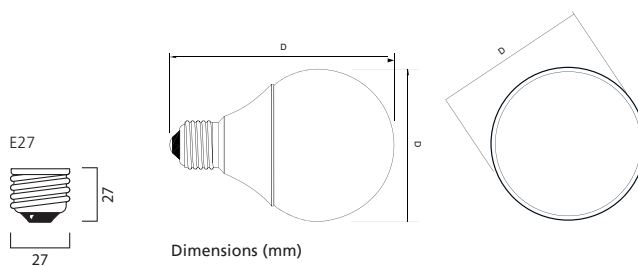
- Up to 81% energy saving compared to incandescent lamps
- Opal housing delivers all-round illumination whilst hiding burner design
- Provides flicker-free light in under 2 seconds
- Delivers 60% light output in less than 60 seconds
- No liquid mercury (<2.5mg pill)
- Good colour rendering
- Available in Homelight (2700K)
- Average rated life of 10,000 hours
- To be used in dry application or fully enclosed fixtures



Mini-Lynx® Globe

| Code | Description | Watt (W) | Cap | Colour Temp (K) | Lumens (lm) | Average Rated Life (Hrs) | Volt (V) |
|---------|-------------|----------|-----|-----------------|-------------|--------------------------|----------|
| 0031464 | 20W E27 | 20 | E27 | 2700 | 1152 | 10000 | 230 |
| 0031466 | 23W E27 | 23 | E27 | 2700 | 1420 | 10000 | 230-240 |

| E27 | 20W | 23W |
|-----|-----|-----|
| L | 140 | 170 |
| D | 95 | 120 |





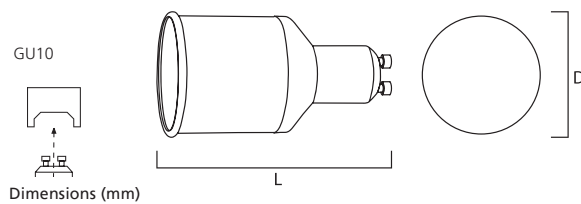
- Up to 81% energy saving compared to incandescent lamps
- Energy saving alternative to standard halogen lamps
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute
- No liquid mercury (<2.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K) and Cool White (4000K)
- Average rated life 8,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® Reflector GU10

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|------------------------------|-------------|----------|----------|------|-----------------|--------------------|--------------------------|-------------|
| GU10 Homelight (827) | | | | | | | | |
| 0031049 | 9W/GU10 | 9 | 230-240 | GU10 | 2700 | 235 | 8000 | 10 |
| 0031051 | 11W/GU10 | 11 | 230-240 | GU10 | 2700 | 265 | 8000 | 10 |
| GU10 Cool White (840) | | | | | | | | |
| 0031053 | 11W/GU10 | 11 | 230-240 | GU10 | 4000 | 265 | 8000 | 10 |

| GU10 | 9W | 11W |
|------|----|-----|
| L | 82 | 90 |
| D | 50 | 50 |





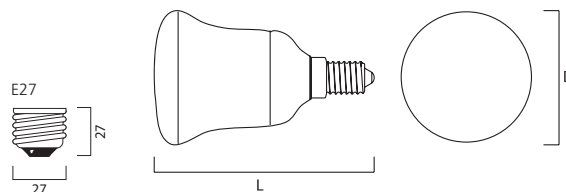
- Up to 80% energy saving compared to incandescent reflector lamps
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute
- No liquid mercury (<2.5mg pill)
- Good colour rendering (CRI=80)
- Available in Homelight (2700K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



Mini-Lynx® R50 - R80 Reflector

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0031109 | 9W/E27 | 9 | 230-240 | E27 | 2700 | 270 | 10000 | 10 |
| 0031113 | 15W/E27 | 15 | 230-240 | E27 | 2700 | 645 | 10000 | 10 |
| 0031115 | 20W/E27 | 20 | 230-240 | E27 | 2700 | 675 | 10000 | 10 |

| E27 | 9W | 15W | 20W |
|-----|-----|-----|-----|
| L | 105 | 122 | 132 |
| D | 63 | 80 | 80 |



Dimensions (mm)



PAR 30



PAR 38

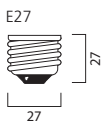
- Up to 80% energy saving compared to incandescent lamps
- Low heat emissions compared to halogen and incandescent
- Provides a flicker-free start in under 1 second
- Delivers 60% light in less than 100 seconds
- No liquid mercury (<2.5mg pill)
- 10,000 switching cycles
- Good colour rendering (CRI=80)
- Available in Homelight (2700K)
- Average rated life 10,000 hrs



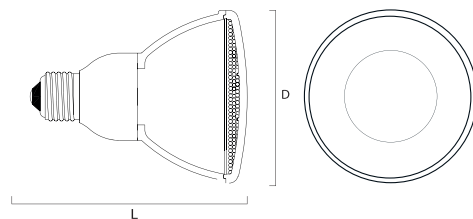
Mini-Lynx® PAR 30 & 38

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Lumens (lm) | Average Rated Life (Hrs) | Pack Qty |
|---------|-------------|----------|----------|-----|-----------------|-------------|--------------------------|----------|
| 0031468 | 15W E27 | 20 | 230-240 | E27 | 2700 | 700 | 10000 | 10 |
| 0031470 | 20W E27 | 23 | 230-240 | E27 | 2700 | 1200 | 10000 | 10 |

| | PAR30 | PAR38 |
|---|-------|-------|
| L | 90 | 136 |
| D | 85 | 124 |

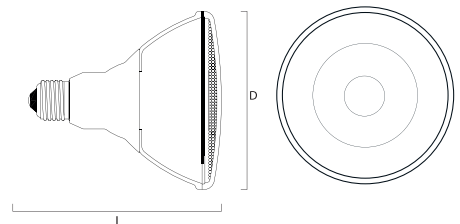


PAR 30



Dimensions (mm)

PAR 38





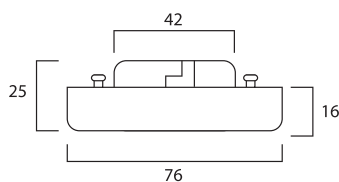
- Integrated twist and lock safety key
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 30 seconds
- Mercury content <2.5mg
- High switching cycle - 30,000 times over the life of the lamp
- Good colour rendering (CRI=80)
- Available in Warm White (3000K) and Cool White (4000K)
- Average rated life 10,000 hrs
- To be used in dry applications or fully enclosed fixtures



Micro-Lynx® Luna

| Code | Description | Watt (W) | Volt (V) | Cap | Colour | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---|-----------------|----------|----------|------|--------|-----------------|--------------------|--------------------------|-------------|
| Micro-Lynx Luna Warm White (830) | | | | | | | | | |
| 0025477 | Micro-Lynx Luna | 6 | 230-240 | GX53 | White | 3000 | 235 | 10000 | 20 |
| Micro-Lynx Luna Cool White (840) | | | | | | | | | |
| 0025478 | Micro-Lynx Luna | 6 | 230-240 | GX53 | White | 4000 | 235 | 10000 | 20 |

GX53



Dimensions (mm)

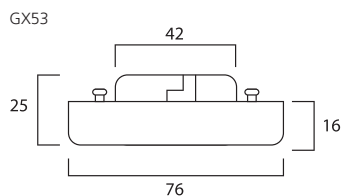


- Integrated twist and lock safety key
- Instant flicker free start (<0.3 seconds)
- Mercury content <2.5mg
- Good colour rendering (CRI=80)
- Average rated life 8,000 hrs
- Available in Homelight (2700K) Warm White (3000K) and Cool White (4000K)
- To be used in dry applications or fully enclosed fixtures



Micro-Lynx® F

| Code | Description | Watt (W) | Volt (V) | Cap | Colour | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------------------|--------------|----------|----------|------|--------|-----------------|--------------------|--------------------------|-------------|
| Micro-Lynx F Homelight (827) | | | | | | | | | |
| 0025214 | Micro-Lynx F | 6 | 230-240 | GX53 | White | 2700 | 230 | 8000 | 20 |
| Micro-Lynx F Warm White (830) | | | | | | | | | |
| 0025218 | Micro-Lynx F | 6 | 230-240 | GX53 | White | 3000 | 230 | 8000 | 20 |
| Micro-Lynx F Cool White (840) | | | | | | | | | |
| 0025219 | Micro-Lynx F | 6 | 230-240 | GX53 | White | 4000 | 230 | 8000 | 20 |



Dimensions (mm)



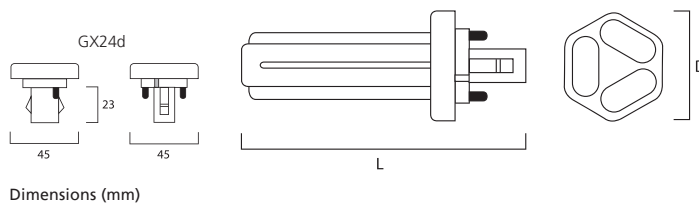
- Triple bend compact pin-base lamps
- Suitable for operation on conventional control gear
- Excellent colour rendering (CRI=85)
- Available in Warm White (3000K) and Cool white (4000K)
- Average rated life: 15000 hours



Lynx®-T

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------------------------------|-------------|----------|----------|---------|-----------------|--------------------|--------------------------|-------------|
| Lynx-T Warm White Deluxe (830) | | | | | | | | |
| 0027801 | 18W/830 | 18 | 230-240 | GX24d-2 | 3000 | 1200 | 15000 | 10 |
| 0027811 | 26W/830 | 26 | 230-240 | GX24d-3 | 3000 | 1800 | 15000 | 10 |
| Lynx-T Cool White Deluxe (840) | | | | | | | | |
| 0027802 | 18W/840 | 18 | 230-240 | GX24d-2 | 4000 | 1200 | 15000 | 10 |
| 0027812 | 26W/840 | 26 | 230-240 | GX24d-3 | 4000 | 1800 | 15000 | 10 |

| GX24d | 18W | 26W |
|-------|-----|-----|
| L | 97 | 112 |
| D | 49 | 49 |





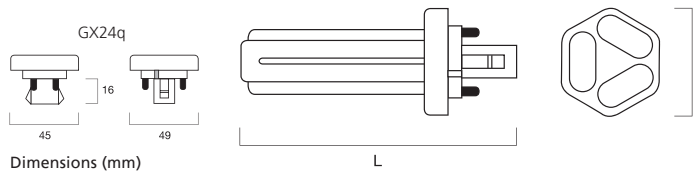
- Excellent luminous flux at high and low ambient temperatures
- Particularly suitable for use in the new generation of ultra compact fluorescent downlights and luminaires
- Amalgam technology designed for high temperature applications
- Excellent colour rendering - (CRI=80-89)
- To be operated on electronic ballasts only
- Dimmable with suitable dimmer
- Available in Warm White (3000K and Cool White (4000K)
- Average rated life: 15000 hours



Lynx® - TE Amalgam

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (hrs) | Packing Qty |
|---------------------------------|-------------|----------|----------|---------|-----------------|--------------------|--------------------------|-------------|
| Lynx-TE Warm White (830) | | | | | | | | |
| 0027817 | 18W/830 | 18 | 230-240 | GX24q-2 | 3000 | 1200 | 15000 | 10 |
| 0027822 | 26W/830 | 26 | 230-240 | GX24q-3 | 3000 | 1800 | 15000 | 10 |
| 0027842 | 32W/830 | 32 | 230-240 | GX24q-3 | 3000 | 2400 | 15000 | 10 |
| 0027844 | 42W/830 | 42 | 230-240 | GX24q-4 | 3000 | 3200 | 15000 | 10 |
| Lynx-TE Cool White (840) | | | | | | | | |
| 0027816 | 18W/840 | 18 | 230-240 | GX24q-2 | 4000 | 1200 | 15000 | 10 |
| 0027821 | 26W/840 | 26 | 230-240 | GX24q-3 | 4000 | 1800 | 15000 | 10 |
| 0027840 | 32W/840 | 32 | 230-240 | GX24q-3 | 4000 | 2400 | 15000 | 10 |
| 0027845 | 42W/840 | 42 | 230-240 | GX24q-4 | 4000 | 3200 | 15000 | 10 |

| GX24q | 18W | 26W | 32W | 42W |
|-------|-----|-----|-----|-----|
| L | 97 | 112 | 128 | 149 |
| D | 49 | 49 | 49 | 49 |





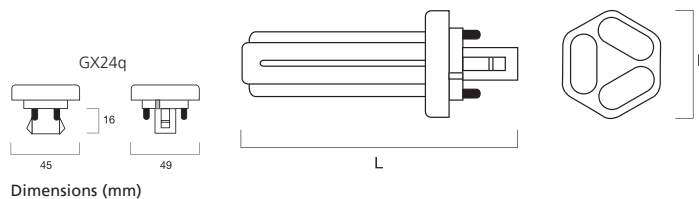
- Triple pin-base lamps for traditional fixtures, new installations and downlights
- Suitable for operation on electronic control gear
- Excellent colour rendering - (CRI= 80-89)
- Rapid Run-up
- Dimmable with suitable dimmer
- Available in Warm White (3000K and Cool White (4000K)
- Average Rated Life 15000 hrs



Lynx® - TE FSD

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------------|-------------|----------|----------|---------|-----------------|--------------------|--------------------------|-------------|
| Lynx-TE FSD Warm White (830) | | | | | | | | |
| 0027851 | 18W/830 | 18 | 230-240 | GX24q-2 | 3000 | 1200 | 15000 | 10 |
| 0027854 | 26W/830 | 26 | 230-240 | GX24q-3 | 3000 | 1800 | 15000 | 10 |
| 0027857 | 32W/830 | 32 | 230-240 | GX24q-3 | 3000 | 2400 | 15000 | 10 |
| 0027860 | 42W/830 | 42 | 230-240 | GX24q-4 | 3000 | 3200 | 15000 | 10 |
| Lynx-TE FSD Cool White (840) | | | | | | | | |
| 0027852 | 18W/840 | 18 | 230-240 | GX24q-2 | 4000 | 1200 | 15000 | 10 |
| 0027855 | 26W/840 | 26 | 230-240 | GX24q-3 | 4000 | 1800 | 15000 | 10 |
| 0027858 | 32W/840 | 32 | 230-240 | GX24q-3 | 4000 | 2400 | 15000 | 10 |
| 0027861 | 42W/840 | 42 | 230-240 | GX24q-4 | 4000 | 3200 | 15000 | 10 |

| GX24q | 18W | 26W | 32W | 42W |
|-------|-----|-----|-----|-----|
| L | 97 | 112 | 128 | 149 |
| D | 49 | 49 | 49 | 49 |





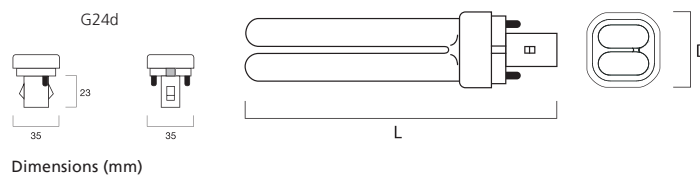
- Compact and high performance double bend pin base lamp
- Suitable for operation on conventional control gear
- Excellent luminous flux
- Excellent colour rendering – (CRI=85)
- Available in Homelight (2700K), Warm White (3000K), White (3500K) Cool White (4000K) and Daylight (6500K)
- Average rated life: 10000 hours



Lynx®-D

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------------|-------------|----------|----------|--------|-----------------|--------------------|--------------------------|-------------|
| Lynx-D Homelight (827) | | | | | | | | |
| 0025904 | 10W/827 | 10 | 230-240 | G24d-1 | 2700 | 600 | 10000 | 10 |
| 0025905 | 13W/827 | 13 | 230-240 | G24d-1 | 2700 | 900 | 10000 | 10 |
| 0025906 | 18W/827 | 18 | 230-240 | G24d-2 | 2700 | 1200 | 10000 | 10 |
| 0025907 | 26W/827 | 26 | 230-240 | G24d-3 | 2700 | 1800 | 10000 | 10 |
| Lynx-D Warm White (830) | | | | | | | | |
| 0025908 | 10W/830 | 10 | 230-240 | G24d-1 | 3000 | 600 | 10000 | 10 |
| 0025909 | 13W/830 | 13 | 230-240 | G24d-1 | 3000 | 900 | 10000 | 10 |
| 0025910 | 18W/830 | 18 | 230-240 | G24d-2 | 3000 | 1200 | 10000 | 10 |
| 0025911 | 26W/830 | 26 | 230-240 | G24d-3 | 3000 | 1800 | 10000 | 10 |
| Lynx-D White (835) | | | | | | | | |
| 0025941 | 13W/835 | 13 | 230-240 | G24d-1 | 3500 | 900 | 10000 | 10 |
| 0025942 | 18W/835 | 18 | 230-240 | G24d-2 | 3500 | 1200 | 10000 | 10 |
| 0025943 | 26W/835 | 26 | 230-240 | G24d-3 | 3500 | 1800 | 10000 | 10 |
| Lynx-D Cool White (840) | | | | | | | | |
| 0025912 | 10W/840 | 10 | 230-240 | G24d-1 | 4000 | 600 | 10000 | 10 |
| 0025913 | 13W/840 | 13 | 230-240 | G24d-1 | 4000 | 900 | 10000 | 10 |
| 0025914 | 18W/840 | 18 | 230-240 | G24d-2 | 4000 | 1200 | 10000 | 10 |
| 0025915 | 26W/840 | 26 | 230-240 | G24d-2 | 4000 | 1800 | 10000 | 10 |
| Lynx-D Daylight (860) | | | | | | | | |
| 0028323 | 13W/865 | 13 | 230-240 | G24d-1 | 6500 | 900 | 10000 | 10 |
| 0028324 | 18W/865 | 18 | 230-240 | G24d-2 | 6500 | 1200 | 10000 | 10 |
| 0028325 | 26W/865 | 26 | 230-240 | G24d-3 | 6500 | 1800 | 10000 | 10 |

| G24d | 10W | 13W | 18W | 26W |
|------|-----|-----|-----|-----|
| L | 87 | 115 | 129 | 147 |
| D | 35 | 35 | 35 | 35 |





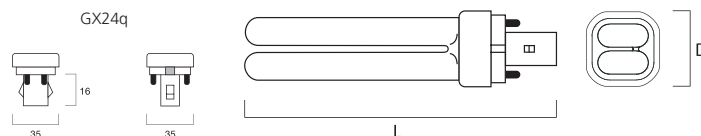
- Compact and high performance pin-base lamp for new and existing installations
- Suitable for operation on electronic control gear
- To be operated on electronic ballast only
- Suitable for emergency lighting
- Excellent luminous flux
- Excellent colour rendering – (CRI=85)
- Dimmable with suitable dimmer
- Available in Homelight (2700K), Warm White (3000K), white (3500K), Cool White (4000K) and Daylight (6500K)
- Average rated life: 12000 hours



Lynx® - DE

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------------------------|-------------|----------|----------|--------|-----------------|--------------------|--------------------------|-------------|
| Lynx-DE Homelight (827) | | | | | | | | |
| 0025916 | 10W/827 | 10 | 230-240 | G24q-1 | 2700 | 600 | 12000 | 10 |
| 0025917 | 13W/827 | 13 | 230-240 | G24q-1 | 2700 | 900 | 12000 | 10 |
| 0025918 | 18W/827 | 18 | 230-240 | G24q-2 | 2700 | 1200 | 12000 | 10 |
| 0025919 | 26W/827 | 26 | 230-240 | G24q-3 | 2700 | 1800 | 12000 | 10 |
| Lynx-DE Warm White (830) | | | | | | | | |
| 0025920 | 10W/830 | 10 | 230-240 | G24q-1 | 3000 | 600 | 12000 | 10 |
| 0025921 | 13W/830 | 13 | 230-240 | G24q-1 | 3000 | 900 | 12000 | 10 |
| 0025922 | 18W/830 | 18 | 230-240 | G24q-2 | 3000 | 900 | 12000 | 10 |
| 0025923 | 26W/830 | 26 | 230-240 | G24q-3 | 3000 | 1800 | 12000 | 10 |
| Lynx-DE White (835) | | | | | | | | |
| 0025945 | 13W/835 | 13 | 230-240 | G24q-1 | 3500 | 900 | 12000 | 10 |
| 0025946 | 18W/835 | 18 | 230-240 | G24q-2 | 3500 | 1200 | 12000 | 10 |
| 0025947 | 26W/835 | 26 | 230-240 | G24q-3 | 3500 | 1800 | 12000 | 10 |
| Lynx-DE Cool White (840) | | | | | | | | |
| 0025924 | 10W/840 | 10 | 230-240 | G24q-1 | 4000 | 600 | 12000 | 10 |
| 0025925 | 13W/840 | 13 | 230-240 | G24q-1 | 4000 | 900 | 12000 | 10 |
| 0025926 | 18W/840 | 18 | 230-240 | G24q-2 | 4000 | 1200 | 12000 | 10 |
| 0025927 | 26W/840 | 26 | 230-240 | G24q-3 | 4000 | 1800 | 12000 | 10 |
| Lynx-DE Daylight (860) | | | | | | | | |
| 0025949 | 13W/860 | 13 | 230-240 | G24q-1 | 6000 | 900 | 12000 | 10 |
| 0025950 | 18W/860 | 18 | 230-240 | G24q-2 | 6000 | 1200 | 12000 | 10 |
| 0025951 | 26W/860 | 26 | 230-240 | G24q-3 | 6000 | 1800 | 12000 | 10 |

| G24d | 10W | 13W | 18W | 26W |
|------|-----|-----|-----|-----|
| L | 87 | 115 | 129 | 147 |
| D | 35 | 35 | 35 | 35 |



Dimensions (mm)



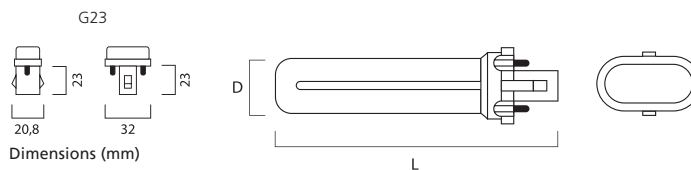
- Single pin-base compact lamps, suitable for wide range of applications
- Excellent colour rendering - (CRI=85)
- For use with magnetic ballast
- Available in Homelight (2700K), Warm White (3000K) and Cool white (4000K)
- Average rated life: 10000 hours



Lynx® - S

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| Lynx-S Homelight (827) | | | | | | | | |
| 0025881 | 7W/827 | 7 | 230-240 | G23 | 2700 | 420 | 10000 | 10 |
| 0025882 | 9W/827 | 9 | 230-240 | G23 | 2700 | 600 | 10000 | 10 |
| 0025883 | 11W/827 | 11 | 230-240 | G23 | 2700 | 900 | 10000 | 10 |
| Lynx-S Warm White (830) | | | | | | | | |
| 0025884 | 5W/830 | 5 | 230-240 | G23 | 3000 | 250 | 10000 | 10 |
| 0025885 | 7W/830 | 7 | 230-240 | G23 | 3000 | 420 | 10000 | 10 |
| 0025886 | 9W/830 | 9 | 230-240 | G23 | 3000 | 600 | 10000 | 10 |
| 0025887 | 11W/830 | 11 | 230-240 | G23 | 3000 | 900 | 10000 | 10 |
| Lynx-S Cool White (840) | | | | | | | | |
| 0025888 | 5W/840 | 5 | 230-240 | G23 | 4000 | 250 | 10000 | 10 |
| 0025889 | 7W/840 | 7 | 230-240 | G23 | 4000 | 420 | 10000 | 10 |
| 0025890 | 9W/840 | 9 | 230-240 | G23 | 4000 | 600 | 10000 | 10 |
| 0025891 | 11W/840 | 11 | 230-240 | G23 | 4000 | 900 | 10000 | 10 |

| G23 | 5W | 7W | 9W | 11W |
|-----|-----|-----|-----|-----|
| L | 105 | 134 | 165 | 233 |
| D | 28 | 28 | 28 | 28 |





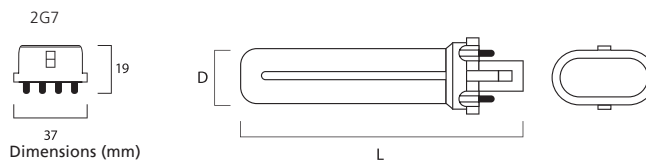
- Single-bend pin base compact lamp: Suitable for wide range of use
- Suitable for operation on electronic control gear
- Dimmable
- Extremely low profile
- Excellent colour rendering – (CRI=85)
- Suitable for emergency lighting
- Dimmable with suitable ballast
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- Average rated life: 10000 hours



Lynx®-SE

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------------------------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| Lynx-SE Homelight (827) | | | | | | | | |
| 0025892 | 5W/827 | 5 | 230-240 | 2G7 | 2700 | 250 | 10000 | 10 |
| 0025893 | 7W/827 | 7 | 230-240 | 2G7 | 2700 | 420 | 10000 | 10 |
| 0025894 | 9W/827 | 9 | 230-240 | 2G7 | 2700 | 600 | 10000 | 10 |
| 0025895 | 11W/827 | 11 | 230-240 | 2G7 | 2700 | 900 | 10000 | 10 |
| Lynx-SE Warm White (830) | | | | | | | | |
| 0025897 | 7W/830 | 7 | 230-240 | 2G7 | 3000 | 420 | 10000 | 10 |
| 0025898 | 9W/830 | 9 | 230-240 | 2G7 | 3000 | 600 | 10000 | 10 |
| 0025899 | 11W/830 | 11 | 230-240 | 2G7 | 3000 | 900 | 10000 | 10 |
| Lynx-SE Cool White (840) | | | | | | | | |
| 0025900 | 5W/840 | 5 | 230-240 | 2G7 | 4000 | 250 | 10000 | 10 |
| 0025901 | 7W/840 | 7 | 230-240 | 2G7 | 4000 | 420 | 10000 | 10 |
| 0025902 | 9W/840 | 9 | 230-240 | 2G7 | 4000 | 600 | 10000 | 10 |
| 0025903 | 11W/840 | 11 | 230-240 | 2G7 | 4000 | 900 | 10000 | 10 |

| 2G7 | 5W | 7W | 9W | 11W |
|-----|----|-----|-----|-----|
| L | 85 | 115 | 145 | 215 |
| D | 28 | 28 | 28 | 28 |





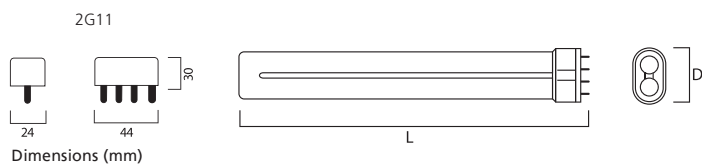
- Compact size alternative for tubular fluorescent lamps
- Suitable for operation on electronic and electromagnet control gears
- Excellent colour rendering - (CRI=85)
- 4-pin 2G11 cap without starter or capacitor
- Suitable for use in modular ceiling luminaires 300 x 300mm or 600 x 600mm
- Dimmable with suitable ballast
- Available in Warm White (3000K), Cool White (4000K) and Daylight (6000K)
- Average rated life: 20000 hours



Lynx®-L

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------------|-------------|----------|----------|------|-----------------|--------------------|--------------------------|-------------|
| Lynx-L Warm White (830) | | | | | | | | |
| 0925233 | 18W/830 | 18 | 230-240 | 2G11 | 3000 | 1200 | 15000 | 10 |
| 0925235 | 24W/830 | 24 | 230-240 | 2G11 | 3000 | 1800 | 15000 | 10 |
| 0925237 | 36W/830 | 36 | 230-240 | 2G11 | 3000 | 2900 | 15000 | 10 |
| Lynx-L Cool White (840) | | | | | | | | |
| 0925234 | 18W/840 | 18 | 230-240 | 2G11 | 4000 | 1200 | 15000 | 10 |
| 0925236 | 24W/840 | 24 | 230-240 | 2G11 | 4000 | 1800 | 15000 | 10 |
| 0925238 | 36W/840 | 36 | 230-240 | 2G11 | 4000 | 2900 | 15000 | 10 |
| Lynx-L Daylight (860) | | | | | | | | |
| 0025685 | 18W/865 | 18 | 230-240 | 2G11 | 6000 | 100 | 15000 | 10 |

| 2G11 | 18W | 24W | 36W |
|------|-----|-----|-----|
| L | 225 | 320 | 415 |
| D | 38 | 38 | 38 |



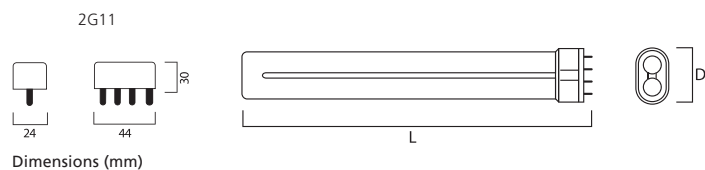


- Compact size alternative for tubular fluorescent lamps
- Suitable for operation on electronic control gears
- Excellent colour rendering – (CRI=85)
- 4-pin 2G11 cap without starter or capacitor
- Suitable for use in modular ceiling luminaires
– 600 x 600mm
- Dimmable with suitable ballast
- Available in Warm White (3000K) and Cool White (4000K)
- Average rated life: 20000 hours



Lynx® - LE

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--|-------------|----------|----------|------|-----------------|--------------------|--------------------------|-------------|
| Lynx-LE Warm White Deluxe (830) | | | | | | | | |
| 0925461 | 40W/830 | 40 | 230-240 | 2G11 | 3000 | 3500 | 15000 | 10 |
| 0925464 | 55W/830 | 55 | 230-240 | 2G11 | 3000 | 4800 | 15000 | 10 |
| Lynx-LE Cool White Deluxe (840) | | | | | | | | |
| 0925462 | 40W/840 | 40 | 230-240 | 2G11 | 4000 | 3500 | 15000 | 10 |
| 0925465 | 55W/840 | 55 | 230-240 | 2G11 | 4000 | 4800 | 15000 | 10 |



Dimensions (mm)



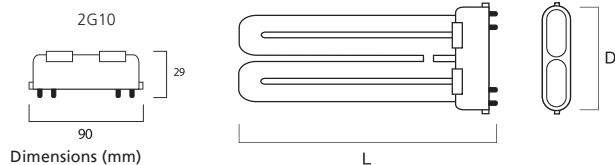
- Flat profile double bend pin-base lamp
- Suitable for operation on electronic and conventional control gears
- Very good colour rendering – (CRI=80)
- Ideal for small, flat luminaires for wall and ceiling mounting
- To be used with conventional magnetic or electronic ballast
- Dimmable with suitable ballast
- Available in Warm White (3000K) and Cool White (4000K)
- Average rated life: 10000 hours



Lynx®-F

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------------------------------------|-------------|----------|----------|------|-----------------|--------------------|--------------------------|-------------|
| Lynx-F Warm White Deluxe (830) | | | | | | | | |
| 0027830 | 24W/830 | 24 | 230-240 | 2G10 | 3000 | 1700 | 15000 | 10 |
| 0027835 | 36W/830 | 36 | 230-240 | 2G10 | 3000 | 2800 | 15000 | 10 |
| Lynx-F Cool White Deluxe (840) | | | | | | | | |
| 0027826 | 18W/840 | 18 | 230-240 | 2G10 | 4000 | 1100 | 15000 | 10 |
| 0027831 | 24W/840 | 24 | 230-240 | 2G10 | 4000 | 1700 | 15000 | 10 |
| 0027836 | 36W/840 | 36 | 230-240 | 2G10 | 4000 | 2800 | 15000 | 10 |

| 2G10 | 18W | 24W | 36W |
|------|-----|-----|-----|
| L | 122 | 165 | 217 |
| D | 79 | 79 | 79 |





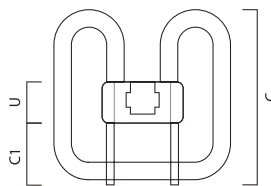
- Uniform distribution of light
- Suitable for operation on conventional control gears
- Flat profile, slim, high output lamps
- Excellent colour rendering - (CRI=85)
- 2-pin GR8 cap incorporate starter
- Available in Homelight (2700K), white (3500K) and Cool White (4000K)
- Average rated life 10000 hours



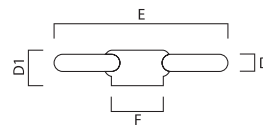
Lynx®-Q

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------------|-------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| Lynx-Q Homelight (827) | | | | | | | | |
| 0024944 | Lynx Q | 16 | 230-240 | GR8 | 2700 | 1050 | 10000 | 10 |
| Lynx-Q White (835) | | | | | | | | |
| 0024946 | Lynx Q | 16 | 230-240 | GR8 | 3500 | 1050 | 10000 | 10 |
| Lynx-Q Cool White (840) | | | | | | | | |
| 0024947 | Lynx Q | 16 | 230-240 | GR8 | 4000 | 1050 | 10000 | 10 |

| Lynx-Q | C max. | C1 max. | D max. | D1 max. | E max. | F max. | U max. |
|--------|--------|---------|--------|---------|--------|--------|--------|
| 16W | 141 | 51 | 15 | 27.5 | 138 | 41 | 40 |



Dimensions (mm)





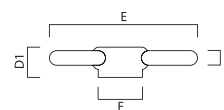
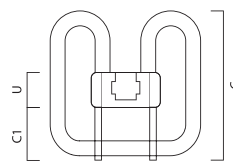
- Flat profile, slim, high output lamps
- Excellent colour rendering - (CRI=85)
- 4-pin GR10q cap without starter
- To be used with electronic ballast
- Dimmable with suitable ballast
- Available in Homelight (2700K), White (3500K) and Cool White (4000K)
- Average rated life 10000 hours



Lynx® - QE

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (hrs) | Packing Qty |
|--|-------------|----------|----------|-------|-----------------|--------------------|--------------------------|-------------|
| Lynx-QE Homelight Deluxe (827) | | | | | | | | |
| 0024989 | Lynx QE | 16 | - | GR10q | 2700 | 1050 | 10000 | 10 |
| 0024997 | Lynx QE | 28 | - | GR10q | 2700 | 2050 | 10000 | 10 |
| 0025001 | Lynx QE | 38 | - | GR10q | 2700 | 2850 | 10000 | 10 |
| Lynx-QE White Deluxe (835) | | | | | | | | |
| 0024991 | Lynx QE | 16 | - | GR10q | 3500 | 1050 | 10000 | 10 |
| 0024999 | Lynx QE | 28 | - | GR10q | 3500 | 2050 | 10000 | 10 |
| 0025003 | Lynx QE | 38 | - | GR10q | 3500 | 2850 | 10000 | 10 |
| Lynx-QE Cool White Deluxe (840) | | | | | | | | |
| 0024992 | Lynx QE | 16 | - | GR10q | 4000 | 1050 | 10000 | 10 |
| 0025000 | Lynx QE | 28 | - | GR10q | 4000 | 2050 | 10000 | 10 |
| 0025004 | Lynx QE | 38 | - | GR10q | 4000 | 2850 | 10000 | 10 |

| Lynx-Q | C max. | C1 max. | D max. | D1 max. | E max. | F max. | U max. |
|--------|--------|---------|--------|---------|--------|--------|--------|
| 16W | 141 | 51 | 15 | 27.5 | 138 | 41 | 40 |
| 28W | 207 | 77 | 24 | 33.0 | 205 | 41 | 49 |
| 38W | 207 | 77 | 24 | 33.0 | 205 | 41 | 49 |



Dimensions (mm)





115 Superia EcoPlus



118 Low Pressure Capsule



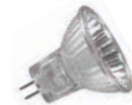
120 MR16 Cool Beam Eco



121 Superia 35



122 Dichroic 35/50



123 Coolfit 50



124 SA111



125 Classic ECO



131 High-Pin



132 High Spot[®]



142 Linear Double Ended Eco



Halogen lamps

Halogen lamps are known for excellent colour rendering (CRI=100) and for dazzling crisp light. This makes it the preferred light source for decorative, accent and general Lighting. We offer an attractive range of halogen lamps in mains voltage (230V-240V) and low voltage (12V) categories. Save on energy, not on light quality



Halogen EcoPlus

Sylvania's new Halogen EcoPlus technology captures and reuses energy to make lamps more efficient than conventional alternatives. EcoPlus' innovative recycling burner allows a more efficient use of energy without sacrificing quality or quantity of light.

Superia EcoPlus series offers a comprehensive range of light source solutions for a wide range of applications, including hotels, restaurants and cafes, retail and the residential sector. EcoPlus lamps save money, are environmentally friendly, produce an unbeatable quality of light and are 100% dimmable. What's more it's very easy to switch from conventional sources, with no installation issues, allowing a reduction in both energy costs and carbon emissions quickly and easily with low capital investment just by changing the lamps.

Classic Eco

Halogen Classic ECO are fully interchangeable with conventional incandescent lamps having no compatibility issues such as size, shape or with electronic control gear. Two times longer average life and excellent colour rendering makes it an ideal replacement lamp. All Halogen Classic ECO lamp are 100% dimmable, which means their light output can be modified according to the required ambience – from maximum brightness to comfortably dimmed.



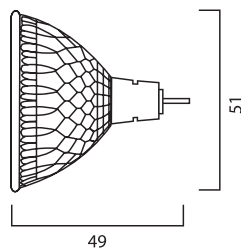
- Up to 40% energy savings
- Hard coated glass ensures stable light appearance throughout its life
- No loss in light intensity compared with standard MR16 dichroic lamps
- Unbeatable light quality (Ra=100)
- Attractive back light - preferred by Architects
- 100% Dimmable works in virtually every installation
- Average rated life of 5000hrs - 2.5 times longer compared to standard MR16 dichroic lamps



Superia 50 EcoPlus

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------|------------------------|----------|----------|----------------|-------|-----------------|-------------------------|--------------------------|-------------|
| 0021697 | Superia 50 EcoPlus 20W | 20 | 12 | 10 | GU5.3 | 3000 | 6000 | 5000 | 10 |
| 0021698 | Superia 50 EcoPlus 20W | 20 | 12 | 36 | GU5.3 | 3000 | 1000 | 5000 | 10 |
| 0021699 | Superia 50 EcoPlus 35W | 35 | 12 | 10 | GU5.3 | 3000 | 11000 | 5000 | 10 |
| 0021700 | Superia 50 EcoPlus 35W | 35 | 12 | 24 | GU5.3 | 3000 | 4100 | 5000 | 10 |
| 0021701 | Superia 50 EcoPlus 35W | 35 | 12 | 36 | GU5.3 | 3000 | 2000 | 5000 | 10 |
| 0021702 | Superia 50 EcoPlus 35W | 35 | 12 | 60 | GU5.3 | 3000 | 1000 | 5000 | 10 |
| 0021703 | Superia 50 EcoPlus 45W | 45 | 12 | 10 | GU5.3 | 3000 | 15000 | 5000 | 10 |
| 0021704 | Superia 50 EcoPlus 45W | 45 | 12 | 24 | GU5.3 | 3000 | 5450 | 5000 | 10 |
| 0021705 | Superia 50 EcoPlus 45W | 45 | 12 | 36 | GU5.3 | 3000 | 2850 | 5000 | 10 |
| 0021706 | Superia 50 EcoPlus 45W | 45 | 12 | 60 | GU5.3 | 3000 | 1300 | 5000 | 10 |

GX/GU5.3



Dimensions (mm)

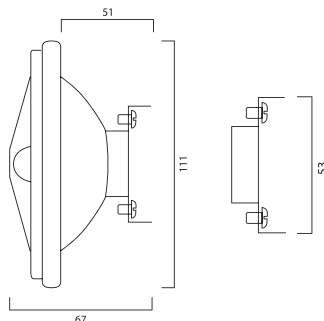


- Excellent beam control - minimum glare
- Up to 40% energy savings
- High light intensity
- 100% Dimmable works in virtually every installation
- Average rated life 4000hrs - 33% longer average life than standard AR111



Superia 111 EcoPlus

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|----------------|-------------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| 0021875 | Superia 111 Ecoplus 35W | 35 | 12 | 6 | G53 | 3000 | 22500 | 4000 | 50 |
| 0021876 | Superia 111 Ecoplus 35W | 35 | 12 | 24 | G53 | 3000 | 4200 | 4000 | 50 |
| 0021877 | Superia 111 Ecoplus 50W | 50 | 12 | 6 | G53 | 3000 | 33000 | 4000 | 50 |
| 0021878 | Superia 111 Ecoplus 50W | 50 | 12 | 24 | G53 | 3000 | 5500 | 4000 | 50 |
| 0021879 | Superia 111 Ecoplus 50W | 50 | 12 | 40 | G53 | 3000 | 2000 | 4000 | 50 |
| 0021880 | Superia 111 Ecoplus 60W | 60 | 12 | 6 | G53 | 3000 | 42000 | 4000 | 50 |
| 0021881 | Superia 111 Ecoplus 60W | 60 | 12 | 24 | G53 | 3000 | 7000 | 4000 | 50 |
| 0021882 | Superia 111 Ecoplus 60W | 60 | 12 | 40 | G53 | 3000 | 2800 | 4000 | 50 |



Dimensions (mm)

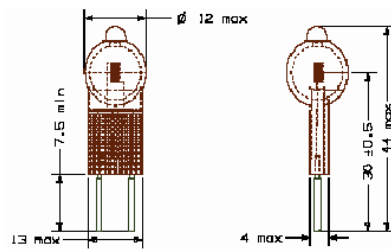


- Same light output as standard capsules
- Up to 40% energy savings
- 100% Dimmable works in virtually every installation
- EcoPlus lamps provide unbeatable light quality making everything look its best
- High luminosity efficacy means more light for your money
- Average rated life 4000hrs - 2 times longer average life compared to standard LV capsules



Superia Capsule EcoPlus

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------|---------------------|----------|----------|--------|-----------------|-------------------------|--------------------------|-------------|
| 0021800 | Superia Capsule 25W | 25 | 12 | GY6.35 | 3000 | 500 | 4000 | 6 |
| 0021801 | Superia Capsule 35W | 35 | 12 | GY6.35 | 3000 | 860 | 4000 | 6 |
| 0021802 | Superia Capsule 50W | 50 | 12 | GY6.35 | 3000 | 1180 | 4000 | 6 |
| 0021803 | Superia Capsule 60W | 60 | 12 | GY6.35 | 3000 | 1650 | 4000 | 6 |



Dimensions (mm)

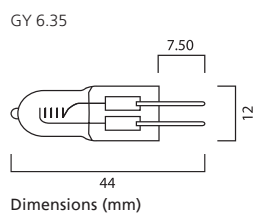


- Xenon technology
- Compact size for optimum luminaire design
- Dimmable using a suitable dimmer for operation with a transformer
- Constant light output throughout lamp life
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- UV protected
- Suitable for interior display, shop windows, restaurants, etc
- Less CO₂ emissions - ECO Friendly
- Less heat generation than standard halogen capsules- more design freedom for luminaire manufacturers
- Excellent colour rendering (CRI=100)
- Average rated life 2000hrs - 20% energy saving with same light output compared to standard capsules



Low Pressure Capsules Eco

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|------------------------|----------|----------|--------|-----------------|--------------------|--------------------------|-------------|
| 0021320 | 12V LP CAPS GY6.35 ECO | 28 | 12 | GY6.35 | 2800 | 500 | 2000 | 10 |
| 0021321 | 12V LP CAPS GY6.35 ECO | 40 | 12 | GY6.35 | 2800 | 900 | 2000 | 10 |





G4 5/10W



GY6.35



G4 20/35W

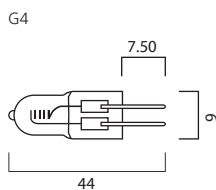
- Compact size for optimum luminaire design
- Dimmable using a suitable dimmer for operation with a transformer
- Constant light output throughout lamp life
- 5W/10W/20W/35W/50W capsules are suitable for use in open luminaires following Luminaire Standard EN 60598-1
- 75W/100W capsules are suitable for operating only in the Luminaire provided with a protective shield
- Suitable for interior display, shop windows, restaurants, etc
- Precision task lighting
- Excellent colour rendering (CRI=100)
- Average rated life 2000hrs or 3000hrs



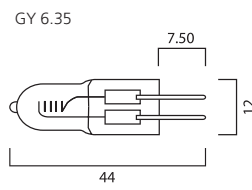
Low Pressure Capsule

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|----------|-------------|----------|----------|---------|-----------------|--------------------|--------------------------|-------------|
| 0022165 | 12V/5W LP | 5 | 12 | G4 | 2800 | 40 | 2000 | 100 |
| 0022241 | 12V/10W LP | 10 | 12 | G4 | 2800 | 100 | 2000 | 100 |
| 0022242 | 12V/20W LP | 20 | 12 | G4 | 2800 | 250 | 2000 | 100 |
| 0022246 | 12V/35W LP | 35 | 12 | G4 | 2800 | 500 | 2000 | 100 |
| 0021021 | 12V/35W LP | 35 | 12 | GY 6.35 | 2800 | 520 | 2000 | 100 |
| 0021022 | 12V/50W LP | 50 | 12 | GY 6.35 | 2800 | 900 | 2000 | 100 |
| 0021994* | 12V/75W HP | 75 | 12 | GY 6.35 | 3050 | 1600 | 3000 | 50 |
| 0021995* | 12V/100W HP | 100 | 12 | GY 6.35 | 3050 | 2300 | 3000 | 50 |

*High performance - pressure



Dimensions (mm)





- 10% energy saving compared with standard MR16 lamp
- Same light intensity as standard MR16 lamps.
- Cool beam - 66% of the heat produced is radiated through the back of the lamp
- Less CO₂ emissions - ECO Friendly
- Less heat generation
- Dimmable using a suitable dimmer for operation with a transformer
- Constant colour and light output throughout lamp life
- Accent and decorative lighting in retail, commercial and domestic applications
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- Excellent colour rendering (CRI=100)
- Average rated life 2000hrs



MR16 Cool Beam Eco

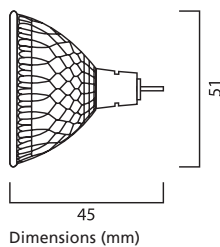
| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------------------------|----------------|----------|----------|----------------|-------|-----------------|-------------------------|--------------------------|-------------|
| MR16 Cool Beam ECO | | | | | | | | | |
| 0021807 | ESX 16W SP10° | 16 | 12 | 10 | GU5.3 | 2925 | 3600 | 2000 | 10 |
| 0021808 | BAB 16W WFL38° | 16 | 12 | 38 | GU5.3 | 2925 | 660 | 2000 | 10 |
| 0021809 | FMT 28W SP10° | 28 | 12 | 10 | GU5.3 | 3000 | 5000 | 2000 | 10 |
| 0021810 | FMW 28W WFL38° | 28 | 12 | 38 | GU5.3 | 3000 | 1200 | 2000 | 10 |
| 0021811 | EXT 40W SP10° | 40 | 12 | 10 | GU5.3 | 3050 | 6000 | 2000 | 10 |
| 0021812 | EXN 40W WFL38° | 40 | 12 | 38 | GU5.3 | 3050 | 1950 | 2000 | 10 |
| 0021813 | FNV 40W WFL60° | 40 | 12 | 60 | GU5.3 | 3050 | 900 | 2000 | 10 |

| 10° | | 16W | | | 28W | | | 40W | | |
|--------|----|--------|--------|--------|-------|--------|--------|-------|-------|-------|
| 175mmØ | 1m | 3600lx | 5000lx | 6000lx | 660lx | 1200lx | 1950lx | 900lx | 900lx | 900lx |
| 350mmØ | 2m | 900lx | 1250lx | 1500lx | 165lx | 300lx | 490lx | 225lx | 225lx | 225lx |
| 525mmØ | 3m | 400lx | 555lx | 666lx | 75lx | 135lx | 215lx | 100lx | 100lx | 100lx |
| 700mmØ | 4m | 225lx | 312lx | 375lx | 40lx | 75lx | 120lx | 55lx | 55lx | 55lx |

| 38° | | 16W | | | 28W | | | 40W | | |
|---------|----|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| 689mmØ | 1m | 660lx | 1200lx | 1950lx | 900lx | 900lx | 900lx | 900lx | 900lx | 900lx |
| 1377mmØ | 2m | 165lx | 300lx | 490lx | 225lx | 225lx | 225lx | 225lx | 225lx | 225lx |
| 2066mmØ | 3m | 75lx | 135lx | 215lx | 100lx | 100lx | 100lx | 100lx | 100lx | 100lx |
| 2755mmØ | 4m | 40lx | 75lx | 120lx | 55lx | 55lx | 55lx | 55lx | 55lx | 55lx |

| 60° | | 40W | | |
|---------|----|-------|-------|-------|
| 1155mmØ | 1m | 900lx | 900lx | 900lx |
| 2309mmØ | 2m | 225lx | 225lx | 225lx |
| 3464mmØ | 3m | 100lx | 100lx | 100lx |
| 4619mmØ | 4m | 55lx | 55lx | 55lx |

GU5.3



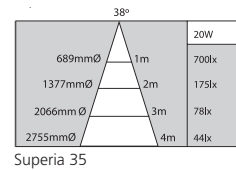


- 25% higher light output compared with standard dichroic lamps
- Cool Beam – 66% of the heat produced is radiated through the back of the lamp
- Spiral reflector, uniform beam pattern, patented design
- Constant colour and light output throughout lamp life
- No colour variation between lamps
- Professional lighting of objects and displays sensitive to heat
- Whiter light output
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- Excellent colour rendering (CRI=100)
- Average rated life 4000hrs - (33% longer life standard MR16 lamps)

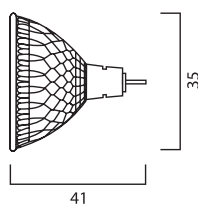


Superia 35

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|----------------|--------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| 0022338 | FTD 12V 20W WFL38° | 20 | 12 | 38 | GU4 | 2925 | 700 | 4000 | 10 |
| 0022341 | FTH 12V 35W WFL38° | 35 | 12 | 38 | GU4 | 3000 | 1350 | 4000 | 10 |



GZ4/GU4



Dimensions (mm)

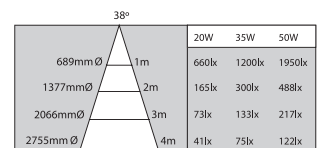
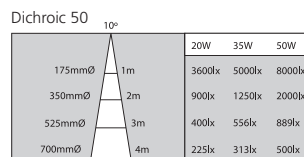
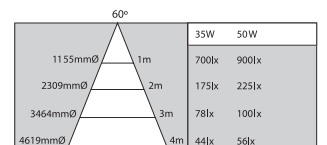
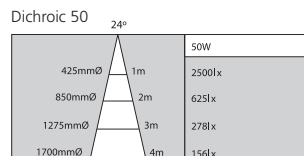
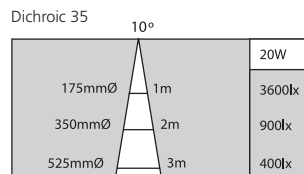


- Cool beam – 66% of the heat produced is radiated through the back of the lamp
- Dimmable using a suitable dimmer for operation with a transformer
- Constant colour and light output throughout lamp life
- Universal burning position
- Accent and decorative lighting in retail, commercial and domestic applications
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- Excellent colour rendering (CRI=100)
- Average rated life 4000hrs

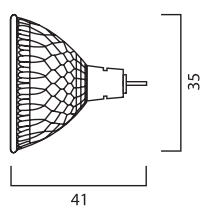


Dichroic 35/50

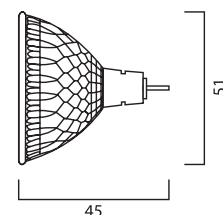
| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|--------------------|---------------------|----------|----------|----------------|-------|-----------------|-------------------------|--------------------------|-------------|
| Dichroic 35 | | | | | | | | | |
| 0022336 | FTB 12V/20W SP10° | 20 | 12 | 10 | GU4 | 2900 | 3600 | 1500 | 10 |
| 0022339 | FTE 12V/35W SP10° | 35 | 12 | 10 | GU4 | 2900 | 5700 | 1500 | 10 |
| Dichroic 50 | | | | | | | | | |
| 0022580 | ESX 20W/12V SP10° | 20 | 12 | 10 | GU5.3 | 2925 | 3600 | 4000 | 10 |
| 0021765 | BAB 20W/12V WFL38° | 20 | 12 | 38 | GU5.3 | 2925 | 660 | 4000 | 10 |
| 0022581 | FMT 35W/12V SP10° | 35 | 12 | 10 | GU5.3 | 3000 | 5000 | 4000 | 10 |
| 0021766 | FMW 35W/12V WFL38° | 35 | 12 | 38 | GU5.3 | 3000 | 1200 | 4000 | 10 |
| 0022391 | 35W/12V VWFL60° | 35 | 12 | 60 | GU5.3 | 3000 | 700 | 4000 | 10 |
| 0022582 | EXT 50W/12V SP10° | 50 | 12 | 10 | GU5.3 | 3050 | 8000 | 4000 | 10 |
| 0022348 | EXZ 50W/12V FL24° | 50 | 12 | 24 | GU5.3 | 3050 | 2500 | 4000 | 10 |
| 0021767 | EXN 50W/12V WFL38° | 50 | 12 | 38 | GU5.3 | 3050 | 1950 | 4000 | 10 |
| 0022390 | FNV 50W/12V VWFL60° | 50 | 12 | 60 | GU5.3 | 3050 | 900 | 4000 | 10 |



GZ4/GU4



GX/GU5.3



Dimensions (mm)

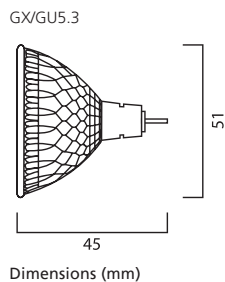
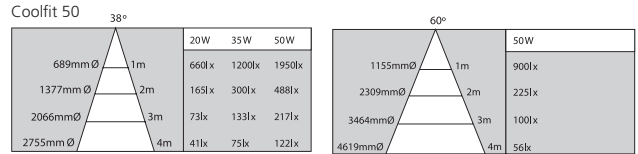


- Virtually all heat and light dissipated away from back of the lamp keeping fixture cool
- Wear resistant aluminium reflector for constant output and colour throughout life
- Easily recognisable by blue cement in lamp cap
- Can replace any 12V 50mmØ dichroic low voltage lamp
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- Excellent colour rendering (CRI=100)
- Average rated life 5000hrs (66% longer life than standard MR16 lamps)



Coolfit 50

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|-------------------|------------------------|----------|----------|----------------|-------|-----------------|-------------------------|--------------------------|-------------|
| Coolfit 50 | | | | | | | | | |
| 0022516 | BAB/AL 20W 12V WFL38° | 20 | 12 | 38 | GU5.3 | 3000 | 660 | 5000 | 10 |
| 0022517 | FMW/AL 35W 12V WFL38° | 35 | 12 | 38 | GU5.3 | 3000 | 1200 | 5000 | 10 |
| 0022519 | EXN/AL 50W 12V WFL38° | 50 | 12 | 38 | GU5.3 | 3000 | 1950 | 5000 | 10 |
| 0022520 | FNV/AL 50W 12V VWFL60° | 50 | 12 | 60 | GU5.3 | 3000 | 900 | 5000 | 10 |





- Aluminium reflector dissipates heat and light forward
- Dimmable using a suitable dimmer for operation with a transformer
- Even light distribution and constant colour throughout lamp life
- Integrated anti-glare shield
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- For accent and decorative lighting in retail, commercial and domestic applications
- Excellent colour rendering (CRI=100)
- Average rated life 3000hrs



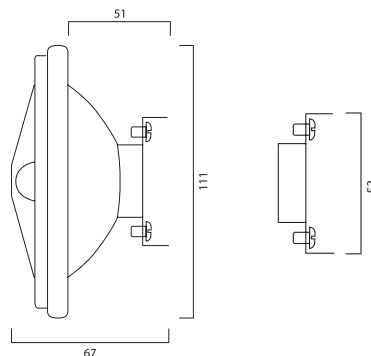
SA111

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|--------------|--------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| SA111 | | | | | | | | | |
| 0021850 | SA111 SP8° | 50 | 12 | 8 | G53 | 2900 | 23000 | 3000 | 6 |
| 0021853 | SA111 SP24° | 50 | 12 | 24 | G53 | 2900 | 4000 | 3000 | 6 |
| 0021856 | SA111 WFL45° | 50 | 12 | 45 | G53 | 2900 | 1200 | 3000 | 6 |
| 0021851 | SA111 SP8° | 75 | 12 | 8 | G53 | 2900 | 30000 | 3000 | 6 |
| 0021854 | SA111 SP24° | 75 | 12 | 24 | G53 | 2900 | 5300 | 3000 | 6 |
| 0021857 | SA111 WFL45° | 75 | 12 | 45 | G53 | 2900 | 1700 | 3000 | 6 |
| 0021852 | SA111 SP8° | 100 | 12 | 8 | G53 | 2900 | 48000 | 3000 | 6 |
| 0021855 | SA111 SP24° | 100 | 12 | 24 | G53 | 2900 | 8500 | 3000 | 6 |
| 0021858 | SA111 WFL45° | 100 | 12 | 45 | G53 | 2900 | 2800 | 3000 | 6 |

| 8° | | 50W | | | 75W | | | 100W | | |
|--------|----|--------|--------|--------|-----|--|--|------|--|--|
| 140mmØ | 1m | 2300lx | 3000lx | 4800lx | | | | | | |
| 280mmØ | 2m | 575lx | 750lx | 1200lx | | | | | | |
| 420mmØ | 3m | 255lx | 333lx | 533lx | | | | | | |
| 559mmØ | 4m | 143lx | 187lx | 300lx | | | | | | |

| 24° | | 50W | | | 75W | | | 100W | | |
|---------|----|-------|-------|-------|-----|--|--|------|--|--|
| 425mmØ | 1m | 400lx | 530lx | 850lx | | | | | | |
| 850mmØ | 2m | 100lx | 132lx | 212lx | | | | | | |
| 1275mmØ | 3m | 44lx | 58lx | 94lx | | | | | | |
| 1700mmØ | 4m | 25lx | 33lx | 53lx | | | | | | |

| 45° | | 20W | | | 35W | | | 50W | | |
|---------|----|-------|-------|-------|-----|--|--|-----|--|--|
| 828mmØ | 1m | 120lx | 170lx | 280lx | | | | | | |
| 1657mmØ | 2m | 30lx | 42lx | 70lx | | | | | | |
| 2485mmØ | 3m | 13lx | 18lx | 31lx | | | | | | |
| 3314mmØ | 4m | 7lx | 10lx | 17lx | | | | | | |



Dimensions (mm)



Classic ECO A55



Classic ECO A60 E27



Classic ECO A60 B22

- 1:1 replacement of Incandescent A55 lamp
- More efficient - more savings
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO₂ emissions
- Identical shape as standard incandescent lamp
- Commercial and domestic application
- 100% dimmable
- Average rated life 1500hrs or 2000hrs - up to two times more average life compared to incandescent lamps

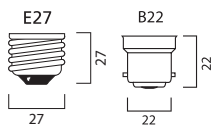


Classic Eco A55/A60

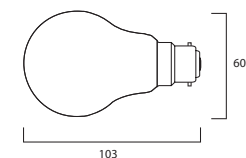
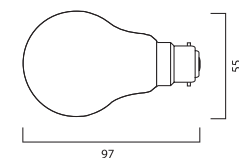
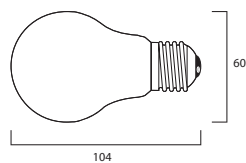
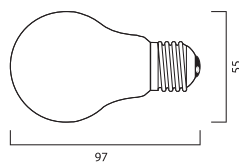
| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0023733 | Classic ECO A55 18W E27 | 18 | 230 | E27 | 2800 | 210 | 2000 | 10 |
| 0023715 | Classic ECO A55 18W B22 | 18 | 230 | B22 | 2800 | 210 | 2000 | 10 |
| 0023713 | Classic ECO A55 18W E27 240V | 18 | 240 | E27 | 2800 | 210 | 1500 | 10 |
| 0023711 | Classic ECO A55 18W B22 240V | 18 | 240 | B22 | 2800 | 210 | 1500 | 10 |
| 0023724 | Classic ECO A55 28W E27 | 28 | 230 | E27 | 2800 | 370 | 2000 | 10 |
| 0023745 | Classic ECO A55 28W B22 | 28 | 230 | B22 | 2800 | 370 | 2000 | 10 |
| 0023767 | Classic ECO A55 42W E27 240V | 42 | 240 | E27 | 2800 | 630 | 1500 | 10 |
| 0023481 | Classic ECO A55 28W E27 240V | 28 | 240 | E27 | 2800 | 370 | 2000 | 10 |
| 0023480 | Classic ECO A55 28W B22 240V | 28 | 240 | B22 | 2800 | 370 | 2000 | 10 |
| 0023768 | Classic ECO A55 42W B22 240V | 42 | 240 | B22 | 2800 | 630 | 1500 | 10 |
| 0023732 | Classic ECO A55 53W E27 | 53 | 230 | E27 | 2800 | 350 | 2000 | 20 |
| 0023765 | Classic ECO A55 42W E27 | 42 | 230 | E27 | 2800 | 630 | 2000 | 10 |
| 0023766 | Classic ECO A55 42W E27 230V | 42 | 230 | B22 | 2800 | 630 | 2000 | 10 |
| 0023133 | Classic ECO A55 53W B22 | 53 | 230 | B22 | 2800 | 850 | 2000 | 10 |
| 0023134 | Classic ECO A55 53W E27 240V | 53 | 240 | E27 | 2800 | 850 | 2000 | 10 |
| 0023135 | Classic ECO A55 53W B22 240V | 53 | 240 | B22 | 2800 | 850 | 2000 | 10 |
| 0023136 | Classic ECO A55 70W E27 | 70 | 230 | E27 | 2800 | 1200 | 2000 | 10 |
| 0023137 | Classic ECO A55 70W B22 | 70 | 230 | B22 | 2800 | 1200 | 2000 | 10 |
| 0023138 | Classic ECO A55 70W E27 240V | 70 | 240 | E27 | 2800 | 1200 | 2000 | 10 |
| 0023139 | Classic ECO A55 70W B22 240V | 70 | 240 | B22 | 2800 | 1200 | 2000 | 10 |
| 0022118 | Classic ECO A60 105W E27 | 105 | 230 | E27 | 2900 | 1900 | 2000 | 10 |
| 0022119 | Classic ECO A60 105W E27 240V | 105 | 240 | E27 | 2900 | 1900 | 2000 | 10 |
| 0022120 | Classic ECO A60 105W B22 240V | 105 | 240 | B22 | 2900 | 1900 | 2000 | 10 |

Classic ECO A55

Classic ECO A60



Dimensions (mm)



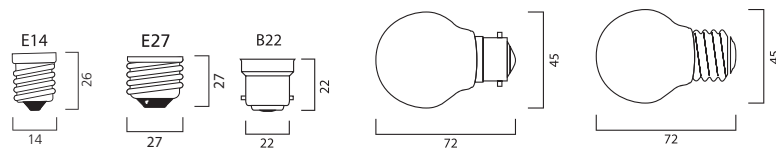


- 1:1 replacement of Incandescent Ball lamp
- More efficient - more savings
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO₂ emissions
- Identical shape as standard incandescent lamp
- Commercial and domestic application
- 100% dimmable
- Average rated life 1500 hrs or 2000 hrs - up to two times more average life compared to incandescent lamps



Classic Eco Ball

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0023737 | Classic ECO Ball 18W E14 | 18 | 230 | E14 | 2800 | 210 | 2000 | 10 |
| 0023716 | Classic ECO Ball 18W E27 | 18 | 230 | E27 | 2800 | 210 | 2000 | 10 |
| 0023490 | Classic ECO Ball 18W E14 240V | 18 | 240 | E14 | 2800 | 210 | 1500 | 10 |
| 0023717 | Classic ECO Ball 18W E27 240V | 18 | 240 | E27 | 2800 | 210 | 1500 | 10 |
| 0023719 | Classic ECO Ball 18W B22 240V | 18 | 240 | B22 | 2800 | 210 | 1500 | 10 |
| 0023744 | Classic ECO Ball 28W E14 | 28 | 230 | E14 | 2800 | 370 | 2000 | 10 |
| 0023485 | Classic ECO Ball 28W E14 240V | 28 | 240 | E14 | 2800 | 370 | 2000 | 10 |
| 0023746 | Classic ECO Ball 28W E27 | 28 | 230 | E27 | 2800 | 370 | 2000 | 10 |
| 0023486 | Classic ECO Ball 28W E27 240V | 28 | 240 | E27 | 2800 | 370 | 2000 | 10 |
| 0023488 | Classic ECO Ball 28W B22 240V | 28 | 240 | B22 | 2800 | 370 | 2000 | 10 |
| 0023776 | Classic ECO Ball 42W E14 | 42 | 230 | E14 | 2800 | 630 | 2000 | 10 |
| 0023777 | Classic ECO Ball 42W E14 240V | 42 | 240 | E14 | 2800 | 630 | 2000 | 10 |
| 0023778 | Classic ECO Ball 42W E27 | 42 | 230 | E27 | 2800 | 630 | 2000 | 10 |
| 0023779 | Classic ECO Ball 42W E27 240V | 42 | 240 | E27 | 2800 | 630 | 2000 | 10 |
| 0023780 | Classic ECO Ball 42W B22 240V | 42 | 240 | B22 | 2800 | 630 | 2000 | 10 |



Dimensions (mm)

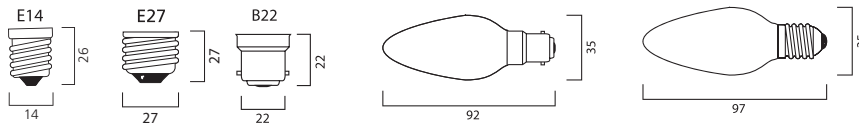


- 1:1 replacement of Incandescent Candle lamp
- More efficient - more savings
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO2 emissions
- Identical shape as standard incandescent lamp
- Commercial and domestic application
- 100% dimmable
- Average rated life 1500hrs or 2000hrs - up to two times more average life compared to incandescent lamps



Classic Eco Candle

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|---|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0023720 | Classic ECO Candle 18W E14 Single Blister | 18 | 230 | E14 | 2800 | 210 | 2000 | 20 |
| 0023743 | Classic ECO Candle 28W E14 | 28 | 230 | E14 | 2800 | 370 | 2000 | 20 |
| 0023775 | Classic ECO Candle 42W E14 Single Blister | 42 | 230 | E14 | 2800 | 630 | 2000 | 20 |
| 0023739 | Classic ECO Candle 18W E14 | 18 | 230 | E14 | 2800 | 210 | 2000 | 10 |
| 0023714 | Classic ECO Candle 18W E27 | 18 | 230 | E27 | 2800 | 210 | 2000 | 10 |
| 0023483 | Classic ECO Candle 18W E14 240V | 18 | 240 | E14 | 2800 | 210 | 1500 | 10 |
| 0023726 | Classic ECO Candle 18W E27 240V | 18 | 240 | E27 | 2800 | 210 | 1500 | 10 |
| 0023723 | Classic ECO Candle 18W B22 240V | 18 | 240 | B22 | 2800 | 210 | 1500 | 10 |
| 0023740 | Classic ECO Candle 28W E14 | 28 | 230 | E14 | 2800 | 370 | 2000 | 10 |
| 0023484 | Classic ECO Candle 28W E14 240V | 28 | 240 | E14 | 2800 | 370 | 2000 | 10 |
| 0023482 | Classic ECO Candle 28W E27 240V | 28 | 240 | E27 | 2800 | 370 | 2000 | 10 |
| 0023738 | Classic ECO Candle 28W B22 240V | 28 | 240 | B22 | 2800 | 370 | 2000 | 10 |
| 0023771 | Classic ECO Candle 42W E14 | 42 | 230 | E14 | 2800 | 630 | 2000 | 10 |
| 0023772 | Classic ECO Candle 42W E14 240V | 42 | 240 | E14 | 2800 | 630 | 2000 | 10 |
| 0023773 | Classic ECO Candle 42W E27 | 42 | 240 | E27 | 2800 | 630 | 2000 | 10 |
| 0023774 | Classic ECO Candle 42W B22 | 42 | 240 | B22 | 2800 | 630 | 2000 | 10 |



Dimensions (mm)



- Decorative halogen candle twisted lamp
- 1:1 replacement of Incandescent lamp
- More efficient - more savings
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO2 emissions
- Identical shape as standard incandescent lamp
- For chandeliers and decorative fixtures in domestic and commercial application
- 100% dimmable
- Average rated life 1500 hrs or 2000 hrs - up to two times more average life compared to incandescent lamps



Classic Eco Candle Twisted

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|----------------|---|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0023742 | Classic ECO Twisted Candle 18W E14 | 18 | 230 | E14 | 2800 | 210 | 2000 | 10 |
| 0023718 | Classic ECO Twisted Candle 18W E14 240V | 18 | 240 | E14 | 2800 | 210 | 1500 | 10 |
| 0023735 | Classic ECO Twisted Candle 28W E14 | 28 | 230 | E14 | 2800 | 370 | 2000 | 10 |
| 0023722 | Classic ECO Twisted Candle 28W E14 240V | 28 | 240 | E14 | 2800 | 370 | 2000 | 10 |
| 0023455 | Classic ECO Twisted Candle 42W E14 | 42 | 230 | E14 | 2800 | 630 | 2000 | 10 |
| 0023456 | Classic ECO Twisted Candle 42W E14 240V | 42 | 240 | E14 | 2800 | 630 | 2000 | 10 |



Dimensions (mm)

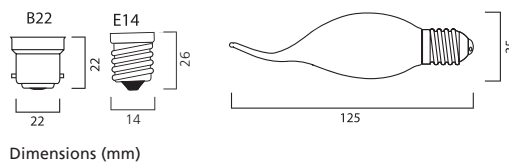


- Decorative halogen candle Bent Tip lamp
- 1:1 replacement of Incandescent lamp
- More efficient - more savings
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO2 emissions
- Identical shape as standard incandescent lamp
- For chandeliers and decorative fixtures in domestic and commercial application
- 100% dimmable
- Average rated life 1500hrs or 2000hrs - up to two times more average life compared to incandescent lamps



Classic Eco Candle Bent Tip

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|-----------------------------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0023734 | Classic ECO Bent-tip 18W E14 | 18 | 230 | E14 | 2800 | 210 | 2000 | 10 |
| 0023728 | Classic ECO Bent-tip 18W E14 240V | 18 | 240 | E14 | 2800 | 210 | 1500 | 10 |
| 0023712 | Classic ECO Bent-tip 18W B22 240V | 18 | 240 | B22 | 2800 | 210 | 1500 | 10 |
| 0023729 | Classic ECO Bent-tip 28W E14 | 28 | 230 | E14 | 2800 | 370 | 2000 | 10 |
| 0023731 | Classic ECO Bent-tip 28W E14 240V | 28 | 240 | E14 | 2800 | 370 | 2000 | 10 |
| 0023727 | Classic ECO Bent-tip 28W B22 240V | 28 | 240 | B22 | 2800 | 370 | 2000 | 10 |



Dimensions (mm)



R50



R63



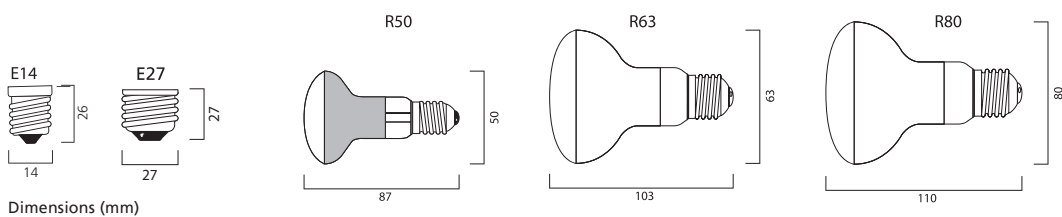
R80

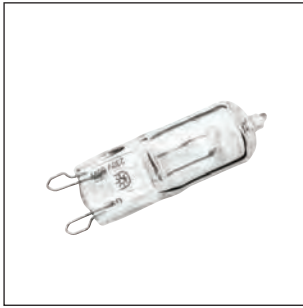
- 1:1 replacement of Incandescent reflector lamps
- More efficient - more savings
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Crisp light output
- Less heat generation than incandescent lamp
- Less CO2 emissions
- Identical shape as standard incandescent lamp
- Commercial and domestic application
- Suitable for shop windows, displays, discos and clubs as well in the home
- For use in track or surface mounted spotlights or in recessed down lights
- 100% dimmable
- Average rated life 2000 hrs - two times more average life compared to incandescent lamps



Classic Eco R50/R63/R80

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|------------------------|------------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| Classic ECO R50 | | | | | | | | | |
| 0023102 | R50 18W 230V E14 FL30° | 18 | 230 | 30 | E14 | 2800 | 200 | 2000 | 10 |
| 0023103 | R50 18W 240V E14 FL30° | 18 | 240 | 30 | E14 | 2800 | 200 | 2000 | 10 |
| 0023120 | R50 28W 230V E14 FL30° | 28 | 230 | 30 | E14 | 2800 | 335 | 2000 | 10 |
| 0023121 | R50 28W 240V E14 FL30° | 28 | 240 | 30 | E14 | 2800 | 335 | 2000 | 10 |
| Classic ECO R63 | | | | | | | | | |
| 0023124 | R63 28W 230V E27 FL30° | 28 | 230 | 30 | E27 | 2800 | 335 | 2000 | 10 |
| 0023125 | R63 28W 240V E27 FL30° | 28 | 240 | 30 | E27 | 2800 | 335 | 2000 | 10 |
| 0023122 | R63 42W 230V E27 FL30° | 42 | 230 | 30 | E27 | 2800 | 570 | 2000 | 10 |
| 0023123 | R63 42W 240V E27 FL30° | 42 | 240 | 30 | E27 | 2800 | 570 | 2000 | 10 |
| Classic ECO R80 | | | | | | | | | |
| 0023127 | R80 28W 240V E27 FL30° | 28 | 240 | 30 | E27 | 2800 | 335 | 2000 | 10 |
| 0023126 | R80 42W 240V E27 FL30° | 42 | 240 | 30 | E27 | 2800 | 570 | 2000 | 10 |
| 0023147 | R80 53W 240V E27 FL30° | 53 | 240 | 30 | E27 | 2800 | 750 | 2000 | 10 |
| 0023148 | R80 70W 240V E27 FL30° | 70 | 240 | 30 | E27 | 2800 | 1080 | 2000 | 10 |
| Classic ECO R95 | | | | | | | | | |
| 0022116 | R90 42W 240V E27 FL30° | 42 | 240 | 30 | E27 | 2800 | 690 | 2000 | 10 |
| 0022117 | R90 70W 240V E27 FL30° | 70 | 240 | 30 | E27 | 2800 | 1500 | 2000 | 10 |



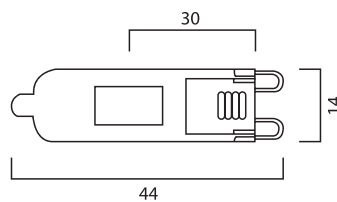


- Xenon technology
- Less CO2 emissions - ECO Friendly
- Less heat generation than standard G9 capsules - more design freedom for luminaire manufacturers
- Compact size
- Integral safety fuse
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- Easy installation with G9 plug-in base
- Transformer free operation
- 100% dimmable
- Average life of 1000hrs or 2000hrs



Hi-Pin G9 Eco

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|----------------|------------------------|----------|----------|-----|-----------------|-------------------------|--------------------------|-------------|
| 0023754 | HI-PIN ECO 18W 230V G9 | 18 | 230 | G9 | 2800 | 210 | 2000 | 10 |
| 0023755 | HI-PIN ECO 18W 240V G9 | 18 | 240 | G9 | 2800 | 210 | 1500 | 10 |
| 0023756 | HI-PIN ECO 28W 230V G9 | 28 | 230 | G9 | 2800 | 370 | 2000 | 10 |
| 0023493 | HI-PIN ECO 28W 240V G9 | 28 | 240 | G9 | 2800 | 370 | 2000 | 10 |
| 0022844 | HI-PIN ECO 42W 230V G9 | 42 | 230 | G9 | 2800 | 630 | 1500 | 10 |
| 0022845 | HI-PIN ECO 42W 240V G9 | 42 | 240 | G9 | 2800 | 630 | 1500 | 10 |
| 0022846 | HI-PIN ECO 53W 230V G9 | 53 | 230 | G9 | 2800 | 850 | 2000 | 10 |
| 0022847 | HI-PIN ECO 53W 240V G9 | 53 | 240 | G9 | 2800 | 850 | 2000 | 10 |



Dimensions (mm)

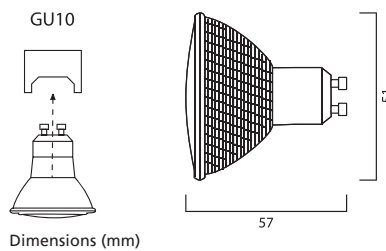
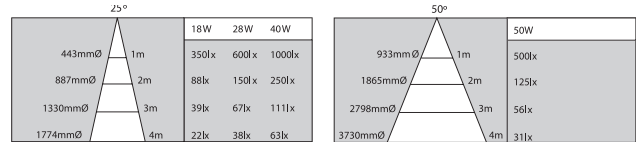


- Xenon technology
- High light intensity
- Unique, patented, spiral faceted reflector
- 100% dimmable
- Integral safety fuse
- For accent or decorative lighting in retail, commercial and domestic applications
- Transformer free operation
- Average rated life of 2000hrs



Hi-Spot® ES50 Eco

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------|-----------------------------|----------|----------|----------------|------|-----------------|-------------------------|--------------------------|-------------|
| Hi-Spot ES50 ECO | | | | | | | | | |
| 0022717 | Hi-Spot ES50 ECO 18W FL25° | 18 | 230 | 25 | GU10 | 2700 | 350 | 2000 | 10 |
| 0022718 | Hi-Spot ES50 ECO 18W FL25° | 18 | 240 | 25 | GU10 | 2700 | 350 | 2000 | 10 |
| 0022719 | Hi-Spot ES50 ECO 28W FL25° | 28 | 230 | 25 | GU10 | 2800 | 600 | 2000 | 10 |
| 0022720 | Hi-Spot ES50 ECO 28W FL25° | 28 | 240 | 25 | GU10 | 2800 | 600 | 2000 | 10 |
| 0022721 | Hi-Spot ES50 ECO 40W FL25° | 40 | 230 | 25 | GU10 | 2800 | 1000 | 2000 | 10 |
| 0022722 | Hi-Spot ES50 ECO 40W FL25° | 40 | 240 | 25 | GU10 | 2800 | 1000 | 2000 | 10 |
| 0022723 | Hi-Spot ES50 ECO 40W WFL50° | 40 | 230 | 50 | GU10 | 2800 | 500 | 2000 | 10 |
| 0022724 | Hi-Spot ES50 ECO 40W WFL50° | 40 | 240 | 50 | GU10 | 2800 | 500 | 2000 | 10 |



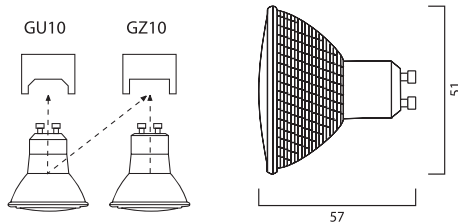
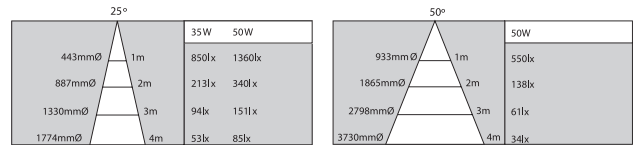


- Unique long life filament
- Xenon gas filling for increased light output
- Unique, patented, spiral faceted aluminised reflector
- For accent or decorative lighting in retail, commercial and domestic applications
- Ceramic base, brass contacts for a robust fitting
- For use in mains voltage GU10/GZ10 downlights, spotlights and luminaires
- Transformer free halogen
- 100% dimmable
- Integral Safety fuse
- Average rated life 4000 hrs



Hi-Spot® ES50/ESD50 Superia

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------------------------------------|--------------------------|----------|----------|----------------|------|-----------------|-------------------------|--------------------------|-------------|
| Hi-Spot ES50 Superia | | | | | | | | | |
| 0022900 | ES50 Superia 35W FL25° | 35 | 230 | 25 | GU10 | 2700 | 850 | 4000 | 10 |
| 0022902 | ES50 Superia 50W FL25° | 50 | 230 | 25 | GU10 | 2750 | 1360 | 4000 | 10 |
| 0022906 | ES50 Superia 50W WFL50° | 50 | 230 | 50 | GU10 | 2750 | 550 | 4000 | 10 |
| 0022901 | ES50 Superia 35W FL25° | 35 | 240 | 25 | GU10 | 2700 | 850 | 4000 | 10 |
| 0022903 | ES50 Superia 50W FL25° | 50 | 240 | 25 | GU10 | 2750 | 1360 | 4000 | 10 |
| 0022907 | ES50 Superia 50W WFL50° | 50 | 240 | 50 | GU10 | 2750 | 550 | 4000 | 10 |
| Hi-Spot ESD50 Dichroic Superia | | | | | | | | | |
| 0022904 | ESD50 Superia 50W FL25° | 50 | 230 | 25 | GZ10 | 2800 | 1360 | 4000 | 10 |
| 0022908 | ESD50 Superia 50W WFL50° | 50 | 230 | 50 | GZ10 | 2800 | 550 | 4000 | 10 |
| 0022905 | ESD50 Superia 50W FL25° | 50 | 240 | 25 | GZ10 | 2800 | 1360 | 4000 | 10 |
| 0022909 | ESD50 Superia 50W WFL50° | 50 | 240 | 50 | GZ10 | 2800 | 550 | 4000 | 10 |



Dimensions (mm)

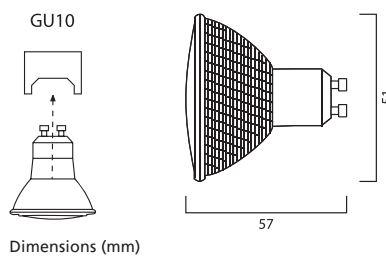
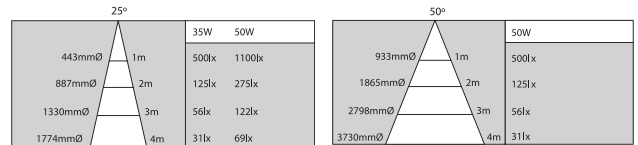


- Unique, patented, spiral faceted aluminised reflector
- Clear front lens for crisp sparkling light
- Integral safety fuse
- Ceramic base
- For use in mains voltage GU10 downlights, spotlights and luminaires
- Transformer free operation
- Average rated life 2500hrs



Hi-Spot® ES50 Home

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|--------------------------|-------------------------|----------|----------|----------------|------|-----------------|-------------------------|--------------------------|-------------|
| Hi-Spot ES50 Home | | | | | | | | | |
| 0021254 | Hi-Spot ES50 35W FL25° | 35 | 230-240 | 25 | GU10 | 2700 | 500 | 2500 | 10 |
| 0021256 | Hi-Spot ES50 50W FL25° | 50 | 230-240 | 25 | GU10 | 2700 | 1100 | 2500 | 10 |
| 0021261 | Hi-Spot ES50 50W WFL50° | 50 | 230-240 | 50 | GU10 | 2700 | 500 | 2500 | 10 |



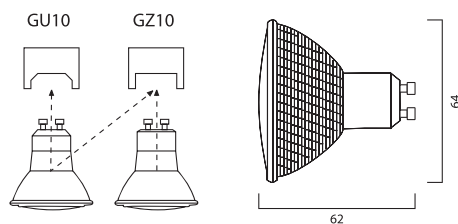
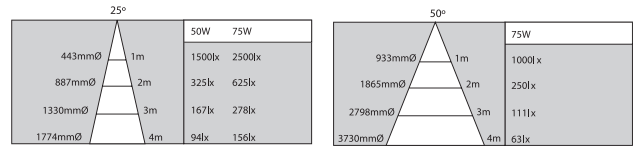


- Halogen light without the need for a transformer
- Installing and changing lamps made easier with the 'twist and lock' GU10 and GZ10 caps
- Unique patented, computer designed spiral faceted reflector
- 100% dimmable
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for outdoor use when protected from contact with water
- Average rated life 2500hrs



Hi-Spot® ES63/ESD63

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|-------------------------------|--------------------------|----------|----------|----------------|------|-----------------|-------------------------|--------------------------|-------------|
| Hi-Spot ES63 | | | | | | | | | |
| 0022266 | Hi-Spot ES63 50W FL25° | 50 | 230 | 25 | GU10 | 2750 | 1500 | 2500 | 15 |
| 0022271 | Hi-Spot ES63 75W FL25° | 75 | 230 | 25 | GU10 | 2800 | 2500 | 2500 | 15 |
| 0022261 | Hi-Spot ES63 75W WFL50° | 75 | 230 | 50 | GU10 | 2800 | 1000 | 2500 | 15 |
| 0022268 | Hi-Spot ES63 50W FL25° | 50 | 240 | 25 | GU10 | 2750 | 1500 | 2500 | 15 |
| 0022274 | Hi-Spot ES63 75W FL25° | 75 | 240 | 25 | GU10 | 2800 | 2500 | 2500 | 15 |
| 0022264 | Hi-Spot ES63 75W WFL50° | 75 | 240 | 50 | GU10 | 2800 | 1000 | 2500 | 15 |
| Hi-Spot ESD63 Dichroic | | | | | | | | | |
| 0022281 | Hi-Spot ESD63 75W FL25° | 75 | 230 | 25 | GZ10 | 2850 | 2500 | 2500 | 15 |
| 0022291 | Hi-Spot ESD63 75W WFL50° | 75 | 230 | 50 | GZ10 | 2850 | 1000 | 2500 | 15 |
| 0022284 | Hi-Spot ESD63 75W FL25° | 75 | 240 | 25 | GZ10 | 2850 | 2500 | 2500 | 15 |



Dimensions (mm)



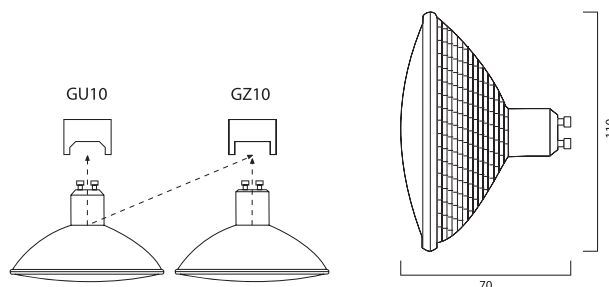
- Mains voltage alternative to Sylvania SA111 aluminium reflector lamp
- With integral anti-glare shield option
- Halogen light without the need for a transformer
- Installing and changing lamps made easier with the 'twist and lock' GU10 and GZ10 caps
- For accent or decorative lighting in retail, commercial and domestic applications
- Average rated life 2000hrs



Hi-Spot® ES111/ESD111 AG

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|--|--------------------------|----------|----------|----------------|------|-----------------|-------------------------|--------------------------|-------------|
| Hi-Spot ES111 without anti-glare | | | | | | | | | |
| 0022221 | Hi-Spot ES111 75W FL24° | 75 | 230 | 24 | GU10 | 2800 | 3000 | 2000 | 15 |
| 0022223 | Hi-Spot ES111 75W FL24° | 75 | 240 | 24 | GU10 | 2800 | 3000 | 2000 | 15 |
| Hi-Spot ES111 with anti-glare | | | | | | | | | |
| 0022224 | Hi-Spot ES111 75W FL24° | 75 | 230 | 24 | GU10 | 2800 | 3500 | 2000 | 15 |
| 0022225 | Hi-Spot ES111 75W FL24° | 75 | 240 | 24 | GU10 | 2800 | 3500 | 2000 | 15 |
| Hi-Spot ESD111 Dichroic with anti-glare | | | | | | | | | |
| 0022227 | Hi-Spot ES111 100W FL24° | 100 | 230 | 24 | GZ10 | 2900 | 5000 | 2000 | 15 |
| 0022226 | Hi-Spot ES111 100W FL24° | 100 | 240 | 24 | GZ10 | 2900 | 5000 | 2000 | 15 |

| | | 75W | 100W |
|---------|----|--------|--------|
| 425mmØ | 1m | 3500lx | 5000lx |
| 850mmØ | 2m | 875lx | 125lx |
| 1275mmØ | 3m | 389lx | 556lx |
| 1700mmØ | 4m | 219lx | 313lx |



Dimensions (mm)

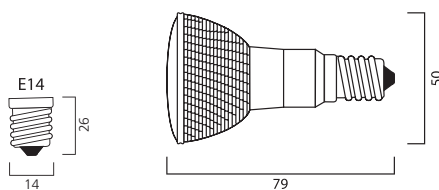
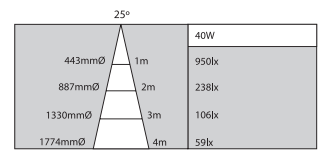


- Retrofit solution for E14 incandescent R50 lamps
- Halogen light without the need for a transformer
- Unique, patented spiral reflector design for uniform beam pattern
- 100% dimmable
- For use in mains voltage E14 cap downlights, spotlights and luminaires
- Average rated life 2000 hrs



Hi-Spot® 50

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|-------------------|----------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| Hi-Spot 50 | | | | | | | | | |
| 0021081 | Hi-Spot 50 40W FL25° | 40 | 230 | 25 | E14 | 2700 | 950 | 2000 | 15 |
| 0021084 | Hi-Spot 50 40W FL25° | 40 | 240 | 25 | E14 | 2700 | 950 | 2000 | 15 |



Dimensions (mm)

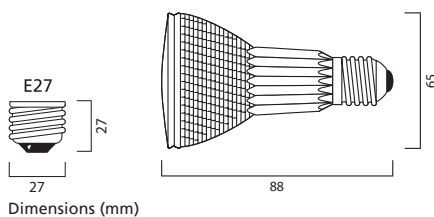
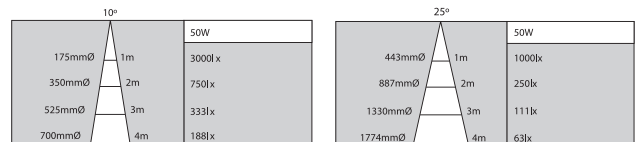


- Halogen light without the need for a transformer
- Unique, patented, spiral faceted aluminised reflector
- 100% dimmable
- For use in mains voltage E27 cap downlights, spotlights and luminaires
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for outdoor use when protected from direct contact with water
- Average rated life 2500hrs - 25% longer life than conventional PAR halogen lamps



Hi-Spot® 63

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------|----------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| 0021125 | Hi-Spot 63 50W SP10° | 50 | 230 | 10 | E27 | 2900 | 3000 | 2500 | 15 |
| 0021126 | Hi-Spot 63 50W FL25° | 50 | 230 | 25 | E27 | 2900 | 1000 | 2500 | 15 |
| 0021127 | Hi-Spot 63 50W SP10° | 50 | 240 | 10 | E27 | 2900 | 3000 | 2500 | 15 |
| 0021128 | Hi-Spot 63 50W FL25° | 50 | 240 | 25 | E27 | 2900 | 1000 | 2500 | 15 |





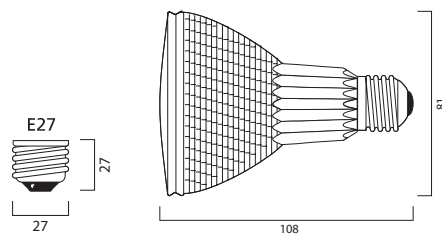
- Halogen light without the need for a transformer
- Unique, patented, spiral faceted aluminised reflector
- 100% dimmable
- For use in mains voltage E27 cap downlights, spotlights and luminaires
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for outdoor use when protected from direct contact with water
- Average rated life 2500hrs or 3000hrs - up to 50% longer than conventional halogen PAR lamps



Hi-Spot® 80 Superia Extralife

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------|----------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| 0021131 | Hi-Spot 80 50W SP10° | 50 | 230 | 10 | E27 | 2900 | 4000 | 2500 | 15 |
| 0021132 | Hi-Spot 80 50W FL25° | 50 | 230 | 25 | E27 | 2900 | 1100 | 2500 | 15 |
| 0021133 | Hi-Spot 80 75W SP10° | 75 | 230 | 10 | E27 | 2900 | 5500 | 3000 | 15 |
| 0021134 | Hi-Spot 80 75W FL25° | 75 | 230 | 25 | E27 | 2900 | 1300 | 3000 | 15 |
| 0021161 | Hi-Spot 80 50W SP10° | 50 | 240 | 10 | E27 | 2900 | 4000 | 2500 | 15 |
| 0021162 | Hi-Spot 80 50W FL25° | 50 | 240 | 25 | E27 | 2900 | 1100 | 2500 | 15 |
| 0021163 | Hi-Spot 80 75W SP10° | 75 | 240 | 10 | E27 | 2900 | 5500 | 3000 | 15 |
| 0021164 | Hi-Spot 80 75W FL25° | 75 | 240 | 25 | E27 | 2900 | 1300 | 3000 | 15 |

| 10° | | 50W | | 75W | | 25° | | 50W | | 75W | |
|--------|----|--------|--------|---------|----|--------|--------|-----|--|-----|--|
| 175mmØ | 1m | 4000lx | 5500lx | 443mmØ | 1m | 1100lx | 1300lx | | | | |
| 350mmØ | 2m | 1000lx | 1375lx | 887mmØ | 2m | 275lx | 325lx | | | | |
| 525mmØ | 3m | 444lx | 611lx | 1330mmØ | 3m | 122lx | 144lx | | | | |
| 700mmØ | 4m | 250lx | 344lx | 1774mmØ | 4m | 69lx | 81lx | | | | |



Dimensions (mm)



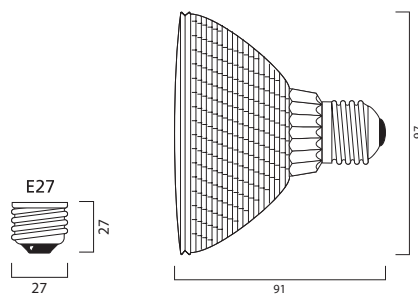
- Halogen light without the need for a transformer
- Unique, patented, spiral faceted aluminised reflector
- 100% dimmable
- For use in mains voltage E27 cap downlights, spotlights and luminaires
- Use dichroic lamps for lighting food, textiles and other objects sensitive to heat
- Suitable for outdoor use when protected from direct contact with water
- Average rated life 3000 hrs - 50% longer life than conventional halogen PAR lamps



Hi-Spot® 95 Superia Extralife

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|------------------------------|----------------------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| Hi-Spot 95 | | | | | | | | | |
| 0021230 | Hi-Spot 95 75W SP10° | 75 | 230 | 10 | E27 | 2900 | 6900 | 3000 | 15 |
| 0021231 | Hi-Spot 95 75W FL30° | 75 | 230 | 30 | E27 | 2900 | 2200 | 3000 | 15 |
| 0021234 | Hi-Spot 95 100W SP10° | 100 | 230 | 10 | E27 | 2900 | 10000 | 3000 | 15 |
| 0021235 | Hi-Spot 95 100W FL30° | 100 | 230 | 30 | E27 | 2900 | 3500 | 3000 | 15 |
| 0021232 | Hi-Spot 95 75W SP10° | 75 | 240 | 10 | E27 | 2900 | 6900 | 3000 | 15 |
| 0021233 | Hi-Spot 95 75W FL30° | 75 | 240 | 30 | E27 | 2900 | 2200 | 3000 | 15 |
| 0021236 | Hi-Spot 95 100W SP10° | 100 | 240 | 10 | E27 | 2900 | 10000 | 3000 | 15 |
| 0021237 | Hi-Spot 95 100W FL30° | 100 | 240 | 30 | E27 | 2900 | 3500 | 3000 | 15 |
| Hi-Spot 95 Dichroic | | | | | | | | | |
| 0021291 | Hi-Spot 95 75W FL30° D | 75 | 230 | 30 | E27 | 2900 | 2400 | 3000 | 15 |
| 0021293 | Hi-Spot 95 75W FL30° D | 75 | 240 | 30 | E27 | 2900 | 2400 | 3000 | 15 |
| Hi-Spot 95 Reinforced | | | | | | | | | |
| 0021274 | Hi-Spot 95 75W SO 10° Reinforced | 75 | 240 | 10 | E27 | 2900 | 8000 | 3000 | 15 |
| 0021275 | Hi-Spot 95 75W FL 30° Reinforced | 75 | 240 | 30 | E27 | 2900 | 2600 | 3000 | 15 |

| 10° | | 75W | | 100W | | 30° | | 75W | | 75W DIC | | 100W | | |
|--------|----|--------|---------|---------|----|--------|--------|--------|-------|---------|-------|-------|-------|-------|
| 175mmØ | 1m | 6900lx | 10000lx | 536mmØ | 1m | 2200lx | 2400lx | 3500lx | 550lx | 600lx | 875lx | 244lx | 267lx | 389lx |
| 350mmØ | 2m | 1725lx | 2500lx | 1072mmØ | 2m | 550lx | 600lx | 875lx | 244lx | 267lx | 389lx | 244lx | 267lx | 389lx |
| 525mmØ | 3m | 767lx | 1111lx | 1608mmØ | 3m | 244lx | 267lx | 389lx | 138lx | 150lx | 219lx | 138lx | 150lx | 219lx |
| 700mmØ | 4m | 431lx | 625lx | 2144mmØ | 4m | 138lx | 150lx | 219lx | | | | | | |



Dimensions (mm)

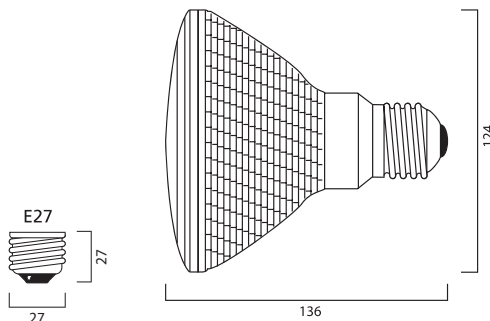
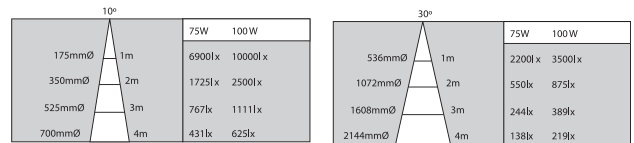


- Halogen light without the need for a transformer
- Unique, patented, spiral faceted aluminised reflector
- 100% dimmable
- For use in mains voltage E27 cap downlights, spotlights and luminaires
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for outdoor use when protected from direct contact with water
- Average rated life 3000hrs - 50% longer than conventional halogen lamps



Hi-Spot® 120

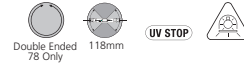
| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Colour Temp (K) | Luminous Intensity (cd) | Average Rated Life (Hrs) | Packing Qty |
|---------|------------------------|----------|----------|----------------|-----|-----------------|-------------------------|--------------------------|-------------|
| 0021141 | Hi-Spot 120 75W FL30° | 75 | 230 | 30 | E27 | 2900 | 2200 | 3000 | 15 |
| 0021144 | Hi-Spot 120 100W SP10° | 100 | 230 | 10 | E27 | 2900 | 10000 | 3000 | 15 |
| 0021145 | Hi-Spot 120 100W FL30° | 100 | 230 | 30 | E27 | 2900 | 3500 | 3000 | 15 |
| 0021142 | Hi-Spot 120 75W SP10° | 75 | 240 | 10 | E27 | 2900 | 6900 | 3000 | 15 |
| 0021143 | Hi-Spot 120 75W FL30° | 75 | 240 | 30 | E27 | 2900 | 2200 | 3000 | 15 |
| 0021146 | Hi-Spot 120 100W SP10° | 100 | 240 | 10 | E27 | 2900 | 10000 | 3000 | 15 |
| 0021147 | Hi-Spot 120 100W FL30° | 100 | 240 | 30 | E27 | 2900 | 3500 | 3000 | 15 |



Dimensions (mm)



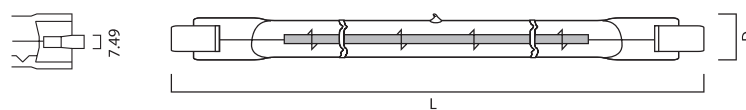
- Xenon technology
- Sparkling light output
- Less CO₂ emissions
- Less heat generation
- Transformer free operation
- Filament support method patented
- Average rated life 1000hrs or 2000hrs - 20% energy savings compared to standard halogen double ended lamps with same light output



Linear Double Ended Eco

| Code | Description | Watt (W) | Volt (V) | Cap | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|------------------------|----------|----------|-----|-----------------|--------------------|--------------------------|-------------|
| 0021529 | DE ECO 78mm 230V 48W | 48 | 230 | R7s | 2900 | 750 | 1000 | 10 |
| 0021530 | DE ECO 78mm 240V 48W | 48 | 240 | R7s | 2900 | 750 | 1000 | 10 |
| 0021531 | DE ECO 78mm 230V 80W | 80 | 230 | R7s | 2900 | 1400 | 1000 | 10 |
| 0021532 | DE ECO 78mm 240V 80W | 80 | 240 | R7s | 2900 | 1400 | 1000 | 10 |
| 0021533 | DE ECO 78mm 230V 120W | 120 | 230 | R7s | 2950 | 2250 | 1000 | 10 |
| 0021534 | DE ECO 78mm 240V 120W | 120 | 240 | R7s | 2950 | 2250 | 1000 | 10 |
| 0021713 | DE ECO 118mm 230V 120W | 120 | 230 | R7s | 2950 | 2250 | 2000 | 10 |
| 0021714 | DE ECO 118mm 240V 120W | 120 | 240 | R7s | 2950 | 2250 | 2000 | 10 |
| 0021715 | DE ECO 118mm 230V 160W | 160 | 230 | R7s | 3000 | 3100 | 2000 | 10 |
| 0021716 | DE ECO 118mm 240V 160W | 160 | 240 | R7s | 3000 | 3100 | 2000 | 10 |
| 0021717 | DE ECO 118mm 230V 230W | 230 | 230 | R7s | 3000 | 4800 | 2000 | 10 |
| 0021718 | DE ECO 118mm 240V 230W | 230 | 240 | R7s | 3000 | 4800 | 2000 | 10 |
| 0021719 | DE ECO 118mm 230V 400W | 400 | 230 | R7s | 3000 | 9000 | 2000 | 10 |
| 0021720 | DE ECO 118mm 240V 400W | 400 | 240 | R7s | 3000 | 9000 | 2000 | 10 |

| | |
|-----|------------------|
| R7s | Double Ended 78 |
| L | 78 |
| D | 10 |
| R7s | Double Ended 118 |
| L | 118 |
| D | 8 |



Dimensions (mm)





INCANDESCENT

SYLVANIA

- | | | |
|-----|--------------------------|---|
| 147 | GLS |  |
| 150 | Candle Lamps |  |
| 151 | Ball Lamps |  |
| 152 | Reflector Lamps |  |
| 154 | Par Lamps |  |
| 155 | Tubular Lamps |  |
| 156 | Pygmy Lamps |  |
| 157 | Striplights/Linear Lamps |  |

Incandescent Lamps

In many countries, incandescent lamps remain the most popular lamps, especially in the home, where they act as the work-horse lighting source. Even in countries where incandescent lamps are no longer available for household non illumination, types are available for special applications such as appliances, low voltages and rough service installation.

Rough Service

A range of conventional shaped main voltage lamps designed for use where high vibration or physical shock are more common.

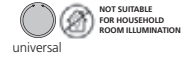
Oven

A family of "pygmy" shaped lamps intended for use in high temperature ovens.



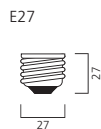


- Standard 'A' shaped incandescent lamp with a clear outer bulb
- Clear sparkling light
- Easy to operate
- Excellent colour reproduction
- Commercial and domestic lighting applications



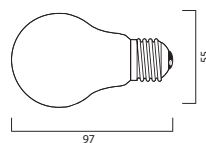
GLS Clear A55

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|--------|------------------------|----------|----------|-----|-------------|--------------------|-------------|
| 000447 | A55 Clear 60W 230V E27 | 60 | 230 | E27 | Clear | 710 | 10 |
| 000448 | A55 Clear 75W 230V E27 | 75 | 230 | E27 | Clear | 1200 | 10 |
| 000446 | A55 Satin 40W 230V E27 | 40 | 230 | E27 | Clear | 415 | 10 |
| 000450 | A55 Clear 40W 230V E27 | 40 | 230 | E27 | Clear | 415 | 10 |
| 000451 | A55 Satin 60W 230V E27 | 60 | 230 | E27 | Clear | 710 | 10 |
| 000452 | A55 Satin 75W 230V E27 | 75 | 230 | E27 | Clear | 1200 | 10 |



Dimensions (mm)

GLS A55



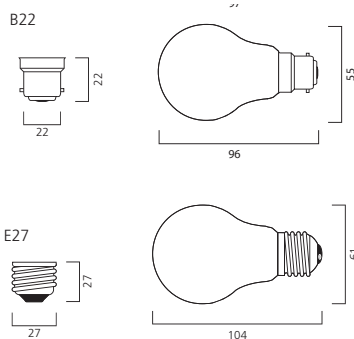


- "A" shaped incandescent lamp for operating on low voltage circuits
- Clear outer bulb
- Suitable for operation on low voltage circuits (24-25V)
- Extended lifetime of 2500 hours for 25W and 40W versions
- 1000 hour lifetime for 60W and 100W versions
- Suitable for emergency lighting, machines, signs and signal panels



GLS

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|------------------------------------|-----------------------|----------|----------|-----|-------------|--------------------|-------------|
| GLS Extra Low Voltage Clear | | | | | | | |
| 0009668 | 25W 24-25V E27 Clear | 25 | 24-25 | E27 | Clear | 380 | 100 |
| 0009696 | 40W 24-25V E27 Clear | 40 | 24-25 | E27 | Clear | 600 | 100 |
| 0009694 | 40W 24-25V B22 Clear | 40 | 24-25 | B22 | Clear | 600 | 100 |
| 0009728 | 60W 24-25V E27 Clear | 60 | 24-25 | E27 | Clear | 960 | 100 |
| 0009780 | 100W 24-25V E27 Clear | 100 | 24-25 | E27 | Clear | 1800 | 100 |



Dimensions (mm)

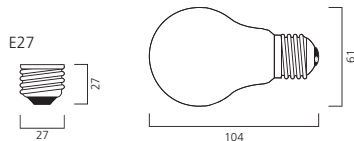


- Extra durable lamp resistant to vibrations
- Ideal for use in industrial and working environments like garages etc
- Available in pearl finish outer bulb
- Extended 1500 hour service life
- Not suitable for household room illumination
- Intended for use in rough service applications



GLS

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|--------------------------|----------------------------|----------|----------|-----|-------------|--------------------|-------------|
| GLS Rough Service | | | | | | | |
| 0029345 | Rough Serv 25W 230V Pearl | 25 | 240 | E27 | Pearl | 170 | 100 |
| 0029364 | Rough Serv 40W 240V Pearl | 40 | 240 | E27 | Pearl | 285 | 100 |
| 0029385 | Rough Serv 60W 240V Pearl | 60 | 240 | E27 | Pearl | 560 | 100 |
| 0029405 | Rough Serv 100W 240V Pearl | 100 | 240 | E27 | Pearl | 1110 | 100 |





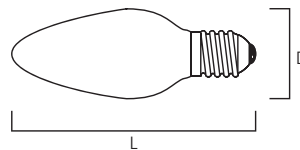
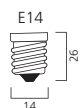
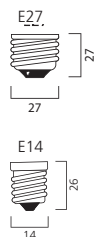
- Candle shaped incandescent lamps
- Lamps have a crystal clear envelope for added sparkle
- Unbeatable colour rendering, Ra=100
- Commercial and domestic decorative lighting applications



Candle

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|---------|----------------------|----------|----------|-----|-------------|--------------------|-------------|
| 0004454 | Candle Clear 40W E14 | 40 | 230 | E14 | Clear | 415 | 10 |
| 0004455 | Candle Clear 60W E14 | 60 | 230 | E14 | Clear | 700 | 10 |
| 0004457 | Candle Satin 40W E14 | 40 | 230 | E14 | Clear | 415 | 10 |
| 0004458 | Candle Satin 60W E14 | 60 | 230 | E27 | Clear | 700 | 10 |
| 0004460 | Candle Clear 40W E27 | 40 | 230 | E27 | Clear | 415 | 10 |
| 0004461 | Candle Clear 60W E27 | 60 | 230 | E27 | Clear | 700 | 10 |
| 0004463 | Candle Satin 40W E27 | 40 | 230 | E27 | Clear | 415 | 10 |
| 0004464 | Candle Satin 60W E27 | 60 | 230 | E27 | Clear | 700 | 10 |

| | E14 | 40W | 60W |
|---|-----|-----|-----|
| L | 97 | 97 | |
| D | 35 | 35 | |
| | E27 | 40W | 60W |
| L | 92 | 92 | |
| D | 35 | 35 | |



Dimensions (mm)



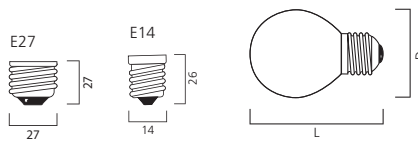
- Round lamp envelope
- Clear finish for sparkling crystal clear light
- E14 and E27 cap
- Suitable for commercial and domestic decorative lighting



Ball

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|---------|--------------------|----------|----------|-----|-------------|--------------------|-------------|
| 0004466 | Ball Clear 40W E14 | 25 | 230 | E14 | Clear | 415 | 10 |
| 0004467 | Ball Clear 60W E14 | 60 | 230 | E14 | Clear | 700 | 10 |
| 0004469 | Ball Satin 40W E14 | 40 | 230 | E14 | Clear | 415 | 10 |
| 0004470 | Ball Satin 60W E14 | 60 | 230 | E14 | Clear | 700 | 10 |
| 0004472 | Ball Clear 40W E27 | 40 | 230 | E27 | Clear | 415 | 10 |
| 0004473 | Ball Clear 60W E27 | 60 | 230 | E27 | Clear | 700 | 10 |
| 0004474 | Ball Satin 60W E27 | 60 | 230 | E27 | Clear | 700 | 10 |
| 0004475 | Ball Satin 40W E27 | 40 | 230 | E27 | Clear | 415 | 10 |

| E14 | 40W | 60W |
|-----|-----|-----|
| L | 73 | 73 |
| D | 45 | 45 |
| E27 | 40W | 60W |
| L | 71 | 71 |
| D | 45 | 45 |



Dimensions (mm)



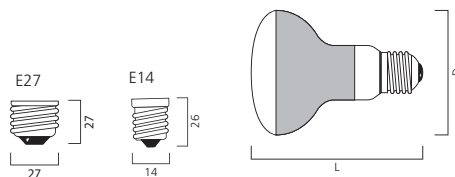
- Blown glass reflector lamps
- Pearl crown and integral aluminium reflector
- Available in 6 diameters
- Ideal for accent lighting in commercial and domestic applications
- Suitable for shop windows, displays, discos and clubs as well as in the home
- For use in track or surface mounted spotlights or in recessed downlights



Reflector

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Luminous Intensity (cd) | Packing Qty |
|-------------------------------------|---------------------|----------|----------|----------------|-----|-------------------------|-------------|
| Reflector Standard R39 39mmØ | | | | | | | |
| 0015908 | 30W 240V R39 Pearl | 30 | 240 | 40 | E14 | 120 | 100 |
| Reflector Standard R50 50mmØ | | | | | | | |
| 0015535 | 25W 240V R50 Pearl | 25 | 240 | 35 | E14 | 175 | 100 |
| Reflector Standard R50 50mmØ | | | | | | | |
| 0015537 | 40W 240V R50 Pearl | 40 | 240 | 35 | E14 | 325 | 100 |
| Reflector Standard R63 63mmØ | | | | | | | |
| 0015550 | 40W 240V R63 Pearl | 40 | 240 | 35 | E27 | 325 | 100 |
| Reflector Standard R63 63mmØ | | | | | | | |
| 0015560 | 60W 240V R63 Pearl | 60 | 240 | 35 | E27 | 560 | 100 |
| Reflector Standard R80 80mmØ | | | | | | | |
| 0015570 | 40W 240V R80 Pearl | 40 | 240 | 80 | E27 | 160 | 100 |
| Reflector Standard R80 80mmØ | | | | | | | |
| 0015580 | 60W 240V R80 Pearl | 60 | 240 | 80 | E27 | 260 | 100 |
| 0015584 | 75W 240V R80 Pearl | 75 | 240 | 80 | E27 | 345 | 100 |
| 0015585 | 100W 240V R80 Pearl | 100 | 240 | 80 | E27 | 500 | 100 |
| Reflector Standard R95 95mmØ | | | | | | | |
| 0015600 | 75W 240V R95 Pearl | 75 | 240 | 35 | E27 | 750 | 20 |
| Reflector Standard R95 95mmØ | | | | | | | |
| 0015620 | 100W 240V R95 Pearl | 100 | 240 | 35 | E27 | 1060 | 20 |

| | | | |
|-----|-----|-----|-----|
| E14 | R39 | R50 | |
| L | 65 | 85 | |
| D | 39 | 50 | |
| E27 | R63 | R80 | R95 |
| L | 103 | 110 | 132 |
| D | 63 | 80 | 95 |



Dimensions (mm)



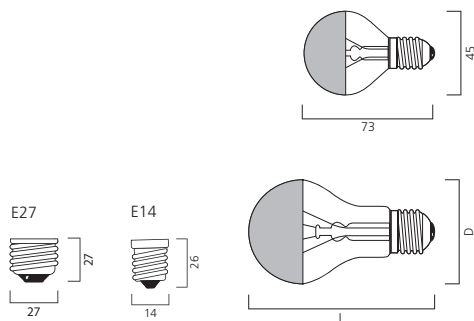
- GLS or round shaped incandescent lamps
- Silvered or gold crown and clear finish envelope
- Delivers an extremely well controlled beam with practically zero glare
- E14 or E27 cap
- Not suitable for household room illumination
- Intended for mirror lighting



Crown

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|-----------------------|-------------------------|----------|----------|-----|-------------|--------------------|-------------|
| Crown Silvered | | | | | | | |
| 0017743 | Ball 25W 240V E14 Clear | 25 | 240 | E14 | Clear | 185 | 100 |
| 0017744 | Ball 40W 240V E14 Clear | 40 | 240 | E14 | Clear | 360 | 100 |
| 0017739 | GLS 40W 240V E27 Clear | 40 | 240 | E27 | Clear | 360 | 100 |
| 0017740 | GLS 60W 240V E27 Clear | 60 | 240 | E27 | Clear | 620 | 100 |
| 0017741 | GLS 75W 240V E27 Clear | 75 | 240 | E27 | Clear | 800 | 100 |
| 0017742 | GLS 100W 240V E27 Clear | 100 | 240 | E27 | Clear | 1170 | 100 |
| Crown Gold | | | | | | | |
| 0017870 | Ball 25W 240V E14 | 25 | 240 | E14 | Clear | 185 | 100 |
| 0017871 | Ball 40W 240V E14 | 40 | 240 | E14 | Clear | 360 | 100 |

| | 40W | 60W | 75W | 100W |
|-----|-----|-----|-----|------|
| E27 | | | | |
| L | 104 | 104 | 104 | 128 |
| D | 60 | 60 | 60 | 65 |



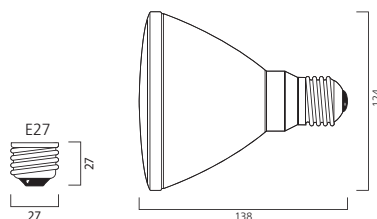


- Incandescent PAR lamps made from heat-resistant borosilicate glass
- Cool Beam version with integral dichroic reflector
- Pressed glass reflector delivers significantly improved efficiency over blown reflector types
- Suitable for exterior lighting
- Weather-resistant



PAR38

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | Crown Finish | Packing Qty |
|----------------|-------------------------|----------|----------|----------------|-----|--------------|-------------|
| 0019691 | 60W/FL/30° PAR38 Clear | 60 | 230-240 | 30 | E27 | Clear | 10 |
| 0019710 | 80W/SP/12° PAR38 Clear | 80 | 230-240 | 12 | E27 | Clear | 10 |
| 0019711 | 80W/FL/30° PAR38 Clear | 80 | 230-240 | 30 | E27 | Clear | 10 |
| 0019720 | 120W/SP/12° PAR38 Clear | 120 | 230-240 | 12 | E27 | Clear | 10 |
| 0019721 | 120W/FL/30° PAR38 Clear | 120 | 230-240 | 30 | E27 | Clear | 10 |



Dimensions (mm)

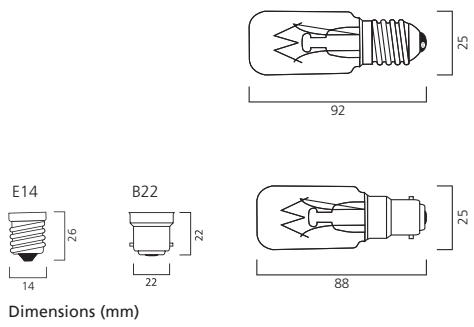


- Krypton gas filling offering more light versus standard clear lamps
- E14 or B22 cap
- Not suitable for household room illumination
- Intended for use in special applications including ovens and refrigerators



Tubular Clear

| Code | Description | Watt (W) | Volt (V) | Cap | Crown Finish | Luminous Intensity (cd) | Packing Qty |
|----------------|--------------------|----------|----------|-----|--------------|-------------------------|-------------|
| 0007352 | 25W 230V E14 Clear | 25 | 230 | E14 | Clear | 230 | 100 |
| 0007360 | 40W 230V E14 Clear | 40 | 230 | E14 | Clear | 415 | 100 |
| 0007362 | 40W 230V B22 Clear | 40 | 230 | B22 | Clear | 415 | 100 |



Dimensions (mm)



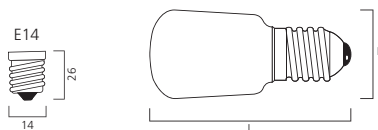
- Small compact incandescent lamps, high temperature resistant
- Clear or pearl finish
- E14 cap
- Not suitable for household room illumination
- Intended for use in special applications including ovens, refrigerators and other household appliances



Pygmy

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|----------------------------------|--------------------------|----------|----------|-----|-------------|--------------------|-------------|
| Pygmy Special Application | | | | | | | |
| 0008100 | 15W 240V E14 Clear | 15 | 240 | E14 | Clear | 100 | 100 |
| 0008120 | 25W 240V E14 Clear | 25 | 240 | E14 | Clear | 225 | 100 |
| Pygmy Oven till 300°C | | | | | | | |
| 0008072 | 15W 240V E14 22mm Ø Oven | 15 | 240 | E14 | Clear | 80 | 100 |
| Pygmy Refrigerator | | | | | | | |
| 0007339 | 15W 230V E14 Clear | 15 | 230 | E14 | Clear | 85 | 100 |

| | | |
|--------------------|-----|-----|
| Pygmy | 15W | 25W |
| L | 63 | 63 |
| D | 28 | 28 |
| Pygmy Oven | 15W | |
| L | 63 | |
| D | 28 | |
| Pygmy Refrigerator | 15W | |
| L | 55 | |
| D | 25 | |



Dimensions (mm)



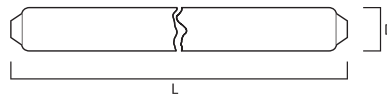
- Double-ended linear incandescent lamps
- Clear or opal finish
- Available in three lengths - 221mm, 284mm and 310mm
- S15s and S19 cap
- Bathroom, bedroom and kitchen luminaires. Cupboard lighting and over mirrors



Striplights

| Code | Description | Watt (W) | Volt (V) | Cap | Length (mm) | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|----------------|--------------------------|----------|----------|------|-------------|-------------|--------------------|-------------|
| 9007550 | 30W 240-250V S15s Clear | 30 | 240-250 | S15s | 221 | Clear | 270 | 50 |
| 9007597 | 60W 240-250V S15s Clear | 60 | 240-250 | S15s | 284 | Clear | 500 | 25 |
| 9007565 | 40W 220-235V S19 Frosted | 40 | 230 | S19 | 310 | Frosted | 335 | 25 |
| 9007590 | 60W 220-235V S19 Frosted | 60 | 230 | S19 | 310 | Frosted | 530 | 25 |
| 9007607 | 75W 220-235V S19 Frosted | 75 | 230 | S19 | 310 | Frosted | 680 | 25 |

| S15s | 30W | 60W | |
|------|-----|-----|-----|
| L | 221 | 284 | |
| D | 25 | 25 | |
| S19 | 40W | 60W | 75W |
| L | 310 | 310 | 310 |
| D | 38 | 38 | 38 |



Dimensions (mm)



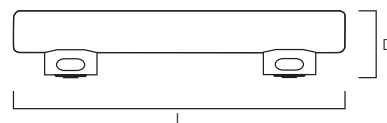
- Double-ended linear incandescent lamps
- Opal finish
- Available in three lengths - 300mm, 500mm and 999mm
- S14d and S14s cap
- Bathroom, bedroom and kitchen luminaires. Cupboard lighting and over mirrors



Linear Architectural

| Code | Description | Watt (W) | Volt (V) | Cap | Lamp Finish | Luminous Flux (lm) | Packing Qty |
|----------------|-------------------------|----------|----------|------|-------------|--------------------|-------------|
| 0007433 | 35W 220-235V S14d Opal | 35 | 230-240 | S14d | Opal | 270 | 25 |
| 0007435 | 35W 220-235V S14s Opal | 35 | 230-240 | S14s | Opal | 270 | 25 |
| 0007448 | 60W 220-235V S14d Opal | 60 | 230-240 | S14d | Opal | 420 | 25 |
| 0007450 | 60W 220-235V S14s Opal | 60 | 230-240 | S14s | Opal | 420 | 25 |
| 0007463 | 120W 220-235V S14s Opal | 120 | 230-240 | S14s | Opal | 840 | 16 |

| S14d | 35W | 60W | 120W |
|------|-----|-----|------|
| L | 221 | 284 | - |
| D | 25 | 25 | - |
| S14s | 35W | 60W | 120W |
| L | 300 | 500 | 999 |
| D | 26 | 26 | 26 |



Dimensions (mm)



SPECIAL APPLICATIONS

SYLVANIA

161 Photo Optic



170 Petcare



182 Food Display



188 SAD



189 Infra Red



194 Blacklight



197 Germicidal



199 Bodycare



Special Application Lamps

Sylvania offers a comprehensive range of lamps to meet a diverse range of specialist applications.

Photo Optic

Sylvania offers a wide and competitive range of lamps specifically designed for photo and projection applications.

Used by photographers and in film and slide projectors; photo labs and mini-labs are also an important application. The market for studio, stage, theatre and disco is rapidly growing with demand now shifting towards high pressure metal halide lamps. BriteArc is the ideal solution for these applications. With a small arc gap, it is ideal to optimally concentrate the light and produce a strong beam.

Petcare

If you need to replace natural light – whether for plants, aquariums or terrariums – Sylvania has an extensive collection of lighting solutions available for you. For example, Sylvania's GROLUX is a world leader in plant illumination. Proper light and UV-radiation is very important for fish and reptiles. Our lighting engineers have developed lamps with specific light spectra for the most diverse uses. Either independently or in combination, Sylvania Aquarium and Terrarium lamps deliver the best results for complex biological requirements. Whether for plants, fish, corals, reptiles, or the entire biotope of aquariums and terrariums - with Sylvania you'll find the appropriate lighting.

Insect Trapping and Disinfection

Flying insects such as the common house fly, wasps, midges etc. carry up to 4 million pathogenic bacteria. Their presence is totally unacceptable in areas where hygiene is paramount. Sylvania offer a wide range of UV-A lamps in various lengths and diameters to attract these insects. Sylvania lamps are utilised in many brands of insect traps. Micro-organisms such as bacteria, moulds, yeasts etc can be destroyed or removed by physical, biological, and chemical methods. UV-C radiation destroys or inactivates the micro organism so that it can no longer multiply. Our extensive range of germicidal and blacklight lamps are ideal for generating the right sterilising effect.





Features

- Transparent lens in real natural coloured glass
- Pure, saturated beam colours without the usual rainbow-effect halo
- Four colours available: red, yellow, green and blue
- Unique, patented, computer designed spiral faceted aluminised reflector
- Available in medium flood version: 25°



Applications

- To bring a touch of colour in a wide range of applications
- Architectural features
- Discos and clubs
- Decorative lighting

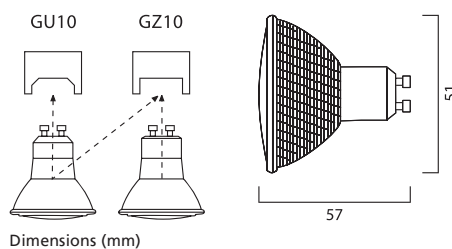
Directions for use

- For use in mains voltage fixtures with GU10 base
- Universal burning
- Suitable for exterior use in conjunction with waterproof fixtures
- Can be dimmed using standard dimming switches

Hi-Spot ES50 GU10 Coloured

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Luminous Intensity (cd) | Colour | Cap | Average Rated Life (Hrs) | Packing Qty |
|---------|------------------------------|----------|----------|----------------|-------------------------|--------|------|--------------------------|-------------|
| 0021270 | Hi-Spot ES50 50W Blue 240V | 50 | 240 | 25 | 30 | Blue | GU10 | 2500 | 10 |
| 0021271 | Hi-Spot ES50 50W Green 240V | 50 | 240 | 25 | 130 | Green | GU10 | 2500 | 10 |
| 0021272 | Hi-Spot ES50 50W Red 240V | 50 | 240 | 25 | 225 | Red | GU10 | 2500 | 10 |
| 0021273 | Hi-Spot ES50 50W Yellow 240V | 50 | 240 | 25 | 550 | Yellow | GU10 | 2500 | 10 |

| 25° | | | | | |
|---------|----|------|-------|-------|-------|
| 443mmØ | 1m | 30lx | 130lx | 225lx | 550lx |
| 887mmØ | 2m | 8lx | 33lx | 56lx | 138lx |
| 1330mmØ | 3m | 3lx | 14lx | 25lx | 61lx |
| 1774mmØ | 4m | 2lx | 8lx | 14lx | 34lx |





240V 80W Green



240V 80W Yellow



240V 80W Blue



240V 80W Red

Features

- Parabolic-shaped reflector made from hard glass
- Coloured front lens
- Choice of four colours: Blue, Green Red, and Yellow



Applications

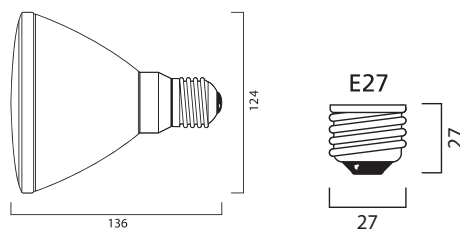
- Mainly used in commercial accent lighting
- To create special effects in bars, clubs and discos and in shop window displays

Directions for use

- For use in mains voltage fixtures with E27 base
- Universal burning
- E27 cap
- Can be dimmed using standard dimming switch

PAR 38 Coloured

| Code | Description | Watt (W) | Volt (V) | Cap | Packing Qty |
|---------|------------------------|----------|----------|-----|-------------|
| 0019650 | 80W/FL30° PAR38 blue | 80 | 24 | E27 | 10 |
| 0019651 | 80W/FL30° PAR38 green | 80 | 240 | E27 | 10 |
| 0019652 | 80W/FL30° PAR38 red | 80 | 240 | E27 | 10 |
| 0019653 | 80W/FL30° PAR38 yellow | 80 | 240 | E27 | 10 |



Dimensions (mm)



F18 Red 18W



F18 Yellow 18W



F18 Green 18W



F18 Blue 18W



F18 Pink 18W

| | | | |
|-----|-----|------|------|
| G13 | 18W | 36W | 58W |
| L | 590 | 1200 | 1500 |
| D | 26 | 26 | 26 |

Features

- High quality fluorescent tubes
- Long life
- Available in five colours: Blue, Green, Red, Pink and Yellow

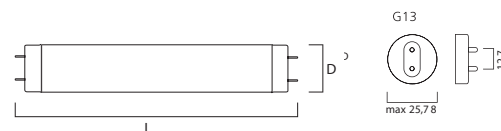
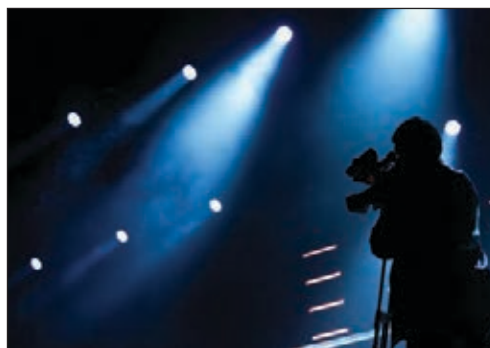
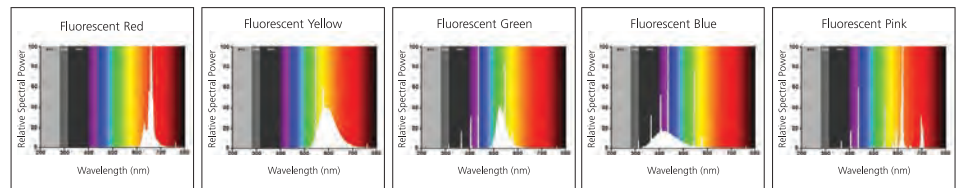


Applications

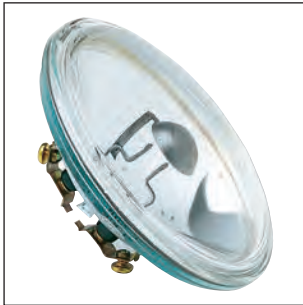
- To create special lighting effects in shop windows, bars, fairground attractions, dance halls and discotheques

T8 Coloured

| Code | Description | Watt (W) | Colour | Cap | Luminous Flux (lm) | Packing Qty |
|---------|-------------|----------|--------|-----|--------------------|-------------|
| 0002572 | F18W/T8/R | 18 | Red | G13 | 30 | 25 |
| 0002573 | F36W/T8/R | 36 | Red | G13 | 70 | 25 |
| 0002574 | F58W/T8/R | 58 | Red | G13 | 100 | 25 |
| 0002561 | F18W/T8/Y | 18 | Yellow | G13 | 750 | 25 |
| 0002565 | F36W/T8/Y | 36 | Yellow | G13 | 1550 | 25 |
| 0002569 | F58W/T8/Y | 58 | Yellow | G13 | 2500 | 25 |
| 0002562 | F18W/T8/G | 18 | Green | G13 | 1200 | 25 |
| 0002566 | F36W/T8/G | 36 | Green | G13 | 2800 | 25 |
| 0002570 | F58W/T8/G | 58 | Green | G13 | 4000 | 25 |
| 0002563 | F18W/T8/B | 18 | Blue | G13 | 300 | 25 |
| 0002567 | F36W/T8/B | 36 | Blue | G13 | 700 | 25 |
| 0002571 | F58W/T8/B | 58 | Blue | G13 | 1000 | 25 |
| 0002560 | F18W/T8/P | 18 | Pink | G13 | 750 | 25 |
| 0002564 | F36W/T8/P | 36 | Pink | G13 | 1700 | 25 |
| 0002568 | F58W/T8/P | 58 | Pink | G13 | 2600 | 25 |



Dimensions (mm)



PAR 36

Features

- Pressed glass reflector lamps
- Beam patterns: from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Economical light source for effects
- Halogen version delivers maintained beam intensity throughout life

Applications

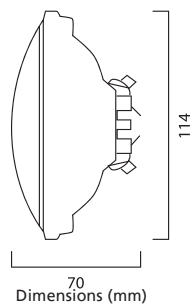
- Entertainment and Architectural applications
- Displays
- Museums
- Exhibitions
- Gardens
- Discos

Directions for use

- Easy handling
- Can be used with very economical fixtures (PAR cans)

PAR 36

| Code | Description | ANSI | Watt (W) | Volt (V) | Beam | Approx Beam Spread 10% Peak CD (°) | Base | Peak Intensity (cd) | Colour Temp (K) | Average Rated Life (Hrs) | Burning Position | Packing Qty |
|---------|-----------------------|-------|----------|----------|------------------|------------------------------------|----------------|---------------------|-----------------|--------------------------|------------------|-------------|
| 0060500 | PAR 36 6.4V 30W Disco | H4515 | 30 | 6.4 | Very Narrow Spot | 5x5 | Screw Terminal | 55000 | 3200 | 200 | Any | 12 |
| 9020167 | PAR 36 12.8V 30W | H4405 | 30 | 12.8 | Very Narrow Spot | 6x5 | Screw Terminal | 50000 | 3200 | 100 | Any | 12 |
| 0060508 | PAR 36 12V 50W VNSP | - | 50 | 12 | Very Narrow Spot | 6x6 | Screw Terminal | 19000 | 3000 | 2000 | Any | 12 |
| 0060503 | PAR 36 120V 650W | DWE | 650 | 120 | Medium Flood | 40x30 | Screw Terminal | 24000 | 3200 | 100 | H15 | 12 |





PAR 36 12V 100W

Features

- Pressed glass reflector lamps
- Beam patterns : from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Instant replaceability without the need to re-focus and re-aim fixtures



Applications

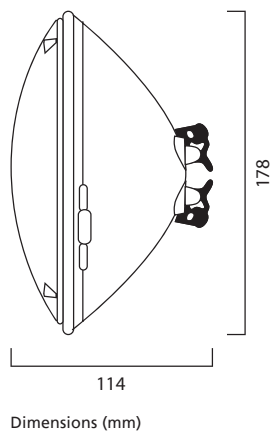
- Theatre lighting
- TV and studio
- Entertainment and Architectural applications
- Displays
- Museums
- Churches
- Towers
- Exhibitions
- Gardens
- Discos

Directions for use

- Easy handling
- Can be used with very economical fixtures (PAR cans)

PAR 56 Low Voltage

| Code | Description | ANSI | Watt (W) | Volt (V) | Beam | Approx Beam Spread 10% Peak CD (°) | Base | Peak Intensity (cd) | Colour Temp (K) | Average Rated Life (Hrs) | Burning Position | Packing Qty |
|---------|-----------------|-------|----------|----------|------|------------------------------------|----------------|---------------------|-----------------|--------------------------|------------------|-------------|
| 0060509 | PAR 56 12V 100W | H4545 | 100 | 12 | Spot | 9x5 | Screw Terminal | 225000 | 3200 | 100 | Any | 12 |





PAR56 300W NSP



PAR56 300W MFL



PAR56 300W WFL

Features

- Pressed glass reflector lamps
- Beam patterns: from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Instant replaceability without the need to re-focus and re-aim fixtures



Applications

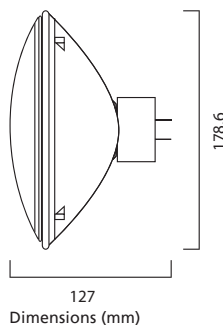
- Theatre lighting
- TV and studio
- Entertainment and Architectural applications
- Displays
- Museums
- Churches
- Towers
- Exhibitions
- Gardens
- Discos

Directions for use

- Easy handling
- Can be used with very economical fixtures (PAR cans)

PAR 56 Mains Voltage

| Code | Description | Watt (W) | Volt (V) | Beam Type | Approx Beam Spread 10% Peak CD (°) | Approx Beam Spread 50% Peak CD (°) | Base | Peak Intensity (cd) | Colour Temp (K) | Average Rated Life (Hrs) | Burning Position | Packing Qty |
|---------|----------------------|----------|----------|--------------|------------------------------------|------------------------------------|-------|---------------------|-----------------|--------------------------|------------------|-------------|
| 0060513 | PAR 56 300W NSP 240V | 300 | 240 | Narrow Spot | 20x14 | 10x8 | GX16d | 70000 | 2750 | 2000 | Any | 12 |
| 0060514 | PAR 56 300W MFL 240V | 300 | 240 | Medium Flood | 34x19 | 23x11 | GX16d | 30000 | 2750 | 2000 | Any | 12 |
| 0060515 | PAR 56 300W WFL 240V | 300 | 240 | Wide Flood | 57x27 | 37x18 | GX16d | 10000 | 2750 | 2000 | Any | 12 |





PAR56 12V 300 Swimming Pool

Features

- Low voltage (12V) for safety reasons
- Heat resistant glass
- Sturdily constructed lamp absorbs mechanical shocks
- Wide beam



Applications

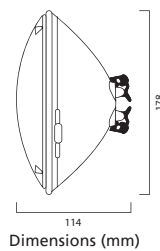
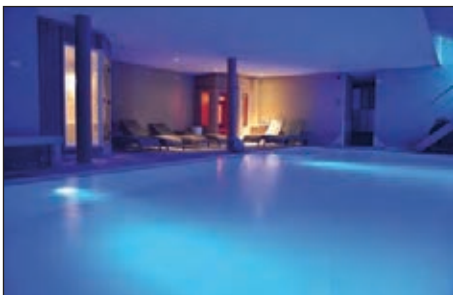
- Swimming Pools
- Fountains

Directions for use

- High running current (25A)

PAR 56 12V Swimming Pool

| Code | Description | Watt (W) | Volt (V) | Approx Beam Spread Hor. x Vert Degrees (°) | Base | Peak Intensity (cd) | Colour Temp (K) | Average Rated Life (Hrs) | Burning Position | Packing Qty |
|---------|-------------------------------|----------|----------|--|-------|---------------------|-----------------|--------------------------|------------------|-------------|
| 9061532 | PAR 56 12V 300W Swimming Pool | 300 | 12 | 50 x 25 | Screw | 12000 | 2850 | 100 | S45 | 12 |





Remote Control

Receiver

Features

- Choice between RGB or fixed white version
- High power LED retrofit for incandescent PAR lamps
- Produces full spectrum of rich colours or white (multi colours)
- Sylvania patent pending colour control technology
- Simple on/off switching sets colour changing or fixed mode (can be achieved by using a standard switch)
- Optional Sylvania remote control and receiver available
- Identical shape to incandescent PAR56 = easy retrofit
- Unique sealing method guarantees IP68 water-tightness
- Die cast aluminium housing cools LEDs for high output
- Chlorine-resistant materials permits use in swimming pools
- Long lamp lifetime > 25.000 hours
- Low heat generation



Applications

- All retrofit PAR56 underwater
- Swimming Pools
- Fountains

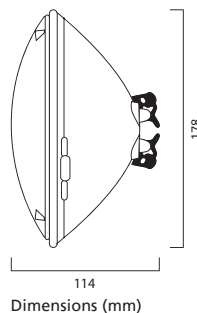
Directions for use

- Only for use with magnetic (no electronic) transformer
- For adequate cooling, lamp must be operated under water

PAR 56 12V LED Swimming Pool

| Code | Description | Watt (W) | Volt (V) | Current (A) | Peak Intensity (Hz) | Base | Average Rated Life (Hrs) | Packing Qty |
|---------|---|----------|-------------|-------------|---------------------|-----------------|--------------------------|-------------|
| 0060527 | PAR56 LED LAMP RGB + Multicolour (18 LED) | 25 | 12 | - | - | Screw lugs | 25000 | - |
| 0060528 | PAR56 LED LAMP White (12 LED) | 20 | 12 | - | - | Screw lugs | 25000 | - |
| 0060523 | PAR 56 LED Receiver | max. 250 | 100/250 | max. 1A | 50/60 | Screw Terminals | - | 6 |
| 0060522 | PAR 56 LED Remote Control | - | 12V Battery | - | - | - | - | 6 |

The Sylvania PAR56 LED represents a top class professional development for underwater illumination of swimming pools, fountains etc. By combining high power LEDs of red, green and blue or fixed white colour, together with an internal microprocessor, it is capable of generating the full spectrum of colours. The lamp can be operated in a mode of continuous colour changing, or fixed at any desired colour by briefly switching off and back on again. This is facilitated by the optional Sylvania remote control and receiver.





PAR64 CP601000W NSP



PAR64 CP61 1000W SP



PAR64 CP62 1000W MFL

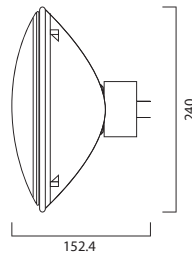
Features

- Pressed glass reflector lamps
- Extremely powerful beam
- Halogen inner capsule, for 100% lumen maintenance through life
- Beam patterns: from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Instant replaceability without the need to re-focus and re-aim fixtures
- Double internal fused for end of life safety



Applications

- Theatre lighting
- TV and studio
- Entertainment and Architectural applications
- Displays
- Museums
- Churches
- Towers
- Exhibitions
- Gardens
- Discos



Dimensions (mm)



PAR 64 Mains Voltage

| Code | Description | ANSI | LIF | Watt (W) | Volt (V) | Beam Type | Approx Beam Spread 10% Peak CD | Approx Beam Spread 50% Peak CD | Base | Peak Intensity (cd) | Colour Temp (K) | Average Rated Life (Hrs) | Burning Position | Packing Qty |
|---------|-----------------------------|------|------|----------|----------|------------------|--------------------------------|--------------------------------|-------|---------------------|-----------------|--------------------------|------------------|-------------|
| 9061146 | PAR 64 CP86 240V 500W VNSP | - | CP86 | 500 | 240 | Very Narrow Spot | 16x13 | 10x7 | Gx16d | 240000 | 3200 | 300 | Any | 6 |
| 9061147 | PAR 64 CP87 240V 500W NSP | - | CP87 | 500 | 240 | Narrow Spot | 19x16 | 11x9 | Gx16d | 140000 | 3200 | 300 | Any | 6 |
| 9061148 | PAR 64 CP88 240V 500W MFL | - | CP88 | 500 | 240 | Medium Flood | 32x19 | 21x10 | Gx16d | 65000 | 3200 | 300 | Any | 6 |
| 9061109 | PAR 64 CP60 240V 1000W NSP | EXC | CP60 | 1000 | 240 | Narrow Spot | 20x17 | 12x6 | Gx16d | 400000 | 3200 | 300 | Any | 6 |
| 9061127 | PAR 64 CP61 240V 1000W SP | EXD | CP61 | 1000 | 240 | Spot | 23x20 | 14x7 | Gx16d | 275000 | 3200 | 300 | Any | 6 |
| 9061128 | PAR 64 CP62 240V 1000W MFL | EXE | CP62 | 1000 | 240 | Medium Flood | 39x24 | 28x12 | Gx16d | 130000 | 3200 | 300 | Any | 6 |
| 9061129 | PAR 64 CP95 240V 1000W XWFL | EXG | CP95 | 1000 | 240 | Extra Wide Flood | 125x95 | 70x70 | Gx16d | 15000 | 3200 | 300 | Any | 6 |



Packaging Note: The sleeve pictured is for the retail product

Features

- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo synthesis in plants
- Oldest, but most optimal light colour for plants and aquaria
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New T5 $\ell 8$: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

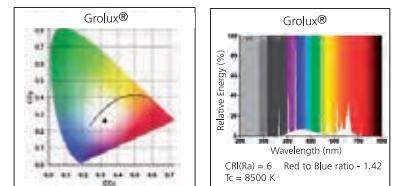


Applications

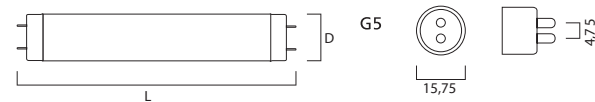
- For lighting of fresh water aquariums
- Complete or additional artificial lighting of plants
- Recommended also for use in greenhouses, indoor gardens, flower

Grolux T5

| Code | Description | Watt (W) | Colour | Cap | Diameter | Packing Qty |
|---------|---------------------------------|----------|--------|-----|----------|-------------|
| 0000026 | F8W/GRO | 8 | GroLux | G5 | T5 | 25 |
| 0002740 | FHO24W/GRO | 24 | GroLux | G5 | T5 | 25 |
| 0002743 | FHO39W/GRO | 39 | GroLux | G5 | T5 | 25 |
| 0002746 | FHO54W/GRO | 54 | GroLux | G5 | T5 | 25 |
| 0002749 | FHO80W/GRO | 80 | GroLux | G5 | T5 | 25 |
| 0000728 | FHO24W/GRO Retail | 24 | GroLux | G5 | T5 | 10 |
| 0000729 | FHO39W/GRO Retail | 39 | GroLux | G5 | T5 | 10 |
| 0000730 | FHO54W/GRO Retail | 54 | GroLux | G5 | T5 | 10 |
| 0002821 | F24W T5 $\ell 8$ Gro-Lux Retail | 24 | GroLux | G5 | T5 | 10 |
| 0002823 | F28W T5 $\ell 8$ Gro-Lux Retail | 28 | GroLux | G5 | T5 | 10 |
| 0002825 | F35W T5 $\ell 8$ Gro-Lux Retail | 35 | GroLux | G5 | T5 | 10 |
| 0002827 | F45W T5 $\ell 8$ Gro-Lux Retail | 45 | GroLux | G5 | T5 | 10 |
| 0002829 | F54W T5 $\ell 8$ Gro-Lux Retail | 54 | GroLux | G5 | T5 | 10 |
| 0002831 | F54W T5 $\ell 8$ Gro-Lux Retail | 54 | GroLux | G5 | T5 | 10 |



| | | | | | |
|-------------|-----|-----|-----|------|------|
| T5 Standard | 8W | 24W | 39W | 54W | 80W |
| L | 288 | 549 | 849 | 1149 | 1449 |
| D | 16 | 16 | 16 | 16 | 16 |
| T5 $\ell 8$ | 24W | 28W | 35W | 45W | 54W |
| L | 438 | 590 | 742 | 895 | 1047 |
| D | 16 | 16 | 16 | 16 | 16 |



Dimensions (mm)



Packaging Note: The sleeve pictured is for the retail product

Features

- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo-synthesis in plants
- Oldest, but most optimal light colour for plants and aquaria

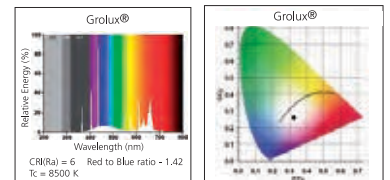


Applications

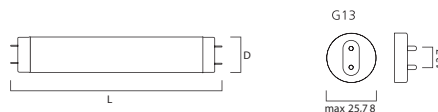
- For lighting of fresh water aquariums
- Complete or additional artificial lighting of plants
- Recommended for use in greenhouses, indoor gardens, flower shows and conservatories

Grolux T8/Minilyn

| Code | Description | Watt (W) | Colour | Cap | Diameter | Packing Qty |
|---------|---------------------|----------|---------|-----|----------|-------------|
| 0000043 | F14W/GRO | 14 | Gro-Lux | G13 | T8 | 25 |
| 0000069 | F15W/GRO | 15 | Gro-Lux | G13 | T8 | 25 |
| 0001523 | F18W/GRO | 18 | Gro-Lux | G13 | T8 | 25 |
| 0001679 | F25W/30"/GRO | 25 | Gro-Lux | G13 | T8 | 25 |
| 0000150 | F30W/GRO | 30 | Gro-Lux | G13 | T8 | 25 |
| 0001524 | F36W/GRO | 36 | Gro-Lux | G13 | T8 | 25 |
| 0002213 | F38W/GRO | 38 | Gro-Lux | G13 | T8 | 25 |
| 0001525 | F58W/GRO | 58 | Gro-Lux | G13 | T8 | 25 |
| 0000707 | F14W/GRO Retail | 14 | Gro-Lux | G13 | T8 | 10 |
| 0000708 | F15W/GRO Retail | 15 | Gro-Lux | G13 | T8 | 10 |
| 0000709 | F18W/GRO Retail | 18 | Gro-Lux | G13 | T8 | 10 |
| 0000710 | F25W/30"/GRO Retail | 25 | Gro-Lux | G13 | T8 | 10 |
| 0000711 | F30W/GRO Retail | 30 | Gro-Lux | G13 | T8 | 10 |
| 0000712 | F36W/GRO Retail | 36 | Gro-Lux | G13 | T8 | 10 |
| 0000713 | F38W/GRO Retail | 38 | Gro-Lux | G13 | T8 | 10 |
| 0000714 | F58W/GRO Retail | 58 | Gro-Lux | G13 | T8 | 10 |



| | | | | |
|----|-----|------|------|------|
| T8 | 14W | 15W | 18W | 25W |
| L | 361 | 438 | 590 | 742 |
| D | 26 | 26 | 26 | 26 |
| T8 | 30W | 36W | 38W | 58W |
| L | 895 | 1200 | 1047 | 1500 |
| D | 26 | 26 | 26 | 26 |



Dimensions (mm)



Packaging Note: The sleeve pictured is for the retail product

Features

- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New T5 $\ell 8$: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium



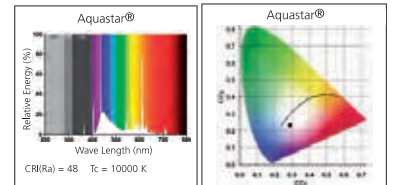
Applications

- For all biological organisms in fresh and marine water aquariums
- Excellent results in combination with Daylightstar

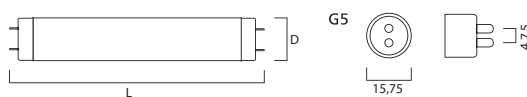
Aquastar T5

| Code | Description | Watt (W) | Colour Temp (K) | Light Output (lm) | Cap | Diameter | Packing Qty |
|---------|----------------------------------|----------|-----------------|-------------------|-----|----------|-------------|
| 0002741 | FHO24W/Aquastar | 24 | 10000 | 1120 | G5 | T5 | 25 |
| 0002744 | FHO39W/Aquastar | 39 | 10000 | 1960 | G5 | T5 | 25 |
| 0002747 | FHO54W/Aquastar | 54 | 10000 | 2800 | G5 | T5 | 25 |
| 0002750 | FHO80W/Aquastar | 80 | 10000 | 3500 | G5 | T5 | 25 |
| 0002752 | FHO24W/Aquastar Retail | 24 | 10000 | 1120 | G5 | T5 | 10 |
| 0002753 | FHO39W/Aquastar Retail | 39 | 10000 | 1960 | G5 | T5 | 10 |
| 0002754 | FHO54W/Aquastar Retail | 54 | 10000 | 2800 | G5 | T5 | 10 |
| 0002820 | F24W T5 $\ell 8$ Aquastar Retail | 24 | 10000 | 900 | G5 | T5 | 10 |
| 0002822 | F28W T5 $\ell 8$ Aquastar Retail | 28 | 10000 | 1200 | G5 | T5 | 10 |
| 0002824 | F35W T5 $\ell 8$ Aquastar Retail | 35 | 10000 | 1700 | G5 | T5 | 10 |
| 0002826 | F45W T5 $\ell 8$ Aquastar Retail | 45 | 10000 | 2100 | G5 | T5 | 10 |
| 0002828 | F54W T5 $\ell 8$ Aquastar Retail | 54 | 10000 | 2500 | G5 | T5 | 10 |
| 0002830 | F54W T5 $\ell 8$ Aquastar Retail | 54 | 10000 | 2900 | G5 | T5 | 10 |

Packaging Note: The sleeve pictured is for retail sales



| | | | | | | |
|-------------|-----|-----|------|------|------|------|
| T5 Standard | 24W | 39W | 54W | 80W | | |
| L | 549 | 849 | 1149 | 1449 | | |
| D | 16 | 16 | 16 | 16 | | |
| T5 $\ell 8$ | 24W | 28W | 35W | 45W | 54W | 54W |
| L | 438 | 590 | 742 | 895 | 1047 | 1200 |
| D | 16 | 16 | 16 | 16 | 16 | 16 |



Dimensions (mm)



Packaging Note: The sleeve pictured is for the retail product

Features

- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance

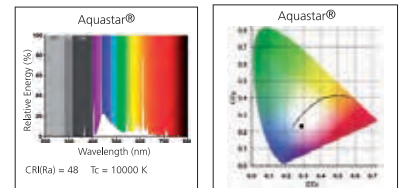


Applications

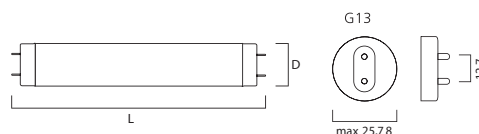
- For all biological organisms in fresh and marine water aquariums

Aquastar T8

| Code | Description | Watt (W) | Colour Temp (K) | Light Output (lm) | Cap | Diameter | Packing Qty |
|---------|--------------------------|----------|-----------------|-------------------|-----|----------|-------------|
| 0002212 | F14W/Aquastar | 14 | 10000 | 525 | G13 | T8 | 25 |
| 0002224 | F15W/Aquastar | 15 | 10000 | 650 | G13 | T8 | 25 |
| 0002221 | F18W/Aquastar | 18 | 10000 | 900 | G13 | T8 | 25 |
| 0002226 | F25W/30"/Aquastar | 25 | 10000 | 1500 | G13 | T8 | 25 |
| 0002225 | F30W/Aquastar | 30 | 10000 | 1700 | G13 | T8 | 25 |
| 0002222 | F36W/Aquastar | 36 | 10000 | 2200 | G13 | T8 | 25 |
| 0002185 | F38W/Aquastar | 38 | 10000 | 2100 | G13 | T8 | 25 |
| 0002223 | F58W/Aquastar | 58 | 10000 | 3550 | G13 | T8 | 25 |
| 0000727 | F14W/Aquastar Retail | 14 | 10000 | 525 | G13 | T8 | 10 |
| 0000643 | F15W/Aquastar Retail | 15 | 10000 | 650 | G13 | T8 | 10 |
| 0000644 | F18W/Aquastar Retail | 18 | 10000 | 900 | G13 | T8 | 10 |
| 0000645 | F25W/30"/Aquastar Retail | 25 | 10000 | 1500 | G13 | T8 | 10 |
| 0000646 | F30W/Aquastar Retail | 30 | 10000 | 1700 | G13 | T8 | 10 |
| 0000647 | F36W/Aquastar Retail | 36 | 10000 | 2200 | G13 | T8 | 10 |
| 0000648 | F38W/Aquastar Retail | 38 | 10000 | 2100 | G13 | T8 | 10 |
| 0000649 | F58W/Aquastar Retail | 58 | 10000 | 3550 | G13 | T8 | 10 |



| | | | | |
|----|-----|------|------|------|
| T8 | 14W | 15W | 18W | 25W |
| L | 361 | 438 | 590 | 742 |
| D | 26 | 26 | 26 | 26 |
| T8 | 30W | 36W | 38W | 58W |
| L | 895 | 1200 | 1047 | 1500 |
| D | 26 | 26 | 26 | 26 |



Dimensions (mm)



Packaging Note: The sleeve pictured is for the retail product

Features

- Reduces algae growth through a special UV-STOP protective sleeve
- Allows fish and plants to be seen in their true colours (high colour rendition)
- 5000K triphosphor lamp with a daylight character
- High colour rendition
- Long life

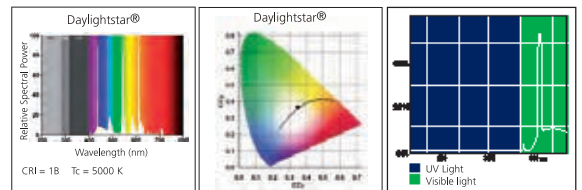


Applications

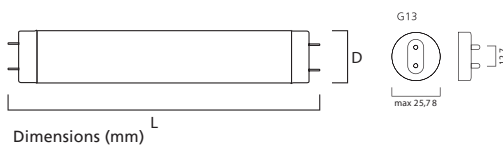
- For use in fresh water aquariums
- In combination with Grolux® it produces a well balanced and optimal aquarium life

Daylightstar T8

| Code | Description | Watt (W) | Colour | Cap | Diameter | Packing Qty |
|---------|--------------------------|----------|--------------|-----|----------|-------------|
| 0000715 | F15W/Daylightstar Retail | 15 | Daylightstar | G13 | T8 | 10 |
| 0000716 | F18W/Daylightstar Retail | 18 | Daylightstar | G13 | T8 | 10 |
| 0000717 | F30W/Daylightstar Retail | 30 | Daylightstar | G13 | T8 | 10 |
| 0000718 | F36W/Daylightstar Retail | 36 | Daylightstar | G13 | T8 | 10 |



| | | | | |
|----|-----|-----|-----|------|
| T8 | 15W | 18W | 30W | 36W |
| L | 438 | 590 | 895 | 1200 |
| D | 26 | 26 | 26 | 26 |





Packaging Note: The sleeve pictured is for the retail product

Features

- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New 5 l8: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

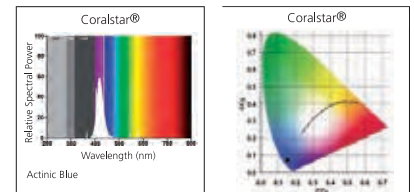


Applications

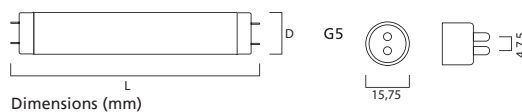
- Lighting to promote growth of coral and invertebrates in marine water aquariums

Coralstar T5

| Code | Description | Watt (W) | Colour | Cap | Diameter | Packing Qty |
|---------|-----------------------------|----------|---------|-----|----------|-------------|
| 0002742 | FHO24W/Coralstar | 24 | Actinic | G5 | T5 | 25 |
| 0002745 | FHO39W/Coralstar | 39 | Actinic | G5 | T5 | 25 |
| 0002748 | FHO54W/Coralstar | 54 | Actinic | G5 | T5 | 25 |
| 0002751 | FHO80W/Coralstar | 80 | Actinic | G5 | T5 | 25 |
| 0002755 | FHO39W/Coralstar Retail | 28 | Actinic | G5 | T5 | 10 |
| 0002756 | FHO54W/Coralstar Retail | 45 | Actinic | G5 | T5 | 10 |
| 0002757 | F28W T5 ø8 Coralstar Retail | 54 | Actinic | G5 | T5 | 10 |
| 0002758 | F45W T5 ø8 Coralstar Retail | 45 | Actinic | G5 | T5 | 10 |
| 0002759 | F54W T5 ø8 Coralstar Retail | 54 | Actinic | G5 | T5 | 10 |



| | | | | |
|-------------|-----|-----|------|------|
| T5 Standard | 24W | 39W | 54W | 80W |
| L | 549 | 849 | 1149 | 1449 |
| D | 16 | 16 | 16 | 16 |
| T5 ø8 | 24W | 45W | 54W | |
| L | 590 | 895 | 1200 | |
| D | 16 | 16 | 16 | |





Packaging Note: The sleeve pictured is for the retail product

Features

- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)

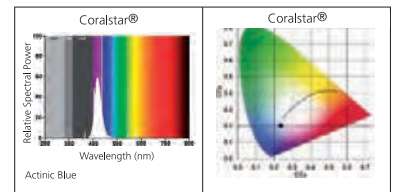


Applications

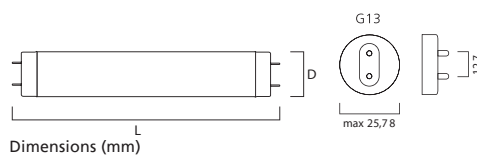
- Lighting to promote growth of coral and invertebrates in marine water aquariums

Coralstar T8

| Code | Description | Watt (W) | Colour | Cap | Diameter | Packing Qty |
|---------|-----------------------|----------|---------|-----|----------|-------------|
| 0000719 | F18W/Coralstar Retail | 18 | Actinic | G13 | T8 | 10 |
| 0000725 | F30W/Coralstar Retail | 30 | Actinic | G13 | T8 | 10 |
| 0000726 | F36W/Coralstar Retail | 36 | Actinic | G13 | T8 | 10 |



| | | | |
|----|-----|-----|------|
| T8 | 18W | 30W | 36W |
| L | 590 | 895 | 1200 |
| D | 26 | 26 | 26 |





Packaging Note: The sleeve pictured is for the retail product

Features

- Ideal lamp for marine lighting.
- High colour rendering of the marine aquatic environment
- High colour temperature: 15000K
- Reproduces light conditions found at coral reefs through radiation in the 420-510 mm wavelength
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- Much bright light output than Coralstar and less blue



Applications

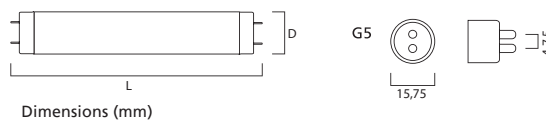
- Lighting of marine water aquaria

Marinestar T5 15000K

| Code | Description | Watt (W) | Colour Temp (K) | Cap | Diameter | Packing Qty |
|---------|------------------------|----------|-----------------|-----|----------|-------------|
| 0002720 | FHO24W/Marinestar | 24 | 15000 | G5 | T5 | 25 |
| 0002721 | FHO39W/Marinestar | 39 | 15000 | G5 | T5 | 25 |
| 0002722 | FHO54W/Marinestar | 54 | 15000 | G5 | T5 | 25 |
| 0002723 | FHO80W/Marinestar | 80 | 15000 | G5 | T5 | 25 |
| 0002725 | F24W/Marinestar Retail | 24 | 15000 | G13 | T5 | 10 |
| 0002726 | F39W/Marinestar Retail | 39 | 15000 | G13 | T5 | 10 |
| 0002727 | F54W/Marinestar Retail | 54 | 15000 | G13 | T5 | 10 |
| 0002728 | F80W/Marinestar Retail | 80 | 15000 | G13 | T5 | 10 |



| T5 Standard | 24W | 39W | 54W | 80W |
|-------------|-----|-----|------|------|
| L | 549 | 849 | 1149 | 1449 |
| D | 16 | 16 | 16 | 16 |





Packaging Note: The sleeve pictured is for the retail product

Features

- Promotes vitamin D3 production which aids good health, growth and the general well-being of reptiles in terrariums through a high content of UVB (up to 5%) and UVA (up to 30%)
- This full spectrum (6500 K) lamp improves the natural appearance of reptiles
- Shows reptiles in their true colours



Applications

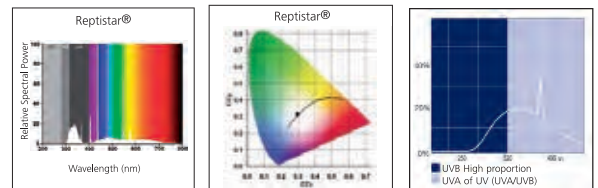
- For the artificial lighting of reptiles in terrariums

Directions for use

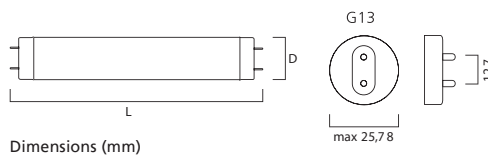
- This lamp emits UV-radiation. Avoid exposure to skin and eyes

Reptistar T8

| Code | Description | Watt (W) | Colour | Cap | Light Output (lm) | Diameter | Packing Qty |
|---------|--------------------------------|----------|-----------|-----|-------------------|----------|-------------|
| 0000731 | F15W/Reptistar UV-B 5% Retail | 15 | Reptistar | G13 | 300 | T8 | 10 |
| 0000732 | F18W/Reptistar UV-B 5% Retail | 18 | Reptistar | G13 | 450 | T8 | 10 |
| 0000733 | F30W/Reptistar UV-B 5% Retail | 30 | Reptistar | G13 | 700 | T8 | 10 |
| 0000734 | F36W/Reptistar UV-B 5% Retail | 36 | Reptistar | G13 | 1000 | T8 | 10 |
| 0000741 | F15W/Reptistar UV-B 10% Retail | 15 | Reptistar | G13 | 300 | T8 | 10 |
| 0000742 | F18W/Reptistar UV-B 10% Retail | 18 | Reptistar | G13 | 450 | T8 | 10 |
| 0000743 | F30W/Reptistar UV-B 10% Retail | 30 | Reptistar | G13 | 700 | T8 | 10 |
| 0000744 | F36W/Reptistar UV-B 10% Retail | 36 | Reptistar | G13 | 1000 | T8 | 10 |



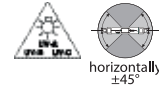
| T8 | 15W | 18W | 30W | 36W |
|----|-----|-----|-----|------|
| L | 361 | 438 | 895 | 1200 |
| D | 26 | 26 | 26 | 26 |





Features

- High light output and good efficiency
- High colour rendering
- Very high colour stability over the whole lamp life
- High colour temperature (10000K)
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed



Applications

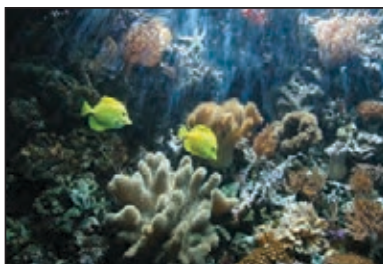
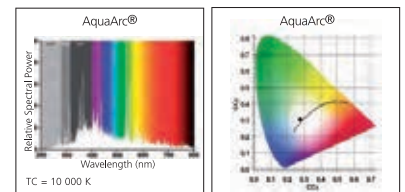
- For use in fresh and seawater aquaria
- Strong directional light which penetrates deep into large tanks
- Lifelike appearance of fish, corals and plants

Directions for use

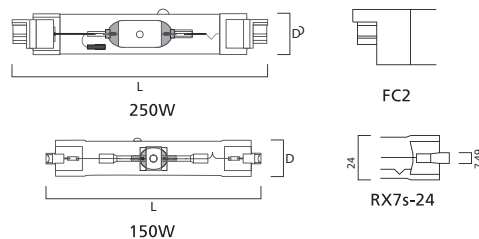
- Burning position: horizontal $\pm 45^\circ$
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off pointing up-see instructions supplied with lamp
- This lamp emits UV-radiation. Avoid exposure to skin and eyes
- Not suitable for household room illumination

Aqua arc

| Code | Description | Watt (W) | Volt (V) | Current (A) | Cap | Bulb Finish | Colour Temp (K) | Chromaticity Coordinate x | Chromaticity Coordinate y | Light Output (lm) | Packing Qty |
|----------------|---------------------|----------|----------|-------------|------|-------------|-----------------|---------------------------|---------------------------|-------------------|-------------|
| 0021049 | HSI-TD 150W AquaArc | 150 | 100 | 1.80 | RX7s | clear | 10000 | 0.277 | 0.311 | 9000 | 10 |
| 0021050 | HSI-TD 250W AquaArc | 250 | 100 | 3.00 | Fc2 | clear | 10000 | 0.275 | 0.323 | 14000 | 10 |



| | 150W | 250W |
|---|------|------|
| L | 135 | 162 |
| D | 25 | 28 |

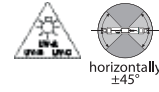


Dimensions (mm)



Features

- Very high colour temperature 20000K (bluish light)
- Very high colour stability over the entire lamp life
- Enhanced colour rendition
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed



Applications

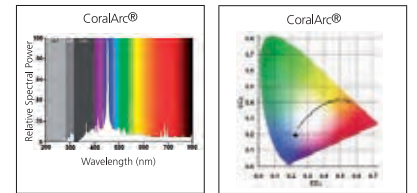
- For use in sea water aquaria
- Provides the specific spectrum (400-480 nm) necessary to achieve the blue chlorophyll absorption for zooxanthellae symbioses to develop

Directions for use

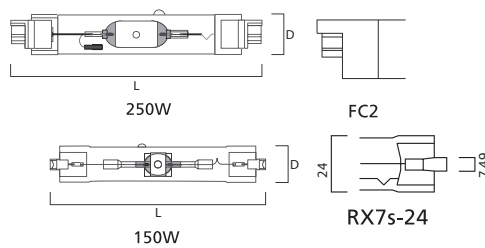
- Burning position: horizontal $\pm 45^\circ$
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off up - see instructions supplied with lamp
- This lamp emits UV-radiation. Avoid exposure to skin and eyes
- Not suitable for household room illumination

Coralarc

| Code | Description | Watt (W) | Volt (V) | Current (A) | Cap | Bulb Finish | Colour | Chromaticity Coordinate x | Chromaticity Coordinate y | Light Output (lm) | Packing Qty |
|---------|----------------------|----------|----------|-------------|------|-------------|--------|---------------------------|---------------------------|-------------------|-------------|
| 0021028 | HSI-TD 150W CoralArc | 150 | 100 | 1.80 | Rx7s | Clear | Blue | 0.261 | 0.257 | 5400 | 10 |
| 0021029 | HSI-TD 250W CoralArc | 250 | 100 | 3.00 | Fc2 | Clear | Blue | 0.257 | 0.243 | 8000 | 10 |



| | 150W | 250W |
|---|------|------|
| L | 135 | 162 |
| D | 25 | 28 |



Dimensions (mm)



Features

- Converts electric current into infrared radiation



Applications

- Provides the necessary infrared radiation for reptiles in terrariums and for other pets like hamsters, mice etc

Directions for use

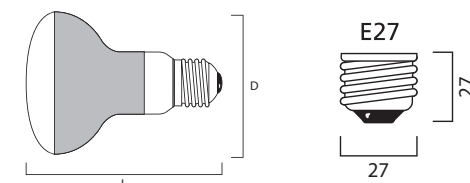
- Not suitable for household room illumination

Infrared Reflector

| Code | Description | Watt (W) | Volt (V) | Type | Cap | Average Rated Life (Hrs) | Packing Qty |
|----------------|-------------|----------|----------|----------|-----|--------------------------|-------------|
| 0033005 | IR R63 50W | 50 | 230 | Infrared | E27 | 5000 | 10 |
| 0033006 | IR R63 75W | 75 | 230 | Infrared | E27 | 5000 | 10 |
| 0033007 | IR R80 100W | 100 | 230 | Infrared | E27 | 5000 | 10 |



| | 50W | 75W | 100W |
|---|-----|-----|------|
| L | 103 | 103 | 110 |
| D | 63 | 63 | 80 |



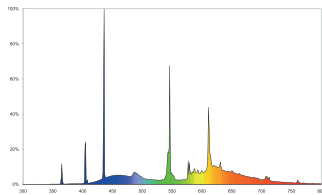
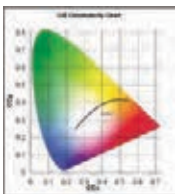
Dimensions (mm)



T8



T8



- Features a specially tailored spectrum that complements the natural colours of meats
- Illuminates meat and charcuterie in their optimum colours for an irresistible presentation
- The truthful colour rendering does not disturb the natural colours of the products
- Manufactured in compliance with the DIN 10504 standard
- Available in Toughcoat-version (shatter proof). The protective FEP coating meets the IEC600682-75 pendulum hammer test (5 Joule) and 4m drop test demonstrating excellent glass retention in the event of accidental lamp breakage



foodstar Meat - Fluorescent

| Code | Description | Watt (W) | Volt (V) | Current (mA) | Length (mm) | CRI | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|------------------------------|----------|----------|--------------|-------------|-----|-----|-----------------|--------------------|-------------|
| 0001854 | FHE 14W T5 176 FoodStar Meat | 14 | 86 | 0.165 | 549 | 2A | G5 | 3000 | 650 | 25 |
| 0001819 | FHE 21W T5 176 FoodStar Meat | 21 | 126 | 0.165 | 849 | 2A | G5 | 3000 | 1050 | 25 |
| 0001820 | FHE 28W T5 176 FoodStar Meat | 28 | 166 | 0.170 | 1449 | 2A | G5 | 3000 | 1500 | 25 |
| 0001821 | FHE 35W T5 176 FoodStar Meat | 35 | 205 | 0.175 | 1449 | 2A | G5 | 3000 | 1850 | 25 |
| 0001855 | F18W T8 176 FoodStar Meat | 18 | 57 | 0.370 | 590 | 2A | G13 | 3000 | 700 | 25 |
| 0001856 | F30W T8 176 FoodStar Meat | 30 | 96 | 0.365 | 895 | 2A | G13 | 3000 | 1250 | 25 |
| 0001816 | F36W T8 176 FoodStar Meat | 36 | 103 | 0.430 | 1200 | 2A | G13 | 3000 | 1800 | 25 |
| 0001817 | F36W T8 1M 176 FoodStar Meat | 36 | 80 | 0.560 | 970 | 2A | G13 | 3000 | 1600 | 25 |
| 0001818 | F58W T8 176 FoodStar Meat | 58 | 110 | 0.670 | 1500 | 2A | G13 | 3000 | 2850 | 25 |
| 0001857 | F70W T8 176 FoodStar Meat | 70 | 128 | 0.700 | 1764 | 2A | G13 | 3000 | 3250 | 25 |

foodstar Meat - Fluorescent Toughcoat™

| Code | Description | Watt (W) | Volt (V) | Current (mA) | Length (mm) | CRI | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|---------------------------------|----------|----------|--------------|-------------|-----|-----|-----------------|--------------------|-------------|
| 0001787 | FHE 14W T5 176 FoodStar Meat TC | 14 | 86 | 0.165 | 549 | 2A | G5 | 3000 | 650 | 25 |
| 0001788 | FHE 21W T5 176 FoodStar Meat TC | 21 | 126 | 0.165 | 849 | 2A | G5 | 3000 | 1050 | 25 |
| 0001789 | FHE 28W T5 176 FoodStar Meat TC | 28 | 166 | 0.170 | 1149 | 2A | G5 | 3000 | 1500 | 25 |
| 0001790 | FHE 35W T5 176 FoodStar Meat TC | 35 | 205 | 0.175 | 1449 | 2A | G5 | 3000 | 1850 | 25 |
| 0001791 | F18W T8 176 FoodStar Meat TC | 18 | 57 | 0.370 | 590 | 2A | G13 | 3000 | 700 | 25 |
| 0001792 | F30W T8 176 FoodStar Meat TC | 30 | 96 | 0.365 | 895 | 2A | G13 | 3000 | 1250 | 25 |
| 0001793 | F36W T8 176 FoodStar Meat TC | 36 | 103 | 0.430 | 1200 | 2A | G13 | 3000 | 1800 | 25 |
| 0001794 | F36W T8 1M 176 FoodStar Meat TC | 36 | 80 | 0.560 | 970 | 2A | G13 | 3000 | 1600 | 25 |
| 0001795 | F58W T8 176 FoodStar Meat TC | 58 | 110 | 0.670 | 1500 | 2A | G13 | 3000 | 2850 | 25 |
| 0001796 | F70W T8 176 FoodStar Meat TC | 70 | 128 | 0.700 | 1764 | 2A | G13 | 3000 | 3250 | 25 |

| | A | B | B | C | D |
|--------|--------|--------|--------|--------|-----|
| T8 | max | min | max | max | nom |
| 18W | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 30W | 894.6 | 899.3 | 901.7 | 908.8 | 26 |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 36W 1M | 970.0 | 974.1 | 977.1 | 984.2 | 26 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |
| 70W | 1763.8 | 1768.5 | 1770.9 | 1778.0 | 26 |

| | A | B | B | C | D |
|-----|------|--------|--------|--------|-----|
| T5 | max | min | max | max | nom |
| 14W | 549 | 553.7 | 556.1 | 563.2 | 16 |
| 21W | 849 | 853.7 | 856.1 | 863.2 | 16 |
| 28W | 1149 | 1153.7 | 1156.1 | 1163.2 | 16 |
| 35W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |



Dimensions (mm)

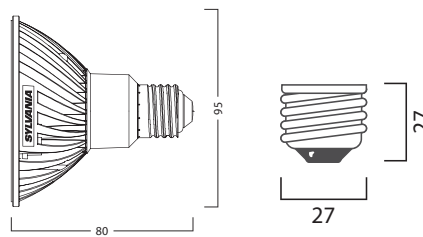
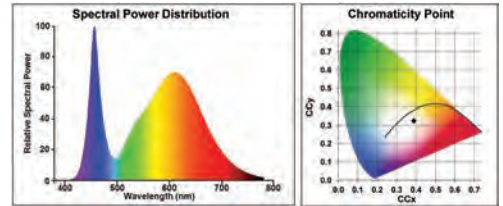


- Full retrofit LED for standard halogen lamps
- High energy saving: Compared to special colour halogen lamps
- Very long life: 25000hrs with more than 100000 switches
- Features a specially tailored spectrum that complements the natural colours of meats illuminates meat and charcuterie in their optimum colours for irresistible presentation
- The truthful colour rendering does not disturb the natural colours of the products
- Integrated electrical isolating transformer for highest safety, even in humid conditions



foodstar Meat - RefLED

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | CRI | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|----------------|--|----------|----------|----------------|-----|-----|-----------------|--------------------|--------------------------|-------------|
| 0001774 | Hi-Spot 95 RefLED 9W 25° Foodstar Meat | 10 | 220-240 | 25 | E27 | 85 | 3500 | 350 | 25000 | 10 |



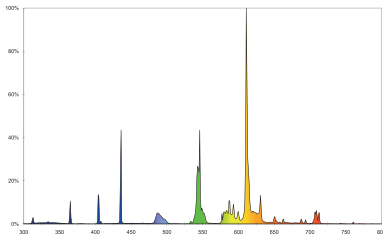
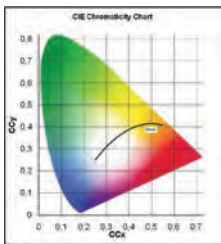
Dimensions (mm)



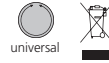
T8



T5



- FoodStar bread lamps have a radiation concentrated in the yellowish part of the spectrum
- Truthful colour rendering does not disturb the natural colours of the products
- Reduced warm up of the goods illuminated
- Available in Toughcoat-version (shatter proof). The protective FEP coating meets the IEC600682-75 pendulum hammer test (5 Joule) and 4m drop test demonstrating excellent glass retention in the event of accidental lamp breakage



foodstar Bread - Fluorescent

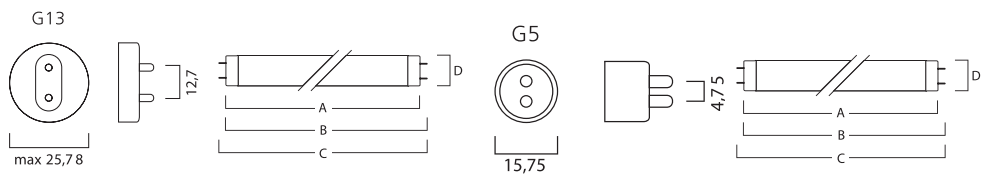
| Code | Description | Watt (W) | Volt (V) | Current (mA) | Length (mm) | CRI | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|------------------------------|----------|----------|--------------|-------------|-----|-----|-----------------|--------------------|-------------|
| 0001858 | FHE 21W T5 FoodStar Bread | 21 | 126 | 0.165 | 849 | 2A | G5 | 2300 | 1650 | 25 |
| 0001859 | FHE 28W T5 FoodStar Bread | 28 | 166 | 0.170 | 1149 | 2A | G5 | 2300 | 2250 | 25 |
| 0001860 | FHE 35W T5 FoodStar Bread | 35 | 205 | 0.175 | 1449 | 2A | G5 | 2300 | 2850 | 25 |
| 0001861 | F18W T8 FoodStar Bread | 18 | 57 | 0.370 | 590 | 2A | G13 | 2300 | 1100 | 25 |
| 0001862 | F30W T8 FoodStar Bread | 30 | 96 | 0.365 | 895 | 2A | G13 | 2300 | 2100 | 25 |
| 0001863 | F36W T8 FoodStar Bread | 36 | 103 | 0.430 | 1200 | 2A | G13 | 2300 | 3000 | 25 |
| 0001864 | F58W T8 FoodStar Bread | 58 | 110 | 0.670 | 1500 | 2A | G13 | 2300 | 4500 | 25 |

foodstar Bread - Fluorescent Toughcoat™

| Code | Description | Watt (W) | Volt (V) | Current (mA) | Length (mm) | CRI | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|---------------------------------|----------|----------|--------------|-------------|-----|-----|-----------------|--------------------|-------------|
| 0001797 | FHE 21W T5 FoodStar Bread TC | 21 | 126 | 0.165 | 849 | 2A | G5 | 2300 | 1650 | 25 |
| 0001798 | FHE 28W T5 FoodStar Bread TC | 28 | 166 | 0.170 | 1149 | 2A | G5 | 2300 | 2250 | 25 |
| 0001799 | FHE 35W T5 FoodStar Bread TC | 35 | 205 | 0.175 | 1449 | 2A | G5 | 2300 | 2850 | 25 |
| 0001800 | F18W T8 FoodStar Bread TC | 18 | 57 | 0.370 | 590 | 2A | G13 | 2300 | 1100 | 25 |
| 0001801 | F30W T8 FoodStar Bread TC | 30 | 96 | 0.365 | 895 | 2A | G13 | 2300 | 2100 | 25 |
| 0001802 | F36W T8 FoodStar Bread TC | 36 | 103 | 0.430 | 1200 | 2A | G13 | 2300 | 3000 | 25 |
| 0001803 | F58W T8 FoodStar Bread TC | 58 | 110 | 0.670 | 1500 | 2A | G13 | 2300 | 4500 | 25 |

| | A | B | B | C | D |
|-----|--------|--------|--------|--------|-----|
| | max | min | max | max | nom |
| T8 | | | | | |
| 18W | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 30W | 894.6 | 899.3 | 901.7 | 908.8 | 26 |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |

| | A | B | B | C | D |
|-----|------|--------|--------|--------|-----|
| | max | min | max | max | nom |
| T5 | | | | | |
| 21W | 849 | 853.7 | 856.1 | 863.2 | 16 |
| 28W | 1149 | 1153.7 | 1156.1 | 1163.2 | 16 |
| 35W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |



Dimensions (mm)

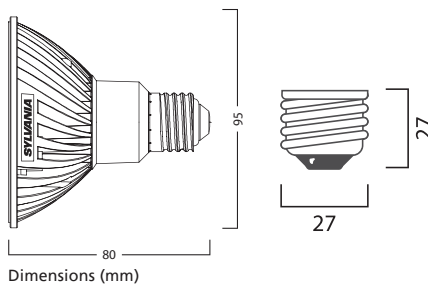
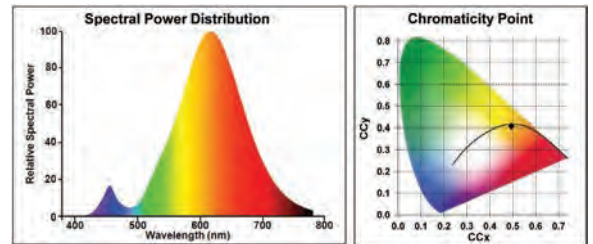


- Full retrofit LED for standard halogen lamps
- High energy saving: Compared to white sodium and filtered metal halide lamps
- Very long life: 25000hrs with more than 100000 switches
- Features a specially tailored spectrum that complements the natural colours of bread and patisserie. Illuminates them in their optimum colours for irresistible presentation
- The truthful colour rendering does not disturb the natural colours of the products
- Integrated electrical isolating transformer for highest safety, even in humid conditions



foodstar Bread - RefLED

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | CRI | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|--|----------|----------|----------------|-----|-----|-----------------|--------------------|--------------------------|-------------|
| 0001777 | Hi-Spot 95 RefLED 9W 25° Foodstar Bread | 10 | 220-240 | 25 | E27 | 75 | 2300 | 390 | 25000 | 10 |

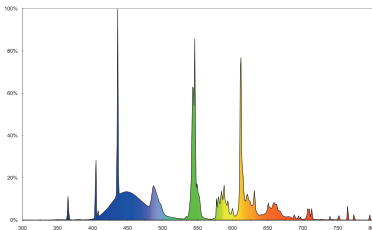
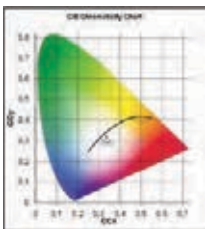




T8



T5



- Fruit and vegetables should reflect freshness. They need a higher colour temperature and cooler light and the display of fish needs it even more
- Truthful colour rendering does not disturb the natural colours of the products
- Reduced warm up of the goods illuminated
- Available in Toughcoat-version (shatter proof). The protective FEP coating meets the IEC600682-75 pendulum hammer test (5 Joule) and 4m drop test demonstrating excellent glass retention in the event of accidental lamp breakage



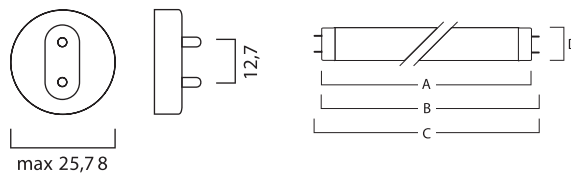
foodstar Fresh - Fluorescent

| Code | Description | Watt (W) | Volt (V) | Current (mA) | Length (mm) | CRI | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|---------------------------|----------|----------|--------------|-------------|-----|-----|-----------------|--------------------|-------------|
| 0001865 | FHE 21W T5 FoodStar Fresh | 21 | 126 | 0.165 | 849 | 2A | G5 | 6400 | 1250 | 25 |
| 0001866 | FHE 28W T5 FoodStar Fresh | 28 | 166 | 0.170 | 1149 | 2A | G5 | 6400 | 1700 | 25 |
| 0001867 | FHE 35W T5 FoodStar Fresh | 35 | 205 | 0.175 | 1449 | 2A | G5 | 6400 | 2150 | 25 |
| 0001868 | F36W T8 FoodStar Fresh | 36 | 103 | 0.430 | 1200 | 2A | G13 | 6400 | 2350 | 25 |
| 0001869 | F58W T8 FoodStar Fresh | 58 | 110 | 0.670 | 1500 | 2A | G13 | 6400 | 3500 | 25 |

foodstar Fresh - Fluorescent Toughcoat™

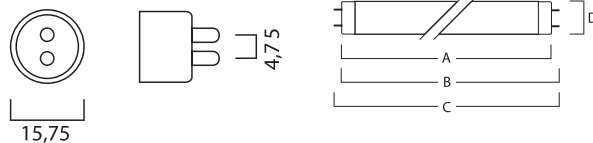
| Code | Description | Watt (W) | Volt (V) | Current (mA) | Length (mm) | CRI | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|------------------------------|----------|----------|--------------|-------------|-----|-----|-----------------|--------------------|-------------|
| 0001804 | FHE 21W T5 FoodStar Fresh TC | 21 | 126 | 0.165 | 849 | 2A | G5 | 6400 | 1250 | 25 |
| 0001805 | FHE 28W T5 FoodStar Fresh TC | 28 | 166 | 0.170 | 1149 | 2A | G5 | 6400 | 1700 | 25 |
| 0001806 | FHE 35W T5 FoodStar Fresh T | 35 | 205 | 0.175 | 1449 | 2A | G5 | 6400 | 2150 | 25 |
| 0001807 | F36W T8 FoodStar Fresh TC | 36 | 103 | 0.430 | 1200 | 2A | G13 | 6400 | 2350 | 25 |
| 0001808 | F58W T8 FoodStar Fresh TC | 58 | 110 | 0.670 | 1500 | 2A | G13 | 6400 | 2350 | 25 |

G13



| | A | B | B | C | D |
|-----|--------|--------|--------|--------|-----|
| T8 | max | min | max | max | nom |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 26 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 26 |

G5



| | A | B | B | C | D |
|-----|------|--------|--------|--------|-----|
| T5 | max | min | max | max | nom |
| 21W | 849 | 853.7 | 856.1 | 863.2 | 16 |
| 28W | 1149 | 1153.7 | 1156.1 | 1163.2 | 16 |
| 35W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |

Dimensions (mm)

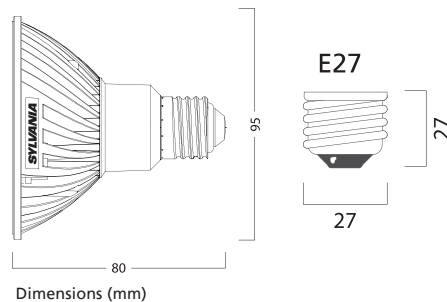
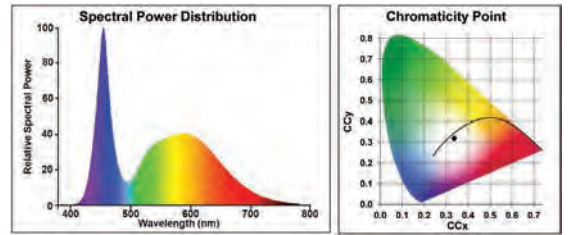


- Full retrofit LED for standard halogen lamps
- High energy saving
- Very long life: 25000hrs with more than 100000 switches
- Features a specially tailored spectrum that complements the natural colours of fruit, vegetables and fish. Illuminates them in their optimum colours for irresistible presentation
- The truthful colour rendering does not disturb the natural colours of the products
- Integrated electrical isolating transformer for highest safety, even in humid conditions



Foodstar Fresh - RefLED

| Code | Description | Watt (W) | Volt (V) | Beam Angle (°) | Cap | CRI | Colour Temp (K) | Luminous Flux (lm) | Average Rated Life (Hrs) | Packing Qty |
|---------|--|----------|----------|----------------|-----|-----|-----------------|--------------------|--------------------------|-------------|
| 0001780 | Hi-Spot 95 RefLED 9W 25° Foodstar Fresh | 10 | 220-240 | 25 | E27 | 80 | 5400 | 525 | 25000 | 10 |





Features

- Full-spectrum high colour rendering T8 fluorescent lamp
- Colour rendering: Ra98/Class 1A
- Colour temperature of 6500K (daylight characteristic)



Applications

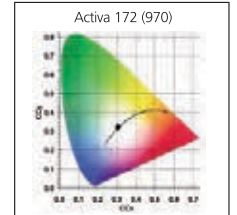
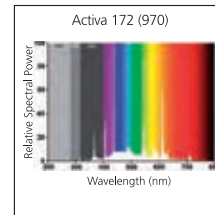
- For all applications where natural colour rendering is required
- Supports the treatment of Seasonal Affective Disorder (Winter Depression) SAD

Activa-Seasonal Affective Disorder (SAD) T5

| Code | Description | Watt (W) | Volt (V) | Current (mA) | CRI Group | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|-------------------|----------|----------|--------------|-----------|-----|-----------------|--------------------|-------------|
| 0002240 | FHE 14W/T5/Activa | 14 | 86 | 165 | 1 | G5 | 6500 | 1090 | 25 |
| 0002241 | FHE 28W/T5/Activa | 28 | 166 | 170 | 1 | G5 | 6500 | 2400 | 25 |
| 0002242 | FHE 35W/T5/Activa | 35 | 205 | 175 | 1 | G5 | 6500 | 3000 | 25 |
| 0002243 | FHO 54W/T5/Activa | 54 | 120 | 455 | 1 | G5 | 6500 | 4300 | 25 |

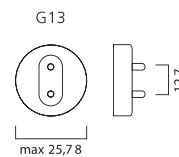
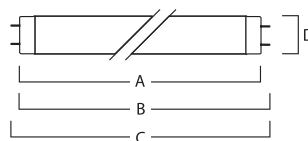
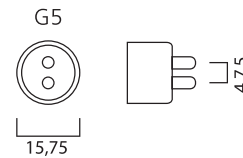
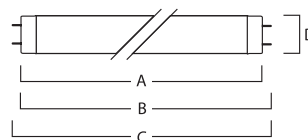
Activa-Seasonal Affective Disorder (SAD) T8

| Code | Description | Watt (W) | Volt (V) | Current (mA) | CRI Group | Cap | Colour Temp (K) | Luminous Flux (lm) | Packing Qty |
|---------|----------------|----------|----------|--------------|-----------|-----|-----------------|--------------------|-------------|
| 0002218 | F18W/T8/ACTIVA | 18 | 57 | 370 | 1A | G13 | 6500 | 1000 | 25 |
| 0002219 | F36W/T8/ACTIVA | 36 | 103 | 430 | 1A | G13 | 6500 | 2300 | 25 |
| 0002220 | F58W/T8/ACTIVA | 58 | 110 | 670 | 1A | G13 | 6500 | 3700 | 25 |
| 0002188 | F70W/T8/ACTIVA | 70 | 128 | 700 | 1A | G13 | 6500 | 4600 | 25 |



| T5 | A max | B min | B max | C max | D nom |
|-----|-------|--------|--------|--------|-------|
| 21W | 849 | 853.7 | 856.1 | 863.2 | 16 |
| 28W | 1149 | 1153.7 | 1156.1 | 1163.2 | 16 |
| 35W | 1449 | 1453.7 | 1456.1 | 1463.2 | 16 |

| T8 | A max | B min | B max | C max | D nom |
|-----|-------|-------|-------|-------|-------|
| 18W | 590 | 595 | 597 | 604 | 26 |
| 36W | 1199 | 1204 | 1207 | 1214 | 26 |
| 58W | 1500 | 1505 | 1507 | 1514 | 26 |
| 70W | 1764 | 1769 | 1771 | 1778 | 26 |



Dimensions (mm)



Features

- Tubular envelope made from transparent clear quartz
- Transmits the full spectrum of visible and infrared radiation
- Clear lamps are the most efficient for transmitting infrared energy
- Instant on-off capability

Applications

- The glare from the visible light component restricts these to industrial applications, eg Drying of paints in tunnels and automotive body shops
- Heating of plastics for PET bottle blowing
- High speed drying in paper production mills
- Drying of lacquers and printing inks
- Baking and curing of powder coatings
- Thermal sterilisation

Clear Quartz Halogen lamps

| Code | Description | Watt (W) | Volt (V) | Cap | Burning Position | Finish | Colour Temp (K) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------|----------|----------|---------------|------------------|-----------|-----------------|--------------------------|-------------|
| 0033020 | IR 300W CL SK15 230V | 300 | 230 | SK15 | Horizontal | Clear | 2550 | 2000 | 50 |
| 0033021 | IR 300W CL R7s 230V | 300 | 230 | R7s | Horizontal | Clear | 2550 | 5000 | 100 |
| 0033022 | IR 500W CL R SK15 240V | 500 | 240 | SK15 | Horizontal | Reflector | 2450 | 5000 | 10 |
| 0033023 | IR 1000W CL R X 240V | 1000 | 240 | Metal strap X | Universal | Reflector | 2450 | 5000 | 10 |
| 0033024 | IR 1000W CL SK15 235V | 1000 | 235 | SK15 | Universal | Clear | 2400 | 5000 | 10 |
| 0033025 | IR 1000W CL R SK15 235V | 1000 | 235 | SK15 | Universal | Reflector | 2400 | 5000 | 10 |
| 0033026 | IR 1200W CL R SK15 235V | 1200 | 235 | SK15 | Universal | Reflector | 2600 | 5000 | 10 |
| 0033027 | IR 2000W CL R SK15 235V | 2000 | 235 | SK15 | Horizontal | Reflector | 2700 | 5000 | 10 |

Dimensions (mm)

| | 300W SK15 Fig.6 | 300W R7s Fig.2 | 500W SK15 Fig.3 | 1000W RX Fig.4 | 1000W SK15 Fig.1 | 1000W R SK15 Fig.3 | 1200W SK15 Fig.5 | 2000W SK15 Fig.3 |
|------------------|-----------------|----------------|-----------------|----------------|------------------|--------------------|------------------|------------------|
| A (Lamp Length) | 120 | 117.6 | 216 | 370 | 353 | 353 | 222 | 353 |
| B (Heat Length) | 60 | 60 | 176 | 270 | 280 | 280 | 157 | 270 |
| C (Diameter) | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| D (Cable X1) | 140 | N/A | 230 | N/A | 230 | 230 | 140 | 230 |
| E (Cable X2) | 140 | N/A | 230 | N/A | 230 | 230 | 140 | 230 |
| Cable Connection | Splice | N/A | Fork | N/A | Fork | Fork | Fork | Fork |

Fig 1



Fig 2

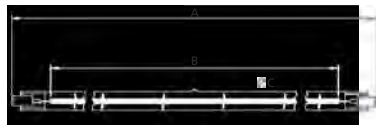


Fig 3

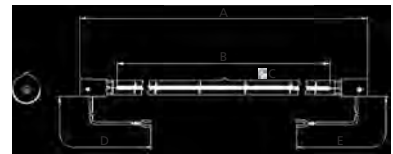


Fig 4

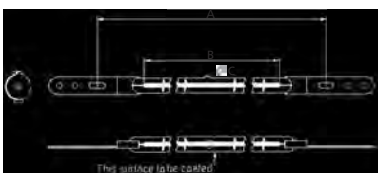


Fig 5



Fig 6



Dimensions (mm)



Features

- Tubular envelope made from ruby red quartz (Rub Slim)
- Secondary outer envelope made from red quartz (Ruby Jacket)
- Transmits virtually all infrared while blocking most visible light
- Instant on-off capability

Applications

- Space heating of large rooms
- Outdoor heating of communal areas
- Energy efficient alternative to patio heaters

Ruby Red Halogen lamps

| Code | Description | Watt (W) | Volt (V) | Cap | Burning Position | Finish | Colour Temp (K) | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------|----------|----------|------|------------------|---------------|-----------------|--------------------------|-------------|
| 0033016 | IR 1000W Ruby SK15 235V | 1000 | 235 | SK15 | Universal | Ruby Slim | 2450 | 5000 | 10 |
| 0033017 | IR 1200W Ruby SK15 235V | 1200 | 235 | SK15 | Universal | Ruby Slim | 2450 | 5000 | 10 |
| 0033018 | IR 1500W Ruby SK15 235V | 1500 | 235 | SK15 | Horizontal | Ruby Jacketed | 2350 | 5000 | 10 |
| 0033019 | IR 2000W Ruby SK15 235V | 2000 | 235 | SK15 | Horizontal | Ruby Jacketed | 2350 | 5000 | 10 |

Dimensions (mm)

| | 1000W Fig.1 | 1200W Fig.1 | 1500W Fig.2 | 2000W Fig.3 |
|------------------|----------------|----------------|----------------|----------------|
| A (Lamp Length) | 353 | 353 | 346 | 346 |
| B (Heat Length) | 280 | 60 | 176 | 270 |
| C (Diameter) | 10.5 | 10.5 | 20.0 | 20.0 |
| D (Cable X1) | 230 | 230 | 230 | 340 |
| E (Cable X2) | 230 | 230 | 230 | 340 |
| Cable Connection | Fork | Fork | Fork | Tab |



Fig 1

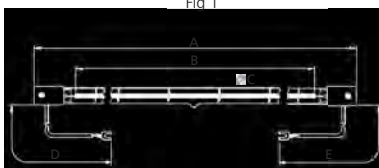


Fig 2

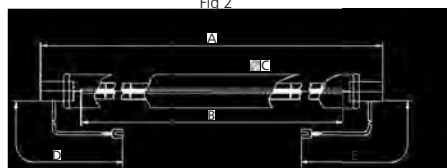
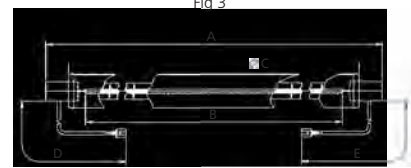


Fig 3



Dimensions (mm)



Features

- Tubular envelope made from translucent (satin) or clear quartz
- Emits both visible light and infra red radiation
- Rapid on-off capability
- No pre heating of the cabin needed

Applications

- Personal care in infra-red cabins
- Optimised spectrum to penetrate deeper into the skin for more efficient heat dissipation
- Creates a softer and more pleasant heating sensation than regular lamps

Infra Red Cabin Halogen lamps

| Code | Description | Watt (W) | Volt (V) | Cap | Burning Position | Finish | Colour Temp (K) | Average Rated Life (Hrs) | Packing Qty |
|---------|----------------------------|----------|----------|------|------------------|-------------|-----------------|--------------------------|-------------|
| 0033028 | IR 350W CL R7s 235V | 350 | 235 | R7s | Horizontal | Clear | 1750 | 5000 | 80 |
| 0033040 | IR 350W TL SK15 235V 550mm | 350 | 235 | SK15 | Horizontal | Translucent | 1750 | 5000 | 20 |
| 0033029 | IR 500W TL SK15 235V 700mm | 500 | 235 | SK15 | Horizontal | Translucent | 1750 | 5000 | 20 |
| 0033030 | IR 500W TL SK15 235V 550mm | 500 | 235 | SK15 | Horizontal | Translucent | 1750 | 5000 | 20 |
| 0033031 | IR 750W CL SK15 235V | 750 | 235 | SK15 | Horizontal | Clear | 2000 | 5000 | 20 |
| 0033032 | IR 750W TL SK15 235V | 750 | 235 | SK15 | Horizontal | Translucent | 1750 | 5000 | 20 |
| 0033033 | IR 750W CL SK15 235V | 750 | 235 | SK15 | Horizontal | Clear | 1750 | 5000 | 20 |
| 0033034 | IR 1300W CL SK15 235V | 1300 | 235 | SK15 | Horizontal | Clear | 2000 | 5000 | 20 |

Dimensions (mm)

| | 350W R7s Fig.6 | 350W SK15 Fig.2 | 500W SK15 700mm Fig.3 | 500W SK15 550mm Fig.4 | 750W Fig.1 | 1300W Fig.3 |
|------------------|-------------------|--------------------|--------------------------|--------------------------|---------------|----------------|
| A (Lamp Length) | 185.7 | 628.5 | 787.5 | 628.5 | 787.5 | 787.5 |
| B (Heat Length) | 115 | 550 | 700 | 550 | 700 | 700 |
| C (Diameter) | 10.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 |
| D (Cable X1) | N/A | 1200 | 1200 | 1200 | 1200 | 1200 |
| E (Cable X2) | N/A | 230 | 230 | 230 | 230 | 230 |
| Cable Connection | N/A | Splice | Splice | Splice | Splice | Fork |

Fig 1

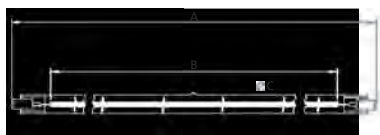


Fig 2

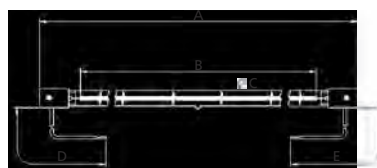


Fig 3



Dimensions (mm)



Features

- Tubular quartz envelope with gold dichroic coating
- Blocks more light than Ruby quartz types, for lower glare
- Advanced vacuum-sputtered coating won't crack or peel
- Coating extends right over the tip-off area – no light leaks

Applications

- Gradually replacing ruby quartz types where reduced glare is desirable
- Creates comfort zones in the outdoor cold, ideal for patios, restaurants and cafés
- Efficient spaceheating in large buildings e.g. churches, halls, warehouses, garages, stadiums, exhibition halls etc
- Glare free de-icing of pedestrian walkways

Gold Filter Halogen lamps

| Code | Description | Watt (W) | Volt (V) | Cap | Burning Position | Finish | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------------|----------|----------|---------------|------------------|-------------|--------------------------|-------------|
| 0033035 | IR 1000W Gold X 240V | 1000 | 240 | Metal strap X | Universal | Gold plated | 5000 | 10 |
| 0033036 | IR 1300W Gold R7S 240V | 1300 | 240 | R7s | Universal | Gold plated | 1000 | 100 |
| 0033037 | IR 1500W Gold SK15 240V | 1500 | 240 | SK15 | Horizontal | Gold plated | 5000 | 10 |
| 0033038 | IR 1500W Gold SK15 120V | 1500 | 120 | SK15 | Horizontal | Gold plated | 5000 | 10 |
| 0033039 | IR 2000W Gold SK15 240V | 2000 | 240 | SK15 | Horizontal | Gold plated | 5000 | 10 |

| Dimensions (mm) | 1000W Fig.1 | 1300W Fig.2 | 1500W Fig.3 | 1500W 120V Fig.4 | 2000W Fig.5 |
|------------------|----------------|----------------|----------------|---------------------|----------------|
| A (Lamp Length) | 370 | 254 | 353 | 353 | 353 |
| B (Heat Length) | 280 | 180 | 280 | 280 | 280 |
| C (Diameter) | 12.5 | 12.5 | 12.0 | 12.0 | 12.0 |
| D (Cable X1) | N/A | N/A | 600 | 300 | 600 |
| E (Cable X2) | N/A | N/A | 600 | 300 | 600 |
| Cable Connection | N/A | N/A | Tab | Fork | Tab |



Fig 1

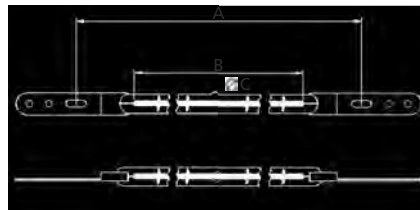


Fig 2

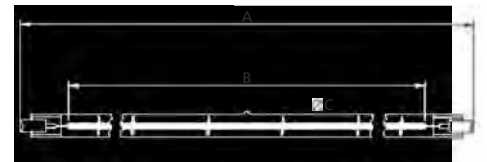


Fig 3

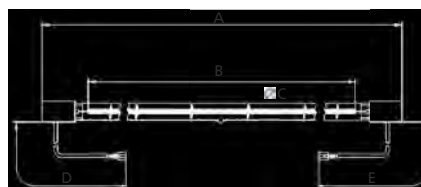


Fig 4



Dimensions (mm)



Features

- Integral reflector facilitates simple and economical installations
- Pre-focussed optics deliver intensely controlled radiation
- PAR38 lamps have a pressed hard glass bulb with precision-optical lens
- R125 and R95 lamps have a blown hard glass bulb for low cost applications
- E27 cap allows use in almost any suitable lampholder
- Instant heat after switch-on
- All R125-lamps have a mechanical fitted base in order to avoid loose base problems

Applications

- Animal husbandry and other agricultural uses
- Food heating in the catering trade
- Wellness and medical applications for muscle relaxation
- Creates a pleasant warmth in bathroom drying areas
- Various industrial uses for drying, heating, vulcanising, distilling, softening, melting, pasteurising, polymerising, evaporating, gelatinising etc

Infra Red Reflector Incandescent lamps

| Code | Description | Watt (W) | Volt (V) | Cap | Finish | Average Rated Life (Hrs) | Packing Qty |
|---------|---------------|----------|----------|-----|--------|--------------------------|-------------|
| 0033004 | IR R95 100W | 100 | 230 | E27 | Ruby | 5000 | 20 |
| 0033009 | IR R125 150W | 150 | 240 | E27 | Ruby | 5000 | 12 |
| 0033010 | IR R125 175W | 175 | 240 | E27 | Ruby | 5000 | 12 |
| 0033011 | IR R125 250W | 250 | 240 | E27 | Ruby | 5000 | 12 |
| 0033012 | IR R125 300W | 300 | 240 | E27 | Ruby | 5000 | 12 |
| 0033013 | IR R125 375W | 375 | 240 | E27 | Ruby | 5000 | 12 |
| 0033014 | IR PAR38 150W | 150 | 240 | E27 | Ruby | 5000 | 12 |
| 0033015 | IR PAR38 175W | 175 | 240 | E27 | Ruby | 5000 | 12 |



R95 Lamp Dimensions (mm)
Fig.1

| | |
|---|-----|
| L | 130 |
| D | 95 |

R125 Lamp Dimensions (mm)
Fig.1

| | |
|---|-----|
| L | 185 |
| D | 126 |

PAR38 Lamp Dimensions (mm)
Fig.2

| | |
|---|-----|
| L | 135 |
| D | 122 |

Fig 1

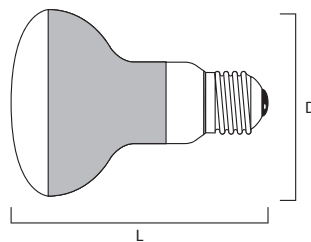
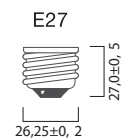
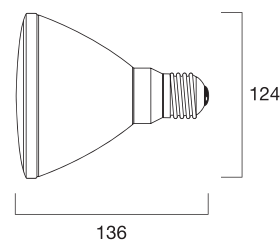
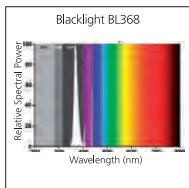
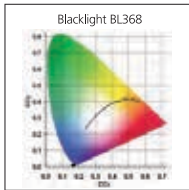


Fig 2



Dimensions (mm)



Features

- BL368 tubes emit an upgraded highly concentrated radiation with peak around 368 nm. Flying insects eye sensitivity is generally at or near this frequency
- 100% improvement in effectiveness (at 368nm)
- Depreciation of UV-A output over time is significantly reduced (80% at 5000hrs of original 100 hour output)
- Performs longer and better throughout the insect season
- Same shape, structural and electrical characteristics and control circuits as standard T12,T8 or T5 tubes



Applications

- Insect traps, insect attraction is strongly increased
- Restaurants, kitchens, food shops, supermarkets
- Diazo printing machines
- Photo Polymerisation
- Chemical processing
- Mineral detection
- Various technical applications

Directions for use

- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1.0 milliWatt per metre squared (1.0 mW/m²) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0.2 and 0.4 mW/m² depending on the wattage

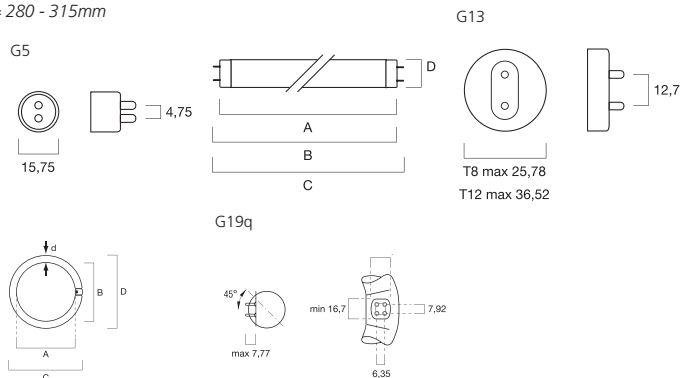
Blacklight BL368 Linear & Circline

| Code | Description | Watt (W) | Volt (V) | Current (A) | Light Colour | Cap | Packing Qty |
|---------|-------------------|----------|----------|-------------|--------------|------|-------------|
| 0000085 | F4W T5 BL368 | 4 | 29 | 0.170 | BL368 | G5 | 50 |
| 0000088 | F6W T5 BL368 | 6 | 42 | 0.160 | BL368 | G5 | 25 |
| 0000089 | F8W T5 BL368 | 8 | 56 | 0.145 | BL368 | G5 | 25 |
| 0000097 | F11W T5 BL368 | 11 | 34 | 0.350 | BL368 | G5 | 25 |
| 0000090 | F15W T5 BL368 | 15 | 44 | 0.310 | BL368 | G5 | 25 |
| 0000082 | F15 T8 BL368 | 15 | 55 | 0.310 | BL368 | G13 | 25 |
| 0000091 | F18W T8 BL368 24" | 18 | 59 | 0.36 | BL368 | G13 | 25 |
| 0002166 | F25 T8 BL368 18" | 25 | 38 | 0.600 | BL368 | G13 | 25 |
| 0000098 | F30 T8 BL368 | 30 | 96 | 0.365 | BL368 | G13 | 25 |
| 0000092 | F36W T8 BL368 24" | 36 | 50 | 0.85 | BL368 | G13 | 25 |
| 0000361 | F20 T12 BL368 24" | 20 | 57 | 0.370 | BL368 | G13 | 25 |
| 0001638 | F40 T12 BL368 24" | 40 | 47 | 0.880 | BL368 | G13 | 25 |
| 0000099 | F40 T12 BL368 48" | 40 | 103 | 0.430 | BL368 | G13 | 25 |
| 0000456 | FC22 T9 BL368 | 22 | 62 | 0.400 | BL368 | G10q | 12 |
| 0000100 | FC32 T9 BL 368 8" | 32 | 57 | 0.480 | BL368 | G10q | 12 |

UV-A= 315 - 400mm
UV-B= 280 - 315mm

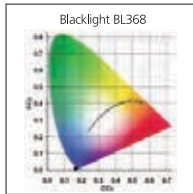
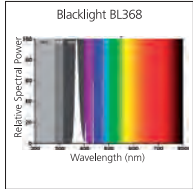


| | A max | B min | B max | C max | D nom |
|------------|--------|--------|--------|--------|-------|
| 4W | 135.9 | 140.6 | 143.0 | 150.1 | 16 |
| 6W | 212.1 | 216.8 | 219.2 | 226.3 | 16 |
| 8W | 288.3 | 293.0 | 295.4 | 302.5 | 16 |
| 11W | 212.1 | 216.8 | 219.2 | 226.3 | 16 |
| 15WT5 | 288.3 | 293.0 | 295.4 | 302.5 | 16 |
| 15WT8 | 437.4 | 442.1 | 444.5 | 451.6 | 26 |
| 18WT8 | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 25WT8 18" | 437.4 | 442.1 | 444.5 | 451.6 | 26 |
| 30WT8 | 894.6 | 899.3 | 901.7 | 908.8 | 26 |
| 36WT8 | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 20WT12 24" | 589.8 | 594.5 | 596.9 | 604.0 | 38 |
| 40WT12 24" | 589.8 | 594.5 | 596.9 | 604.0 | 38 |
| 40WT12 48" | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 38 |



Dimensions (mm)

| | A min | A max | B min | B max | D min | D max | d min | d max |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 22W | 149.1 | 155.6 | 147.6 | 157.2 | 203.2 | 215.9 | 26.2 | 30.9 |
| 32W | 149.1 | 155.6 | 147.6 | 157.2 | 203.2 | 215.9 | 26.2 | 30.9 |



Features

- These BL368 tubes emit an upgraded highly concentrated radiation with peak around 368nm. Flying insect - eye sensitivity is generally at or near this frequency
- 100% improvement in effectiveness (at 368nm)
- Depreciation of UV-A output over time is significantly reduced (80% at 5000hrs of original 100 hour output)
- Performs longer and better throughout the insect season



Directions for use

- Maximum exposure limits are set by EN60335 2-59:1997 at an effective 1.0 milliWatt per metre squared (1.0 mW/m) measured at a distance of 1 metre - originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0.2 and 0.4 mW/m depending on the wattage

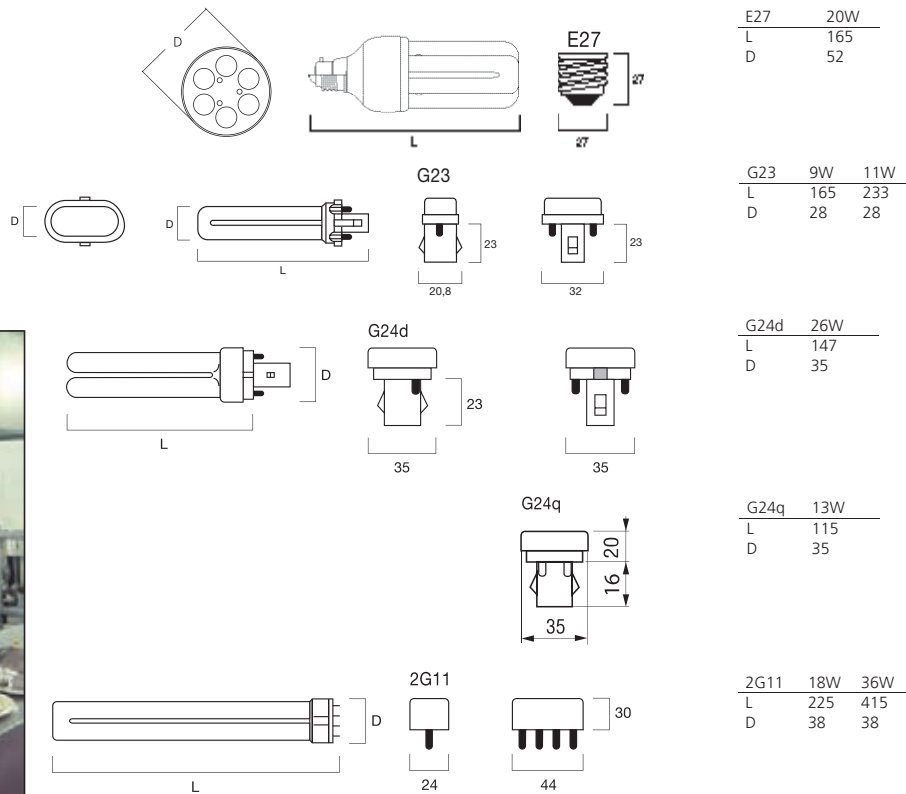
Blacklight BL355 Compact

| Code | Description | Watt (W) | Volt (V) | Current (A) | Lamp Colour | Cap | Packing Qty |
|---------|-----------------|----------|----------|-------------|-------------|-----|-------------|
| 0025275 | LYNX-S BL355 9W | 9 | 60 | 0.170 | BL355 | G23 | 50 |

Blacklight BL368 Compact

| Code | Description | Watt (W) | Volt (V) | Current (A) | Lamp Colour | Cap | Packing Qty |
|---------|--------------------|----------|----------|-------------|-------------|--------|-------------|
| 0025706 | MiniLynx 20W BL368 | 20 | 230 | 0.160 | BL368 | E27 | 20 |
| 0025411 | Lynx-s 9W BL368 | 9 | 60 | 0.170 | BL368 | G23 | 50 |
| 0025412 | Lynx-S 11W BL 368 | 11 | 91 | 0.175 | BL368 | G23 | 50 |
| 0025708 | Lynx-DE 13W BL368 | 13 | 91 | 0.175 | BL368 | G24q-1 | 50 |
| 0025709 | Lynx-D 26W BL368 | 26 | 105 | 0.325 | BL368 | G24d-3 | 50 |
| 0025268 | Lynx-L 18W BL368 | 18 | 58 | 0.375 | BL368 | 2G11 | 10 |
| 0025710 | Lynx-L 36W BL368 | 36 | 106 | 0.435 | BL368 | 2G11 | 10 |

UV-A= 315-400nm UV-B=280-315nm



Dimensions (mm)



Features

- Excellent fragment retention in the event of breakage
- The protective FEP coating meets the IEC60068-2-75 Pendulum Hammer test (5 Joule) and the 4m drop test, demonstrating excellent glass retention in the event of accidental lamp breakage
- The 97% UV-A transmission of FEP maintains maximum insect attraction
- No discolouration or yellowing of shatter resistant coating during the entire lamp life (> 10,000 hrs)
- The FEP material does not degrade during life. Versions employing PET coatings become brittle, and may not contain fragments. PET is also less transparent for UV-radiation
- The coating withstands up to 200°C in both open and enclosed IP65 fittings.
- The melting temperature is 260°C
- Meets all necessary regulations for resistance to heat and fire, and does not support combustion when exposed to naked flame or excessive heat. It passes the 850°C Glow Wire Test
- Satisfies the requirements of the International Food Standard (IFS 2004)
- FDA approved, in compliance with 21CFR177.1550 Regulatory Compliance Status
- Satisfies the requirements of the BRC (British Retail Consortium) leading supermarkets global standard. In paragraph 3.2.2.6.2 it states "All bulbs and strip lights, including those on electric fly killer units, where they constitute a risk to products, shall be protected by shatterproof plastic diffusers, sleeve covers or with a shatterproof protective coating"



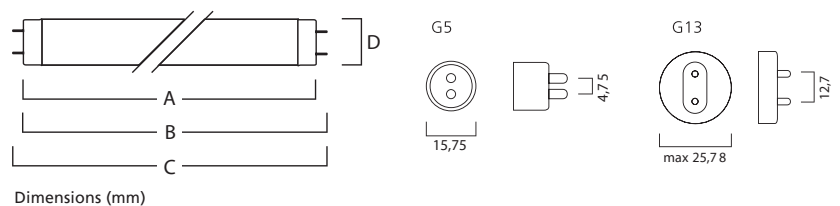
Applications

- Insect attraction in restaurants, kitchens, food shops, supermarkets
- Food processing plants
- Pharmaceutical industry
- The risk of glass and mercury contamination is strongly decreased
- Help to avoid injury and loss of production time

Blacklight BL368 FEP Toughcoat™

| Code | Description | Watt (W) | Volt (V) | Current (A) | Lamp Colour | Cap | Packing Qty |
|---------|------------------------------------|----------|----------|-------------|-------------|-----|-------------|
| 0001648 | F8W T5 BL368 Toughcoat™ | 8 | 56 | 0.145 | BL368 | G5 | 25 |
| 0001649 | F11W T5 BL368 Toughcoat™ | 11 | 34 | 0.350 | BL368 | G5 | 25 |
| 0001650 | F15W T5 BL368 Toughcoat™ | 15 | 44 | 0.310 | BL368 | G5 | 25 |
| 0000124 | F15W T8 BL 368 Toughcoat™ | 15 | 55 | 0.310 | BL368 | G13 | 25 |
| 0001664 | F18W T8 BL368 Toughcoat™ 24" | 18 | 59 | 0.36 | BL368 | G13 | 25 |
| 0001651 | F25W T8 BL 368 Toughcoat™ 18" | 25 | 38 | 0.600 | BL368 | G13 | 25 |
| 0001652 | F30W T8 BL 368 Toughcoat™ 24" | 30 | 96 | 0.365 | BL368 | G13 | 25 |
| 0001665 | F36W T8 BL368 Toughcoat™ 24" | 36 | 50 | 0.85 | BL368 | G13 | 25 |
| 0000125 | F20W T12 BL 368 Toughcoat™ 24" | 20 | 57 | 0.370 | BL368 | G13 | 25 |
| 0000126 | F40W T12 BL 368 Toughcoat™ 24" | 40 | 47 | 0.880 | BL368 | G13 | 25 |
| 0001630 | F40W T12 BL 368 48" Toughcoat™ 48" | 40 | 103 | 0.430 | BL368 | G13 | 25 |

| | A max | B min | B max | C max | D nom |
|-------------|--------|--------|--------|--------|-------|
| 8WT5 | 288.3 | 293.0 | 295.4 | 302.5 | 16 |
| 15WT8 | 437.4 | 442.1 | 444.5 | 451.6 | 26 |
| 15WT5 | 288.3 | 293.0 | 295.4 | 302.5 | 16 |
| 15WT8 | 437.4 | 442.1 | 444.5 | 451.6 | 26 |
| 18W 24" | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 20W/2ft-24" | 589.8 | 594.5 | 596.9 | 604.0 | 38 |
| 25WT8 18" | 437.4 | 442.1 | 444.5 | 451.6 | 26 |
| 30WT8 | 894.6 | 899.3 | 901.7 | 908.8 | 26 |
| 36W 24" | 589.8 | 594.5 | 596.9 | 604.0 | 26 |
| 40W/2ft-24" | 589.8 | 594.5 | 596.9 | 604.0 | 38 |
| 40W/4ft-48" | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 38 |





Features

- These lamps consist of a tubular glass envelope and emit more than 85% of their energy in the UV-C ultra violet radiation with a peak at 253.7nm for germicidal action
- Shape, electrical characteristics and lighting circuits are similar to general fluorescent lamps
- The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°
- All lamps are Ozone free
- A protective coating on the inside of the lamp limits the depreciation of the UV-C output

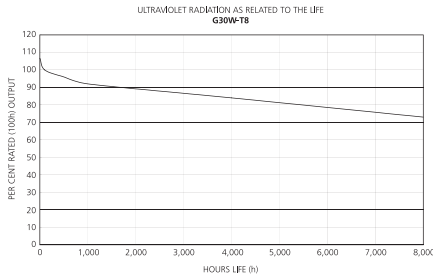
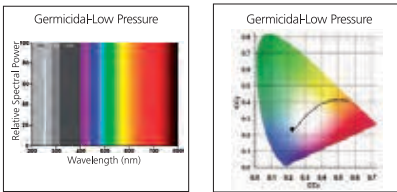


Applications

- Residential drinking water units
- Stand alone air purifiers
- Wall mounted air purification units
- Ponds & Aquaria

Directions for use

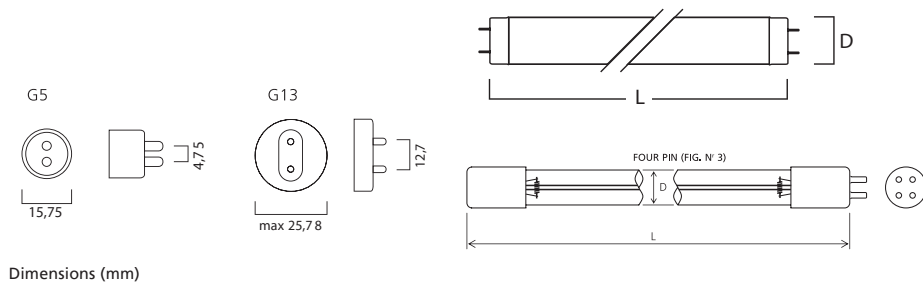
- The radiation from these lamps is very harmful to eyes and skin. Always protect your eyes and skin against radiation
- Germicidal lamps must only be used in appropriate equipment and applications
- When using UV-C emitting lamps, the official reference guides and the current industrial safety guideline must be followed
- Maximum Permissible Exposure Time (MPET) can be established for a given range of wavelengths. For example: 1 minute/day at a distance of 30cm
- Germicidal lamps emit UV-C radiation and must not be used for general lighting purposes



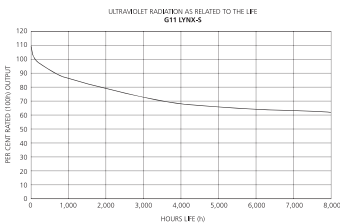
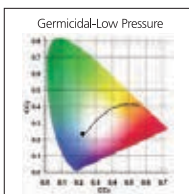
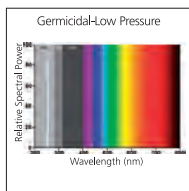
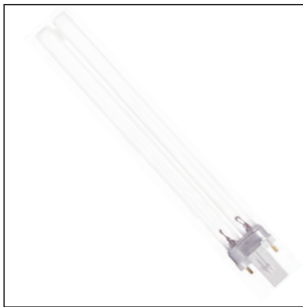
| | G4T5 4W | G6T5 6W | G8T5 8W | G11T5 11W |
|---|--------------|--------------|--------------|--------------|
| L | 136 | 212 | 288 | 212 |
| D | 16 | 16 | 16 | 16 |
| | G16T5 16W | G10T8 10W | G15T8 15W | G25T8 25W |
| L | 288 | 330 | 437 | 436 |
| D | 16 | 26 | 26 | 26 |
| | G30T8 30W | G36T8 36W | G55T8 55W | G58T8 58W |
| L | 894 | 1198 | 893 | 1500 |
| D | 26 | 26 | 26 | 26 |

Germicidal Linear

| Code | Description | Watt (W) | Volt (V) | Current (A) | UV Output at 25° | Cap | Average Rated Life (Hrs) | Packing Qty |
|---------|------------------|----------|----------|-------------|------------------|----------|--------------------------|-------------|
| 0002328 | G4W T5 | 4 | 30 | 0.162 | 0.8 | G5 | 6000 | 50 |
| 0002216 | G6W T5 | 6 | 42 | 0.160 | 1.7 | G5 | 6000 | 50 |
| 0000501 | G8W T5 | 8 | 56 | 0.145 | 2.5 | G5 | 6000 | 24 |
| 0000507 | G11W T5 HO | 11 | 37 | 0.330 | 2.2 | G5 | 8000 | 50 |
| 0025016 | G11W T5 HO 4-pin | 11 | 37 | 0.330 | 2.2 | Four pin | 8000 | 45 |
| 0025017 | G16W T5 HO 4-pin | 16 | 50 | 0.400 | 3.9 | Four Pin | 8000 | 45 |
| 0000508 | G16W T5 HO | 16 | 50 | 0.350 | 3.2 | G5 | 8000 | 24 |
| 0002482 | G10W T8 | 10 | 46 | 0.230 | 2.6 | G13 | 6000 | 10 |
| 0000502 | G15W T8 | 15 | 55 | 0.310 | 4.9 | G13 | 8000 | 24 |
| 9000526 | G25W T8 | 25 | 46 | 0.600 | 6.9 | G13 | 8000 | 24 |
| 0000503 | G30W T8 | 30 | 96 | 0.365 | 13.4 | G13 | 8000 | 24 |
| 0000504 | G36W T8 | 36 | 103 | 0.430 | 15.5 | G13 | 8000 | 20 |
| 0002208 | G55W T8 | 55 | 83 | 0.770 | 18.0 | G13 | 8000 | 96 |
| 0002217 | G58W T8 | 58 | 110 | 0.670 | 20.0 | G13 | 5000 | 12 |



Dimensions (mm)



| | | | | | |
|------|-----|-----|-----|-----|-----|
| 2G11 | 18W | 36W | | | |
| L | 225 | 415 | | | |
| D | 38 | 38 | | | |
| G23 | 5W | 7W | 9W | 11W | 13W |
| L | 105 | 134 | 165 | 233 | 233 |
| D | 28 | 28 | 28 | 28 | 28 |

Features

- These lamps have all the benefits of linear germicidal lamps, but have also a very compact design. This allows for compact fixture design. As they are single ended, replacement is very easy
- The HO (High Output) lamps are most efficient in air purification installations, as they are wind chill corrected
- Shape, electrical characteristics and lighting circuits are similar to general lighting compact fluorescent lamps
- The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°
- All lamps are Ozone free
- A protective coating on the inside of the lamp limits the depreciation of the UV-C output



Applications

- Residential drinking water
- Pond water
- Induct air treatment units
- Stand alone air purifiers

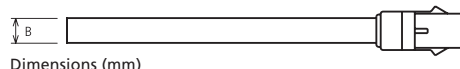
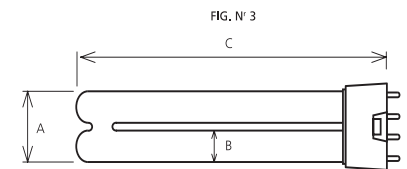
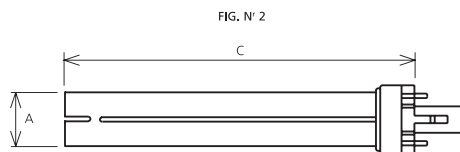
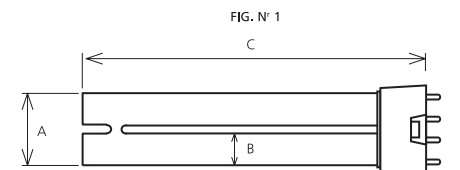
Directions for Use

- The radiation from these lamps is very harmful to eyes and skin. Always protect your eyes and skin against radiation
- Germicidal lamps must only be used in appropriate equipment and applications
- When using UV-C emitting lamps, the official reference guides and the current industrial safety guideline must be followed
- Maximum Permissible Exposure Time (MPET) can be established for a given range of wavelengths. For example: 1 minute/day at a distance of 30cm
- Germicidal lamps emit UV-C radiation and must not be used for general lighting purpose

Germicidal Compact

| Code | Description | Watt (W) | Volt (V) | Current (A) | UV Output at 25° | Cap | Average Rated Life (Hrs) | Packing Qty |
|---------|-------------------|----------|----------|-------------|------------------|------|--------------------------|-------------|
| 9002460 | G5 Lynx-S | 5 | 35 | 0.180 | 1.5 | G23 | 8000 | 50 |
| 0025050 | G9 Lynx-S | 9 | 59 | 0.170 | 2.4 | G23 | 8000 | 50 |
| 0025012 | G9W Lynx-SE 4-pin | 9 | 59 | 0.170 | 2.4 | 2G7 | 8000 | 50 |
| 0025051 | G11 Lynx-S | 11 | 89 | 0.160 | 3 | G23 | 8000 | 50 |
| 0025047 | G13 Lynx-S | 13 | 59 | 0.285 | 3.6 | GX23 | 8000 | 50 |
| 0025049 | G18W Lynx-L | 18 | 58 | 0.375 | 5.5 | 2G11 | 8000 | 25 |
| 0025048 | G36W Lynx-L | 36 | 106 | 0.435 | 12.0 | 2G11 | 8000 | 25 |
| 0025045 | G55W Lynx-L | 55 | 103 | 0.540 | 17.0 | 2G11 | 8000 | 25 |
| 0025013 | G35W Lynx-L HO* | 35 | 55 | 0.850 | 11 | 2G11 | 9000 | 25 |
| 0025014 | G65W Lynx-L HO* | 65 | 82 | 0.800 | 19 | 2G11 | 9000 | 25 |
| 0025015 | G90W Lynx-L HO* | 90 | 115 | 0.800 | 27 | 2G11 | 9000 | 25 |

* When used with electronic ballast 25KHz HF



Dimensions (mm)



Sunlamp – CAUTION – ultraviolet (UV) and infrared (IR) radiation. Please follow the instructions. Ultraviolet and infrared radiation from solarium tubes carry a number of health risks and may lead to disorders such as cancer, premature ageing of the skin, burns, eye damage, cataracts, deficiency of the immune system, allergic reactions and damage to the vascular system. Pregnant women and persons taking prescription or over the counter medications should consult their physician before using a tanning bed in a solarium. The simultaneous use of medications such as tranquilisers, antibiotics, diuretic, hypotensive, antineoplastic or contraceptive substances may lead to sunburn occurring more quickly because such substances raise the skin's sensitivity to light. The same applies for cosmetics. UV radiation may accelerate the ageing process of your skin and increase the risk of skin cancer, such as squamous or basal cell carcinoma. Your risk of contracting skin cancer rises with the frequency of exposure to UV radiation. People who do not tan in sunlight will generally not go brown in a solarium and are therefore more at risk from the negative effects of tanning lamps. If you do not tan in sunlight, you should avoid tanning lamps. UV exposure in childhood is suspected of favouring melanoma formation in adulthood. Consequently, children should only be allowed to use solarium under medical supervision. ALWAYS WEAR SUITABLE EYE PROTECTION WHEN TANNING (UV PROTECTIVE GOGGLES)! FAILURE TO WEAR EFFECTIVE EYE PROTECTION MAY LEAD TO SEVERE BURNS OR PERMANENT VISUAL DAMAGE!

Use tanning lamps EXCLUSIVELY with a timer switch in line with the equipment and lamp manufacturers' instructions and according to your skin type. Take all the necessary safety precautions before installing the lamp and replacing the tubes, and follow the manufacturers' instructions concerning the tanning equipment and lighting device.

DISCLAIMER: SYLVANIA shall not be liable for damage resulting from improper use of the product or failure to observe statutory and local authority regulations relating to the use of the product by customers or end users. All of the data listed here result from laboratory measurements conducted under standardised conditions. Information on the reduction of UVA radiation and the guaranteed service life of the equipment is based on the 5-hour value and refers to operating conditions defined by SYLVANIA. SYLVANIA reserves the right to alter these technical data without prior notice.

Wellness, sun tanning and body care in general are more and more part of modern life. Our Pure Bronze range of sun tanning low-pressure tubes and high-pressure lamps leave barely any wish unfulfilled. Open and closed glass, 2-meter and miniature tubes, with and without reflectors, standard or long life versions, Pure Bronze provides a matching solution for practically every requirement.

Bodycare



Features

- Short irradiation and exposure times
- Ozone free construction
- Long-life types offer outstanding UV-A maintenance out to 800 hours
- Special versions available upon request
- Complete PBF range also available

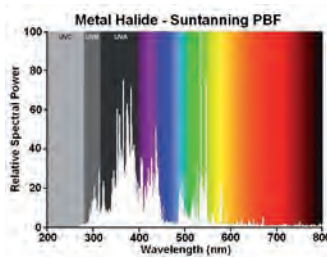
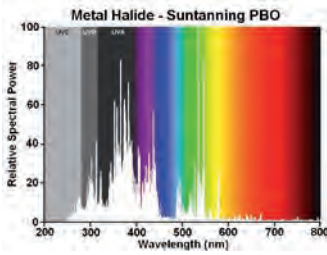


Applications

- Domestic cosmetic facial tanning
- Professional facial, half body and full body units
- Short intense tanning sessions

Directions For Use

- Only use in tanning devices equipped with appropriate filter and timer
- Burning position: horizontal $\pm 10^\circ$ for double ended types : universal for single ended types
- Do not touch the quartz envelope with bare fingers
- Pinch temperature: max 350°C
- Bulb temperature: min 750°C, max 950°C



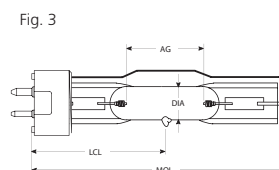
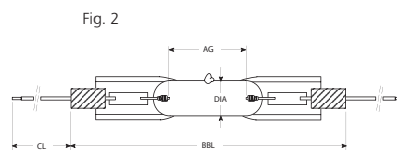
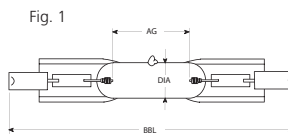
PureBronze Suntanning - High Pressure HID

| Code | Description | Watt (W) | Base/Cap | Maximum diameter D (mm) | Maximum length L (mm) | Average Rated Life (Hrs) | Fig. |
|----------------|---------------------------------|----------|----------|-------------------------|-----------------------|--------------------------|------|
| 0024250 | PureBronze PBF 250W SE | 250 | GY9.5 | 14 | 69 | 600 | 3 |
| 0024300 | PureBronze PBO BEST 300/500W S | 300-500 | R7s | 14 | 106 | 800 | 1 |
| 0024201 | PureBronze PBO 400W SL | 250-500 | R7s long | 14.0 | 117.9 | 600 | 1 |
| 0024202 | PureBronze PBO 400W C | 250-500 | Cable | 14.0 | 116.0 | 600 | 2 |
| 0024303 | PureBronze PBO BEST 300/500W SE | 300-500 | GY9.5 | 14 | 103 | 800 | 3 |
| 0024227 | PureBronze PBO 400-600W G12 | 300-600 | G12 | 14 | 106 | 600 | - |
| 0024210 | PureBronze PBO 500W S | 300-600 | R7s | 17.0 | 106.0 | 600 | 1 |
| 0024212 | PureBronze PBO 500W SE | 300-600 | GY 9.5 | 17.0 | 107.0 | 600 | 3 |
| 0024261 | PureBronze PBO 300/500W SEC | 300-500 | CODED SE | 14 | 103 | 600 | - |
| 0024228 | PureBronze PBO 400/600W SEC | 400-600 | CODED SE | 17 | 107 | 600 | - |
| 0024220 | PureBronze PBO 1000W C 230 V | 1000 | Cable | 25.5 | 139.0 | 600 | 2 |
| 0024223 | PureBronze PBO 1000W SE short | 500-1000 | GY9.5 | 25.0 | 108.5 | 600 | 3 |

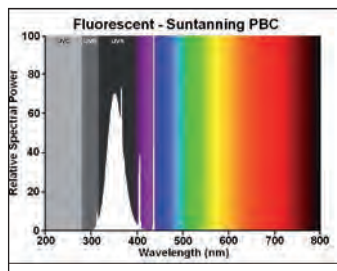
Performance



| | 250 | 400 | 500 | 700 | 1000 | 2000 |
|---------------------|-----|-----|-----|-----|------|------|
| Single Ended | | | | | | |
| MOL | 71 | 103 | | | 129 | |
| DIA | 20 | 14 | | | 25 | |
| C (Cable) | | | | | | |
| BBL | | 116 | | | 139 | 174 |
| DIA | | 14 | | | 25.5 | 27 |
| S (R7s) Base | | | | | | |
| BBL | | 106 | 118 | | | |
| DIA | | 14 | 14 | | | |



Dimensions (mm)



Responding to the recent European Directive which calls for a maximum effective irradiance of 0.3 W/m² in the sunbed, Sylvania has developed a comprehensive range of retrofit tubes which allow you to bring equipment in line with the new regulations. By optimal balance of the UV-A and UV-B ratios, tanning times are maintained as short as possible. From the three product ranges TopLine, PerformanceLine and ClassicLine, Sylvania can offer a tube to meet the performance and budgetary requirements of the entire spectrum from professional salon to domestic user.



CLASSICLINE: for the beginner

- Comprehensive product range from 15W to 180W
- Closed glass tube limits the deeper UV wavelengths
- Available with and without internal reflector
- The starter series for both home use and smaller salons
- Lower cost tube suitable for the beginner
- Guaranteed UV output for 600 hours life

PERFORMANCELINE : for immediate tanning

- Increased power tubes from 80W to 160W
- Professional quality open glass tube lets out the important UV wavelengths
- Ideal choice for professional studios
- High levels of direct pigmentation are achieved thanks to the open glass
- Guaranteed UV output for 600 hours life

TOPLINE : for the professional

- Ultimate output of 100W to 250W for reduced tanning times
- Professional quality open glass tube lets out the important UV wavelengths
- Top performance choice for professional studios
- DirectTan technology for instant visual results
- PurePower models deliver up to 30% more direct pigmentation
- Guaranteed UV output for industry-leading 1000 hours life
- Sylvania LongLife technology delivers low cost of ownership for professional salons

Directions For Use

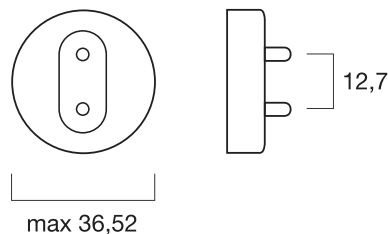
- Always consider the type of equipment and your skin type when using Sylvania tanning tubes

PureBronze Suntanning - Low Pressure 0.3 Range

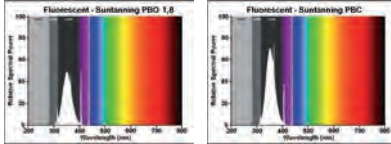


| Code | Description | Watt (W) | Length (CM) | Typical radiation strength* (mW/cm2) | UV-B (%) | UV-A (W) | Sun/erythema factor (fse) | Sunning time** HT 3 (min.) | Average Rated Life (Hrs) |
|------------------------|----------------|----------|-------------|--------------------------------------|----------|----------|---------------------------|----------------------------|--------------------------|
| Classic 15-100W | | | | | | | | | |
| 0003012 | PBC 15W 1.0 | 15 | 28.8 | 16 | 1.0 | 2.8 | 0.4 | 21 | 600 |
| 0003009 | PBC 25W 1.0 | 25 | 52 | 16 | 1.0 | 2.8 | 0.05 | 21 | 600 |
| 0001180 | PBC 100W 0.7 | 100 | 176 | 17 | 0.8 | 27 | 0.05 | 24 | 600 |
| 0001181 | PBC 100W 1.3 | 100 | 176 | 17 | 1.3 | 27 | 0.07 | 20 | 600 |
| 0001182 | PBC 100W 2.0 | 100 | 176 | 17 | 2.0 | 27 | 0.11 | 12 | 600 |
| 0001169 | PBC 100W 0.7 R | 100 | 176 | 18 | 0.7 | 26 | 0.07 | 24 | 600 |
| 0001170 | PBC 100W 1.0 R | 100 | 176 | 18 | 1.0 | 26 | 0.08 | 21 | 600 |
| 0001301 | PBC 100W 1.3 R | 100 | 176 | 18 | 1.3 | 26 | 0.1 | 18 | 600 |
| 0001313 | PBC 140W 1.3 R | 140 | 150 | 21 | 1.3 | 33 | 0.12 | 15 | 600 |
| 0001217 | PBC 160W 0.7 R | 160 | 176 | 21 | 0.7 | 33 | 0.08 | 22 | 600 |
| 0001214 | PBC 160W 1.0 R | 160 | 176 | 21 | 1.0 | 33 | 0.1 | 18 | 600 |

| Code | Description | Watt (W) | Length (CM) | Typical radiation strength* (mW/cm2) | UV-B (%) | UV-A (W) | Sun/erythema factor (fse) | Sunning time** HT 3 (min.) | Average Rated Life (Hrs) |
|----------------------------|------------------------------|----------|-------------|--------------------------------------|----------|----------|---------------------------|----------------------------|--------------------------|
| Extra-long tubes | | | | | | | | | |
| 0001297 | PBC 120W 0.7 R 1.9m | 100-120 | 190 | 19 | 0.7 | 30 | 0.08 | 22 | 600 |
| 0001298 | PBC 120W 0.7R 2m | 100-120 | 200 | 18 | 0.7 | 30 | 0.08 | 22 | 600 |
| 0001302 | PBC 180W 0.7R 1.9m | 160-180 | 190 | 22 | 0.7 | 38 | 0.08 | 18 | 600 |
| 0001299 | PBC 180W 0.7 R 2m | 180-200 | 200 | 23 | 0.7 | 41 | 0.08 | 22 | 600 |
| Performance 80-100W | | | | | | | | | |
| 0001166 | PBO 80W 1.0 R | 80 | 150 | 19 | 1.0 | 23 | 0.11 | 18 | 600 |
| 0001248 | PBO 100W 0.5 R | 100 | 176 | 19 | 0.5 | 30 | 0.06 | 27 | 600 |
| 0001201 | PBO 100W 1.0 R | 100 | 176 | 20 | 1.0 | 30 | 0.1 | 19 | 600 |
| 0001202 | PBO 100W 1.3 R | 100 | 176 | 20 | 1.3 | 30 | 0.13 | 15 | 600 |
| 0001267 | PBO 160W 0.5 R | 160 | 176 | 23 | 0.5 | 36 | 0.06 | 23 | 600 |
| 0001249 | PBO 160W 0.7 R | 160 | 176 | 23 | 0.7 | 36 | 0.08 | 18 | 600 |
| 0001218 | PBO 160W 1.0 R | 160 | 176 | 23 | 1.0 | 36 | 0.12 | 15 | 600 |
| TopLine 100W | | | | | | | | | |
| 0001246 | PBO 100W R NormMax Xtra LL | 100 | 176 | 21 | 0.5 | 32 | 0.06 | 26 | 1000 |
| 0001279 | PBO 100W R NormMax LL | 100 | 176 | 21 | 0.7 | 32 | 0.08 | 23 | 1000 |
| 0001280 | PBO 100W R NormMax+ LL | 100 | 176 | 21 | 1.0 | 32 | 0.11 | 18 | 1000 |
| 0001286 | PBO 160W R NormMax Ultra LL | 160 | 176 | 25 | 0.3 | 38 | 0,05 | 30 | 1000 |
| 0001320 | PBO 160W R NormMax Xtra LL | 160 | 176 | 25 | 0.6 | 38 | 0.07 | 22 | 1000 |
| 0001281 | PBO 160W R NormMax LL | 160 | 176 | 25 | 0.8 | 46 | 0,09 | 17 | 1000 |
| 0001234 | PBO 160W R NormMax+ LL | 160 | 176 | 25 | 0.95 | 38 | 0.13 | 14 | 1000 |
| 0001275 | PPB 160W R NormMax + LL | 160 | 176 | 28 | 0.7 | 46 | 0.11 | 17 | 1000 |
| Extra-long tubes | | | | | | | | | |
| 0001274 | PPB 180/250W R NormMax LL 2m | 180-250 | 200 | 28 | 0.35 | 51 | 0.08 | 23 | 1000 |



Dimensions (mm)



Not all sun beds need to be equipped with reduced power tubes in order to conform with the 0.3 W/m² directive. For these applications Sylvania continues to offer a comprehensive selection of high output tubes delivering high erythemal performance.



The products are split into the same categories of ClassicLine, PerformanceLine and TopLine to suit the lifetime and performance requirements of different consumers

CLASSICLINE: for the beginner

- Closed glass tube limits the deeper UV wavelengths
- Lower cost tube suitable for the beginner
- Guaranteed UV output for 600 hours life

PERFORMANCELINE: for immediate tanning

- Professional quality open glass tube lets out the important UV wavelengths
- Ideal choice for professional studios
- High levels of direct pigmentation are achieved thanks to the optimised UV-A spectrum
- Guaranteed UV output for 600 hours life

TOPLINE: for the professional

- Ultimate output of 100W to 250W for reduced tanning times
- Professional quality open glass tube lets out the important UV wavelengths
- Top performance choice for professional studios
- DirectTan technology for instant visual results
- PurePower models deliver up to 30% more direct pigmentation
- Guaranteed UV output for industry-leading 1000 hours life
- Sylvania LongLife technology delivers low cost of ownership for professional salons

Directions For Use

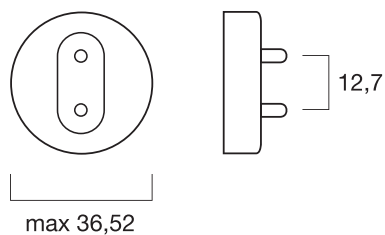
- Always consider the type of equipment and your skin type when using Sylvania tanning tubes



PureBronze Suntanning – Low Pressure Class 5 Range

| Code | Description | Watt (W) | Length (CM) | Typical radiation strength* (mW/cm ²) | UV-B (%) | UV-A (W) | Sun/erythema factor (fse) | Sunning time** HT 3 (min.) | Average Rated Life (Hrs) |
|-----------------------------|-------------------|----------|-------------|---|----------|----------|---------------------------|----------------------------|--------------------------|
| Classic 25-36W | | | | | | | | | |
| 0003013 | PBO 25W 1.5 | 25 | 52 | 16 | 1.5 | 5.5 | 0.08 | 14 | 600 |
| 0003011 | PBO 25W 2.5 | 25 | 52 | 16 | 1.5 | 5.5 | 0.11 | 12 | 600 |
| Performance 80-100W | | | | | | | | | |
| 0001168 | PBO 80W 2.3R | 80 | 150 | 19 | 2.3 | 21 | 0.21 | 9 | 600 |
| 0001206 | PBO 100W 2.6R | 100 | 176 | 19 | 2.6 | 30 | 0.23 | 12 | 600 |
| Performance 140-160W | | | | | | | | | |
| 0001213 | PBO 140W 2.3 R | 140 | 150 | 23 | 2.3 | 30 | 0.26 | 8 | 600 |
| 0001221 | PBO 160W 2.0 R | 160 | 176 | 23 | 2.0 | 38 | 0.25 | 9 | 600 |
| 0001223 | PBO 160W 2.6 R | 160 | 176 | 23 | 2.6 | 38 | 0.30 | 6 | 600 |
| 0001283 | PBO 160W 3.3 R | 160 | 176 | 23 | 3.3 | 38 | 0.32 | 4 | 600 |
| 0001284 | PBO 160W 3.6 R LL | 160 | 176 | 20 | 3.6 | 38 | 0.34 | 3 | 600 |

| Code | Description | Watt (W) | Length (CM) | Typical radiation strength* (mW/cm2) | UV-B (%) | UV-A (W) | Sun/erythema factor (fse) | Sunning time** HT 3 (min.) | Average Rated Life (Hrs) |
|-------------------------|--------------------------|----------|-------------|--------------------------------------|----------|----------|---------------------------|----------------------------|--------------------------|
| Extra-long tubes | | | | | | | | | |
| 0001228 | PBO 120W 2,0 R 2m | 100-120 | 200 | 19 | 2.0 | 32 | 0.19 | 10 | 600 |
| 0001233 | PBO 180W 2,0 R 1,9m | 160-200 | 600 | 23 | 2.0 | 42 | 0.25 | 9 | 600 |
| 0001245 | PBO 180W 3,3 R 1,9m | 160-200 | 190 | 23 | 3.3 | 41 | 0.32 | 4 | 600 |
| 0001237 | PBO 180W 2,6 R 2m | 160-200 | 200 | 23 | 2.6 | 42 | 0.30 | 6 | 600 |
| TopLine 100W | | | | | | | | | |
| 0001309 | PBO 100W 3,6 R LL | 100 | 176 | 19 | 3.6 | 30 | 0.31 | 6 | 1000 |
| TopLine 140-160W | | | | | | | | | |
| 0001226 | PBO 160W 2,3 R LL | 160 | 176 | 23 | 2.3 | 38 | 0.27 | 8 | 1000 |
| 0001312 | PPB 160W 3,0 R LL | 160 | 176 | 28 | 3.0 | 46 | 0.42 | 5 | 1000 |
| 0001307 | PPB 160W 3,6 R LL | 160 | 176 | 28 | 3.6 | 46 | 0.50 | 3 | 1000 |
| Extra-Long tubes | | | | | | | | | |
| 0001239 | PPO 180W 2,6 R LL 2m | 160-200 | 200 | 23 | 2.6 | 42 | 0.27 | 7 | 1000 |
| 0001285 | PPO 180W 3,6 R LL 2m | 160-200 | 176 | 28 | 3.6 | 46 | 0.50 | 3 | 1000 |
| 0001258 | PPB 180/250W 2,3 R LL 2m | 180-250 | 200 | 28 | 2.3 | 50 | 0.37 | 5.5 | 1000 |
| 0001318 | PPB 180/250W 3,0 R LL 2m | 180-250 | 200 | 28 | 2.6 | 50 | 0.42 | 5 | 1000 |
| 0001319 | PPB 180/250W 3,6 R LL 2m | 180-25 | 200 | 32 | 3.3 | 53 | 0.52 | 3 | 1000 |



Dimensions (mm)



Features

- Will perfectly start the PureBronze fluorescent lamps
- Works with a broad range of lamp wattages
- Long Life (at least 20.000 starts)
- No delay or flickering. This avoids unnecessary blackening around the electrodes and lengthens the lamps economic life
- Resistant to ultra-violet light
- ENEC, VDE and VL approved

Applications

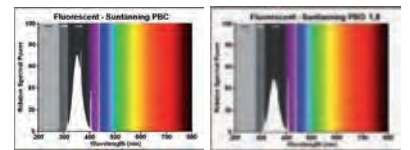
- Sunbeds

Directions For Use

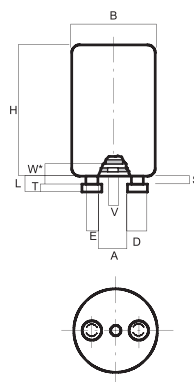
- Single electrical circuit
- Designed for use on 220-240V
- Minimum ambient temperature: 0°C min
- Maximum temperature in any part of the starter: 100°C max
- Sylvania recommends to change the starters when changing lamps and not later than the second lamp change

Pure Bronze Suntanning Starters

| Code | Starter Type | Watt (W) | Volt (V) | No. of Starts (K) | Electrical Circuit | Packing Qty |
|---------|------------------------|----------|----------|-------------------|--------------------|-------------|
| 0024479 | PureBronze PBS 120-180 | 120-180 | 220-240 | 20 | Single | 25 |



| Dimension | Min. | Max. |
|-----------|------|------|
| A | 12,5 | 12,9 |
| B | - | 21,5 |
| D | 4,7 | 5,0 |
| E | 2,8 | 3,2 |
| H | 33,0 | 36,0 |
| L | - | 4,3 |
| S | 1,7 | - |
| T | 1,9 | 2,2 |
| V | 2,7 | - |
| W* | 4,2 | - |



Dimensions (mm)

Technical information

Ballast lumen factor BLF (%)

Refers to the ratio of light output from the lamp on emergency operation to the nominal light output.

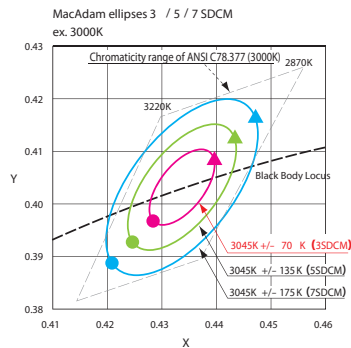
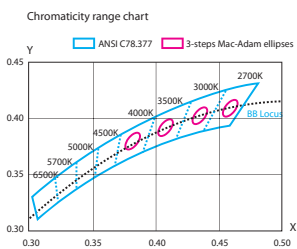
Beam Angle

Indicates how broadly the light is emitted from a reflector lamp. It can be thought of as an imaginary cone whose apex intersects the lamp face, and the breadth of the cone extends outwards to the point where luminous intensity has diminished to 50% of the centre beam value.

Binning

The term binning refers to the variations which occur within a single production batch of LED's such as chromaticity, lumen output and forward voltage. It is important that a specific bin has been identified and selected to ensure a uniform and constantly even lighting installation is achieved. If all the LED's were selected from one production batch and used in the same luminaire or installation, there would be a mix of colour temperatures and brightness levels. For the lighting manufacturer / designer binning is an essential part of LED specification.

MacAdam ellipses methodology was created in 1943 for mathematically constructing ellipses around target points, something which became very useful for the lamp industry. ANSI C78.377 is now the standard for chromaticity specified by the American National Standards Institute. ANSI recommends that lamp manufacturers stay within a "4-step" ellipse. This means that, given a certain target point on the CIE diagram, manufacturers are given a fairly wide range of perceptible differences.



Candela (cd)

The unit of measurement for luminous intensity, which refers to the quantity of light emitted in a particular direction. The symbol is cd.

Colour Correlated Temperature (CCT)

An incandescent light bulb is very close to a perfect black-body radiator, so its colour temperature is basically the temperature of the filament. However many light sources, such as fluorescent tubes or high intensity discharge lamps, emit light by processes other than thermal radiation and therefore it is not possible to apply the black-body spectrum. For these light sources it is possible to assign what is known as a colour correlated temperature (CCT). The CCT is the colour temperature of a black-body (Planckian) radiator which most closely matches the colour of the light emitted from the lamp.



Warm White 3000K

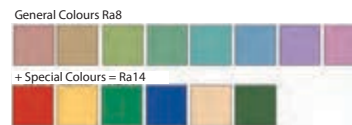
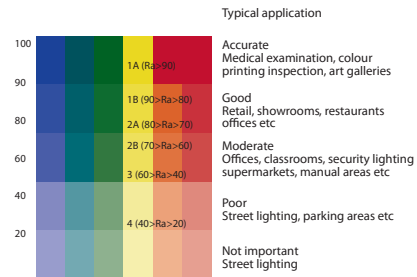


Neutral White 4000K

Colour Rendering Index (CRI)

The colour rendering of a light source is an indicator of its ability to realistically reproduce the colour of an object. The chart illustrates our ability to accurately determine colour depending on the colour rendering properties of the light source. The higher the colour rendering index (on a scale of 0 to 100) of the source the better our ability to perceive differences in colour, which is a considerable aid to highlighting fashion products and effective display of coloured artworks.

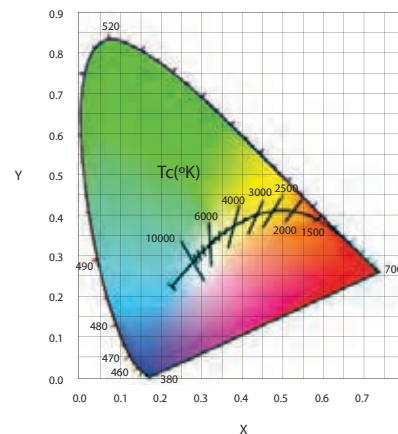
The CIE colour rendering index (CRI) is a method to determine how well a light source's illumination of eight standardised colour patches compares to the illumination provided by a reference source. At Ra (8) the perceived colour shift of eight reference colours is measured as a percentage and averaged to give one number. However it is currently understood that due to the spectral power distribution of LED's that instead of using the standard Ra8 it is important to include 7 additional colours which include red, yellow, blue & green and use Ra14 to ensure better results.



Colour Temperature

Colour temperature is a characteristic of visible light that plays a significant role in lighting applications. The colour temperature of a light source is the temperature of a perfect black-body radiator that radiates light of a similar appearance to that of the light source. The colour temperature is measured in units of absolute temperature; Kelvin (K).

Colour temperature works paradoxically to our cultural associations with colour, red as hot and blue as cold. On the black-body curve, blue occurs at higher temperatures than red. A good example is a candle which has a warm red orange appearance but in fact has a low Kelvin temperature, 1850K. Therefore higher colour temperatures (5000K more) are called cool colours (blueish white); lower colour temperatures (2700 – 3000K) are called warm colours (yellowish white through red).



The Planckian locus shows the chromaticities of black-body light sources of various colour temperatures and lines of constant correlated colour temperature shown within the CIE chromaticity diagram

Dimmability

The Sylvania lamps range includes dimmable LEDs lamps. Most conventional dimmers have been designed for incandescent lamps and are therefore rated for higher minimum loads (W) than LED lamps consume. There may therefore be some restrictions in terms of functionality of dimmers with individual LEDs – but when more than one lamp is used to increase the total loading, dimming becomes easier.

Downward Flux Fraction (DFF)

The factor of the total LOR, which is downward, taking the combined ULOR and DLOR as 100%. Using Cassini as an example, the DLOR is 37% and the ULOR is 15% so the combined is 52%. If this is taken as 100% LOR, 72% is downward (37% divided by 53%).

Drivers

Electronic devices that transform the high mains voltage into a constant current lower voltage for operating the LEDs. A miniature electronic driver is contained inside the base of each Sylvania LED lamp.

Glare

Glare is the discomfort caused by high luminances in the field of vision.

Heat Sink

A device used to conduct heat away from the LED sources and dissipate it to the surrounding air. The more efficiently an LED is cooled the greater its efficacy, light output and lifetime. Materials having excellent thermal properties and optimised cooling fin geometries are engineered into Havells-Sylvania lamps and luminaires to deliver the pinnacle of performance.

Infrared (IR) Radiation

Comprises electromagnetic waves in the spectral range between visible light and microwaves, which produce a heating effect when absorbed by materials. All lamps and luminaires produce infrared radiation, but the quantity emitted by LEDs is far lower than other technologies and this makes them ideal for reducing air conditioning load, as well as for the illumination of heat-sensitive goods.

Illuminance

This definition determines the amount of light that covers a surface. If Φ is the luminous flux and S is the area of the given surface then the illuminance E is determined by $E = \Phi/S$. The unit of illuminance in SI system is lx, and in foot-pound system it is foot-candle. One lx is the illuminance of 1 m² surface area uniformly lighted by 1 lm of luminous flux.

Junction Temperature (Tj)

The temperature of the Junction of the LED die inside the LED lamp. Measuring the LED die temperature by direct mechanical means is difficult and may lead to erroneous results. It is recommended that the Tj is calculated with manufacturer's data through measurement of the temperature at the solder point (Tsp).

LED (Light Emitting Diode)

An electronic semiconductor component which emits light when an electrical current flows through it. The colour of light emitted depends on the chemical doping of the semiconductor material.

Lens

An optical component having two refractive surfaces, at least one of which is either convex or concave. In LED lamps the function of a lens is to focus or disperse the light rays to achieve the desired beam angle or light distribution pattern.

Lifetime

LED lamps can have extremely long lives, however their light output diminishes as they age. They can carry on working until they are emitting less than 10% of their initial light output, but with so little light left they would be practically useless. Sylvania defines the lifetime of its LED lamps the same way as for other lamps: i.e. the burning hours until the light output has decreased to 70% of the initial value, or when 50% of a group of lamps will have failed – whichever is the soonest. The International Electrotechnical Commission (IEC) is currently preparing an international standard based on similar threshold values.

Light

Light Electromagnetic radiation with a wavelength between 380-780nm. Ultraviolet light has a wavelength of less than 380nm whilst infrared light's is greater than 720nm.

Lighting level

The incidence of light flux on a surface per unit of area, measured in lux. There is a difference between the vertical and horizontal lighting level.

Light output ratio (LOR)

The ratio of the luminaire light output to lamp light output. The efficiency of the luminaire.

Lumen (lm)

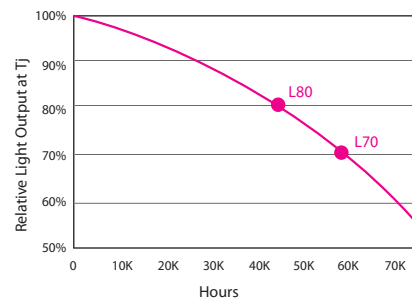
Unit of luminous flux used to describe a quantity of light emitted by a source or received by a surface.

Lumen Maintenance

Rated Lumen Maintenance Life (Lxx): The elapsed operating time over which the LED light source will the percentage, xx, of its initial light output.

- L80 = Time to 80% lumen maintenance, in hours
- L70 = Time to 70% lumen maintenance, in hours

For LED lamps and luminaires, lumen maintenance is often shown as curves of relative lumen output over time for the LED under various operating conditions, such as drive current and junction temperature.



Luminaire efficiency

How well a luminaire uses the luminous flux of the lamp(s) employed. This ratio is calculated by dividing the total luminaire lumens by the total circuit watts.

Luminance

The measure of brightness with which the eye perceives an illuminated surface from a certain direction. The luminous intensity per unit of visible surface of a light source (direct) or an illuminated surface (reflection). Luminance is indicated in candelas per square metre (cd/m²).

Luminous efficacy (lm/w)

Indicates how efficiently a light source converts electrical energy to light.

Luminous flux (lm)

The total light output of a light source measured in lumens.

Luminous intensity (cd)

The power of a source or illuminated surface to emit light in a particular direction, measured in candelas.

Lux (lux)

The unit of illuminance, equal to one lumen per square metre (lm/m²).

Technical information

Performance cone

Shows whether the luminaire emits a narrow or wide beam of light and indicates the lighting level measured at the centre of the beam. The beam diameter and angle indicate where half the illuminance is measured in relation to the centre of the beam. It gives only a rough guide of the size of beams narrower than 40°.

Polar curve

The graphic representation of the luminous intensity in different directions. If two curves are plotted, the distributions are in two vertical planes. The value is indicated in candelas per 1000 lumen (cd/klm) and therefore must be multiplied by the nominal luminous flux of the lamp(s) used. The polar curve graph also indicates luminaire efficiency.

Recycling

Havells-Sylvania lamps and luminaires are extremely durable and do not contain any mercury, lead or other toxic metals. However because their drivers contain electronic components they must be disposed of as waste electrical and electronic equipment at the end of their life.

Reflector

An optical component having a mirror surface, which captures light rays from the source and bounces them back at a particular angle. Although more commonly used in incandescent and halogen lamps, some Sylvania LED lamps use reflectors to control their light instead of a lens.

Room index K

An index relating to the dimensions of a room influencing the amount of light emitted from the fitting onto the working surface.

$$K = \frac{a \times b}{h \times (a+b)}$$

where: a = room length

b = room width

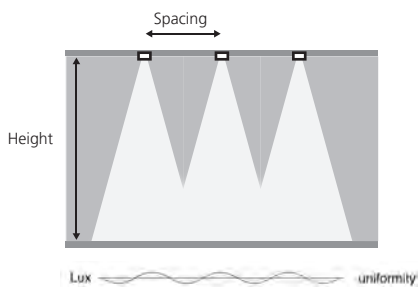
h = height between the luminaire and working surface

Shielding angle (°)

The horizontally measured angle from which the lamp or reflection from it in the reflector is no longer visible. It is an important measure of glare and, therefore, light comfort.

Spacing to height ratio (SHR)

Used to determine the maximum distance between luminaires. The ratio of the distance between adjacent luminaires to the distance between the luminaire plane and the horizontal working plane.



Switching Frequency

LED lamps cannot be switched on and off indefinitely, but are rated to tolerate an impressive 60,000 switching cycles or more.

TCO (Total Cost of Ownership)

TCO includes all the costs over the entire life of a lamp or for a particular operating time. It covers procurement costs, electricity consumption costs, relamping costs and may even incorporate a reduction in the necessary air conditioning load. LEDs are presently more expensive to purchase than lamps based on other technologies, but their minimal energy consumption results in rapid payback when replacing incandescent and halogen lamps.

Transformer

A device for reducing the high mains voltage down to a lower voltage. A distinction is made between conventional (magnetic) transformers and electronic transformers. Sylvania low voltage LEDs will function on all magnetic transformers, and compatibility details with electronic transformers are available in the technical data sheets.

Uniformity ratio of illuminance

This indicates the degree of evenness of the light on the working surface and is shown as a ratio of the minimum to the mean lighting level on a surface. The lower the number the more disturbing the light.

Ultra Violet (UV) radiation

Comprises electromagnetic waves in the spectral range between visible light and X-rays, which are invisible to the human eye but essential for all life (delivered via natural sunlight). Small amounts of UV are emitted by many light sources (e.g. Halogen and Discharge) and over time will cause fading of coloured objects being illuminated. Havells-Sylvania lamps and luminaires do not emit any UV radiation.

Utilisation factor

The ratio of the light flux which the reference surface receives to the totalled luminous fluxes of the installation lamps. This is influenced by the shape of the room and selected luminaire and is expressed in the form of UF tables.

Volt

The derived SI unit of electrical pressure (symbol V). Low voltage LED lamps (12V) operate with transformers. High-voltage LED lamps can be operated directly on the mains supply (220-240V).

Watt

Watt is the SI unit of power and was used for incandescent lamps as an indication of their light output. Since modern energy saving lamps and LED lamps consume far less power to achieve the same brightness, however, the wattage is no longer as meaningful. The lumen value is now used instead.

Wattage Comparison According to ErP

The EU directive for nondirectional light (ErP DIM I) requires a certain luminous flux from LED lamps to make a comparison with incandescent lamps.

| Abbreviations | Meaning |
|-------------------|---|
| 1 | 1 pack |
| 10 | 10 pack |
| 830 | 3000K lamp |
| 840 | 4000K lamp |
| 1-10V | 1-10V analogue dimmable ballast |
| 3 hour emrg. | 3 hours emergency |
| 3 PK | 3 Pack |
| ALU | Aluminium |
| ASYM | Asymmetric |
| BL | Black |
| BRI | Bright |
| CHR | Chrome |
| CON | Connected |
| DALI | Digital Adjustable Lighting Interface |
| DB | Dimmable ballast |
| DB10 | 1-10V analogue dimmable ballast |
| DBDA | Dimmable DALI |
| DBLASYM | Double asymmetric |
| DSI | Digital Serial Interface |
| DS | Double Sided light output |
| E1 | Emergency 1 hour |
| E3 | Emergency 3 hours |
| EB | Electronic ballast |
| EXTGEAR | External gear tray |
| GRY | Grey |
| GRY DIFF | Grey diffuser |
| HF | High Frequency ballast or, Electronic ballast |
| HQPS | High Quality PolyStyrene |
| HV | High Voltage |
| LIN | Linear |
| LLB | Low Loss Ballast or, Magnetic ballast |
| LLB NC | Non Compensated |
| LLB PC | Parrallel Compensated |
| Magn. El. Starter | Magnetic Electric starter |
| MECH CON | Mechanical connection |
| MEDI | Medium |
| MGR | Magnetic gear |
| MW | Microwave sensor |
| NARR | Narrow |
| No PFC | No Per Factor Correction |
| NW | Neutral white |
| PC | Polycarbonate |
| PEND | Pendant |
| PSM | Prismatic |
| PULLC | Pull cord |
| PUSHB | Push button |
| RAP.D | Rapid double |
| RAPS | Rapid single |
| REC | Recessed |
| REFL | Reflector |
| RGB | Red Green Blue |
| RU | Rust |
| SAT | Satin |
| SHAVS | Shaver socket |
| SI | Silver |
| SS | Single Sided light output |
| STE | Brushed steel |
| STRPL | Strip light |
| SURF | Surface mounted |
| SUSP | Suspension kit |
| SYM | Symmetric |
| TLT | Tilt |
| UV | Ultra Violet |
| WHT | White |
| WW | Warm white |

Emergency Lighting

Emergency lighting is a vital and necessary safety requirement for most building types. The safety it provides for occupants is paramount and not negotiable.

Product Safety

- All Havells-Sylvania carry the CE mark. They are designed to conform to BS EN 60.598 2-22 and are manufactured in accordance with the quality system BS EN ISO 9001:2000 under certificate number FM01687
- Any emergency lighting luminaire conversion other than by Havells-Sylvania to a CE marked luminaire invalidates this CE marking and its associated legal protection

Emergency Lighting Equipment

This comprises an inverter plus a set of batteries, which conform to BS EN 60.598 2-22 and may be mounted:

- Integral within the luminaire (self contained – integral)
- Remote from, but within 1 metre of, the luminaire (self contained remote)

Non-maintained Operation

In this mode of operation the emergency lighting lamps are not normally energized. An automatic monitoring and switching system is provided to switch on the emergency lighting if the normal supply is interrupted

Maintained Operation

- A single lamp is used for both general and emergency modes
- In multi-lamp luminaires only one lamp will be used for the provision of emergency illumination
- Emergency lighting is provided for at least 3 hours (1 hour duration available to special order)

Maintained Remote Emergency Control

The majority of Havells-Sylvania maintained emergency luminaires are supplied with integral emergency control gear. Where the housing design precludes integral gear a remote control box is provided complete with connection cables

Product Combined Operation (also known as Sustained)

- Separate lamps provide general and emergency illumination
- Emergency lighting is provided for at least 3 hours. (1 hour duration available to special order)

Self-testing

Automatic self-testing and monitoring of Havells-Sylvania luminaires is available to special order on a project basis

Central Battery

Havells-Sylvania luminaires for use with a central battery system are available to special order on a project basis

System Design

This guide should be read in conjunction with current standards

Legislation Changes & Requirements

The British Standard BS5266 has been revised to conform with the European Standard EN1838 (issued in the UK under reference BS EN1838/BS5266 Part 7) which specifies luminous requirements for emergency systems installed in premises. It also now calls up the luminaire product standard BS EN60598-2-22: 1999

Emergency lighting is provided for use when the supply to the normal lighting fails and is therefore powered from a source independent of that supplying the normal lighting. For the purposes of this standard emergency lighting is regarded as a generic term of which there are a number of forms

Definitions

Emergency Exit

A way out that is intended to be used in an emergency.

Escape Route

A route designated for escape in the event of an emergency

Emergency Escape Lighting

That part of emergency lighting that provides illumination for the safety of people leaving a location or attempting to terminate a potentially dangerous process before doing so.

Escape Route Lighting

That part of emergency escape lighting provided to ensure that the means of escape can be effectively identified and safely used when the location is occupied

Open Area Lighting

In some countries this is known as anti-panic lighting. This relates to that part of emergency escape lighting provided to avoid panic and provide illumination, allowing people to reach a place where an escape route can be identified

High Risk Task Area Lighting

That part of emergency escape lighting that provides illumination for the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the safety of the operator and other occupants of the premises

Areas Covered/Levels of Illumination

Defined Escape Route

Based on 2m wide on the horizontal plane, preferably 1 lux but not less than 0.2 lux on the centre line. The lighting provided should operate within 5 seconds of the failure of the normal supply

Open Area (Sometimes referred to as 'anti-panic' lighting)



































Not less than 0.5 lux at floor level of the open space. The ratio of max to min illuminance should be greater than 40:1.

These extracts are provided for guidance purposes. In order to fully comply with the many elements of the various applicable standards, a full and thorough assessment must be made

Electrical protection

EN 60.598

-  Class 1 – fittings comply with class 1 (I) earthed electrical requirements i.e. functional insulation in all parts and earth termination.
-  Class 2 – fittings comply with class 2 (II) double insulated electrical requirements i.e. complete insulation in all parts without earth termination. In the event of an electrical fault, no dangerous voltage can reach touchable metal parts.
-  Class 3 – fittings comply with class 3 (III) triple insulated electrical requirements i.e. designed to connect to an external low voltage supply which is the same as the internal operating voltage requirement. In the event of an electrical fault, no dangerous voltage can develop. Inflammability of surface protection EN 60.598
-  Suitable for mounting in or on furniture made or semi-incombustible or normally combustible materials such as wood.
-  Fittings made for mounting in or on furniture made of materials of unknown properties.
-  Passes the 650° glow wire test in accordance with IEC 695-2-1.
-  Horizontal rotation
-  Vertical tilt
-  Safety isolating transformer
-  Electronic transformer
-  Electronic ballast/gear
-  HID lamp requires an external ignitor
-  Ceiling cut-out – round
-  Ceiling cut-out – square
-  Trailing edge dimmable (capacitive)
-  Leading edge dimmable (inductive)
-  Ingress protection
-  Impact protection
-  Minimum distance in metres permitted from lighted object
-  European Norms Electrical Certification
-  Suitable for Office applications
-  Suitable for Healthcare applications
-  Suitable for Education applications
-  Suitable for Retail and Display applications
-  Suitable for Exterior applications






-  Allowed lamp operating positions
-  Universal burning position
-  Horizontal burning position
-  Vertical burning position
-  Incandescent Candle and Ball: Base up not allowed
-  Lamp can be operated in luminaires without a protective shield
-  Lamp should be operated only in a luminaire provided with a protective shield
-  Lamp emits a high level of UV radiation
-  Reduced UV emissions
-  Cool beam reflector
-  Not dimmable
-  Protection against water contact
-  Internal ignitor
-  External ignitor
-  Ballast is required
-  Lamp should not be operated when the outer bulb is broken
-  Be aware of high temperatures when replacing lamp
-  Do not hold the lamp glass when installing or removing
-  Switch off power supply before replacing lamp
-  Do not touch lamp with bare fingers when replacing lamp
-  Energy saving
-  Treat lamp as small chemical waste
-  Open packaging and read instructions
-  Read instructions before use
-  Lamp complies with legal standards
-  Lamp complies with legal standards
-  Grüne Punkt
-  Bowl Mirror lamps
-  Luminaire can be looped
-  RoHS compliant
-  WEEE compliant
-  Warranty logo, please refer to intro pages for full details
-  Ball resistant luminaire
-  RAL reference

Lamp Information for luminaires

Throughout the catalogue, lamp boxes provide guidance on lighting performance. Beam angles quoted are usually for either a lamp and reflector combination or a reflector type lamp. **Note** that beam angles quoted are at 50% of the peak intensity.
























In the case of the lamp plus a reflector, the beam angle quoted will indicate the designed performance. However, in the case of the reflector lamp the quoted beam angle will be the 'bare-lamp' performance for that recommended lamp. The actual performance for a reflector lamp, within a luminaire, will be indicated by a polar curve for the particular lamp/luminaire combination - usually shown on the same page. There will sometimes be a small variation between luminaire performance and the lamp in 'bare-lamp' configuration.

LED Lamps

| Title | Sylvania | ZVEI | ILCOS | Ømm | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (IL) | Peak Intensity (Cd) | Beam (50%) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|---|----------------------|------|-------|-------|-------------|---------------|-----------|---------------------|---------------------|------------|--------------------------|------------------------|-----------------------|--------------------------|
| LED Reflector  | Hi-Spot RefLED | - | - | 51 | 56 | 7.5 | GU10 | 350 | - | 25 | 25000 | 2700/ 3000/ 4000 | 85 | 1B |
|  | Hi-Spot RefLED PAR20 | - | - | 63.5 | 85 | 5.5 | E27 | 300 | - | - | 30000 | 3000 | 85 | 1B |
|  | Hi-Spot RefLED PAR30 | - | - | 95 | 80 | 11 | E27 | 680 | - | - | 30000 | 3000 | 85 | 1B |
|  | AR111 Low Voltage | - | - | 110.7 | 57 | 10 | G53 | 550 | - | 25/40 | 25000 | 3000 | 85 | 1B |
| MicroLynx LED | MicroLynx LED | - | - | 76 | 16 | 4 | GX53 | 250 | - | - | 15000 | 2700 | 85 | 1B |
| LED Non-Directional  | ToLEDo GLS | - | - | 61 | 107 | 5 | E27 | 250 | - | - | 15000 | 2700 | 85 | 1B |
| | ToLEDo GLS | - | - | 61 | 107 | 7.5 | E27 | 470 | - | - | 15000 | 2700 | 85 | 1B |
| | ToLEDo GLS | - | - | 61 | 112 | 10.5 | E27 | 806 | - | - | 15000 | 2700 | 85 | 1B |

Mains Voltage Tungsten Halogen Lamps

















Note - Permanently dimming halogen lamps shortens lamp life. Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life

| Title | Sylvania | ZVEI | ILCOS | Ømm | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (IL) | Peak Intensity (Cd) | Beam (50%) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|--|---|--------------|---------|-----|-------------|---------------|-----------|---------------------|---------------------|------------|--------------------------|-------------------|-----------------------|--------------------------|
| Quartz halogen | Hi-Pin | QT14 | HSGST/F | 14 | 44 | 42 | G9 | 460 | - | - | 2000 | 2800 | 100 | 1A |
| Matt frosted | Hi-Pin | QT14 | HSGST/F | 14 | 44 | 53 | G9 | 790 | - | - | 2000 | 2800 | 100 | 1A |
| Low pressure  |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Quartz halogen | - | QT-DE12 | HDF | 10 | 78.3 | 48 | R7s | 840 | - | - | 2000 | 2900 | 100 | 1A |
| Double ended tube | Linear DE Eco | QT-DE12 | HDF | 10 | 78.3 | 80 | R7s | 1600 | - | - | 2000 | 2900 | 100 | 1A |
| | Linear DE Eco | QT-DE12 | HDF | 10 | 78.3 | 120 | R7s | 2600 | - | - | 2000 | 2900 | 100 | 1A |
|  | Linear DE Eco | QT-DE12 | HDF | 8 | 118.6 | 160 | R7s | 3000 | - | - | 2000 | 2880 | 100 | 1A |
|  | Linear DE Eco | QT-DE12 | HDF | 8 | 118.6 | 230 | R7s | 4800 | - | - | 2000 | 2900 | 100 | 1A |
| | Linear DE Eco | QT-DE12 | HDF | 8 | 118.6 | 400 | R7s | 9250 | - | - | 2000 | 2900 | 100 | 1A |
| | Linear DE Eco | QT-DE12 | HDF | 12 | 189.1 | 1000 | R7s | 22000 | - | - | 2000 | 2900 | 100 | 1A |
| | Linear DE Eco | QT-DE12 | HDF | 12 | 254.1 | 1500 | R7s | 33000 | - | - | 2000 | 2900 | 100 | 1A |
| | Linear DE Eco | QT-DE12 | HDF | 12 | 331 | 2000 | R7s | 44000 | - | - | 2000 | 2900 | 100 | 1A |
| Halogen PAR16 | Hi-Spot ES50 | QPAR16 | HAGSPAR | 50 | 55 | 35 | GU10 | 315 | 800 | 25 | 2500 | 2700 | 100 | 1A |
| Clear | Hi-Spot ES50 | QPAR16 | HAGSPAR | 50 | 55 | 50 | GU10 | 525 | 1300 | 25 | 2500 | 2700 | 100 | 1A |
| Low Pressure  |  | Hi-Spot ES50 | QPAR16 | 50 | 55 | 50 | GU10 | 525 | 500 | 50 | 2500 | 2700 | 100 | 1A |
|  | | | | | | | | | | | | | | |
| Halogen PAR16 | Hi-Spot 50 | QPAR16 | HAPAR | 50 | 77 | 40 | E14 | 400 | 950 | 25 | 2000 | 2700 | 100 | 1A |
| Clear | | | | | | | | | | | | | | |
| Low Pressure  |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Halogen PAR20 | Hi-Spot ES63 | QPAR63 | HAGSPAR | 62 | 64 | 50 | GU10 | 525 | 1500 | 25 | 2500 | 2750 | 100 | 1A |
| Clear | Hi-Spot ES63 | QPAR63 | HAGSPAR | 62 | 64 | 75 | GU10 | 980 | 2500 | 25 | 2500 | 2750 | 100 | 1A |
| Low Pressure  |  | Hi-Spot ES63 | QPAR63 | 62 | 64 | 75 | GU10 | 980 | 1000 | 25 | 2500 | 2750 | 100 | 1A |
|  | | | | | | | | | | | | | | |
| Halogen PAR20 | Hi-Spot 63 | QPAR20 | HAPAR | 65 | 88 | 50 | E27 | 630 | 3000 | 10 | 2500 | 2900 | 100 | 1A |
| Clear | Hi-Spot 63 | QPAR20 | HAPAR | 65 | 88 | 50 | E27 | 630 | 1000 | 25 | 2500 | 2900 | 100 | 1A |
| Low Pressure  |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Halogen PAR25 | Hi-Spot 80 | QPAR80 | HAPAR | 81 | 108 | 50 | E27 | 630 | 4000 | 10 | 2500 | 2900 | 100 | 1A |
| Clear | Hi-Spot 80 | QPAR80 | HAPAR | 81 | 108 | 50 | E27 | 630 | 1100 | 25 | 2500 | 2900 | 100 | 1A |
| Low Pressure  |  | Hi-Spot 80 | QPAR80 | 81 | 108 | 75 | E27 | 1050 | 5500 | 10 | 3000 | 2900 | 100 | 1A |
|  | | Hi-Spot 80 | QPAR80 | 81 | 108 | 75 | E27 | 1050 | 1300 | 25 | 3000 | 2900 | 100 | 1A |
| Halogen PAR30 | Hi-Spot 95 | QPAR30 | HAPAR | 97 | 88 | 75 | E27 | 1050 | 6900 | 10 | 2500 | 2900 | 100 | 1A |
| Clear | Hi-Spot 95 | QPAR30 | HAPAR | 97 | 88 | 75 | E27 | 1050 | 2200 | 30 | 2500 | 2900 | 100 | 1A |
| Low Pressure  |  | Hi-Spot 95 | QPAR30 | 97 | 88 | 100 | E27 | 1550 | 10000 | 10 | 3000 | 2900 | 100 | 1A |
|  | | Hi-Spot 95 | QPAR30 | 97 | 88 | 100 | E27 | 1550 | 3500 | 30 | 3000 | 2900 | 100 | 1A |

Lamp Information for luminaires












Low Voltage Tungsten Halogen Lamps - 12V

Note - Permanently dimming tungsten halogen lamps shortens lamp life. Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life

| Title | Sylvania | ZVEI | ILCOS | Ømm | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (IL) | Peak Intensity (Cd) | Beam (50%) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|---|--------------------|------------|--------|------|-------------|---------------|-----------|---------------------|---------------------|------------|--------------------------|-------------------|-----------------------|--------------------------|
| Tungsten halogen  | Capsule LP | QT9-LPax | HSG/LP | 9 | 33 | 5 | G4 | 40 | - | - | 2000 | 2800 | 100 | 1A |
| Capsule - axial filament | Capsule LP | QT9-LPax | HSG/LP | 9 | 33 | 10 | G4 | 100 | - | - | 2000 | 2800 | 100 | 1A |
| Clear | Capsule LP | QT9-LPax | HSG/LP | 9 | 33 | 20 | G4 | 260 | - | - | 2000 | 2800 | 100 | 1A |
| Low Pressure  | - | QT12-LPax | HSG/LP | 12 | 44 | 20 | GY6.35 | 300 | - | - | 3000 | 3000 | 100 | 1A |
|  | Capsule LP | QT12-LPax | HSG/LP | 12 | 44 | 35 | GY6.35 | 520 | - | - | 2000 | 2900 | 100 | 1A |
| | Capsule LP | QT12-LPax | HSG/LP | 12 | 44 | 50 | GY6.35 | 900 | - | - | 2000 | 2900 | 100 | 1A |
| | - | QT12-LPax | HSG/LP | 12 | 44 | 75 | GY6.35 | 1600 | - | - | 3000 | 3000 | 100 | 1A |
| | - | QT12-LPax | HSG/LP | 12 | 44 | 100 | GY6.35 | 2300 | - | - | 3000 | 3000 | 100 | 1A |
| Tungsten halogen  | | | | | | | | | | | | | | |
| Capsule - axial filament | Capsule | QT12-Uvrax | HSG | 12 | 44 | 35 | GY6.35 | 650 | - | - | 3000 | 3000 | 100 | 1A |
| Clear | Capsule | QT12-Uvrax | HSG | 12 | 44 | 50 | GY6.35 | 1000 | - | - | 3000 | 3000 | 100 | 1A |
|  | Capsule | QT12-Uvrax | HSG | 12 | 44 | 75 | GY6.35 | 1600 | - | - | 3000 | 3000 | 100 | 1A |
| Only use in fixtures with toughened 1A front safety glass | Capsule | QT12-Uvrax | HSG | 12 | 44 | 100 | GY6.35 | 2300 | - | - | 3000 | 2900 | 100 | 100 |
| MR16 Dichroic reflector axial - filament Clear front Low pressure  | | QR-CBC35 | HRGI | 35.3 | 37 | 10 | GU4 | 140 | 300 | 38 | 2000 | 3000 | 100 | 1A |
|  | | | | | | | | | | | | | | |
| Superia 35  | Superia 35 | QR-CBC35 | HRGI | 35.3 | 42 | 20 | GZ4/GU4 | - | 700 | 38 | 4000 | 2925 | 100 | 1A |
| | Superia 35 | QR-CBC35 | HRGI | 35.3 | 42 | 35 | GZ4/GU4 | - | 1350 | 38 | 4000 | 3000 | 100 | 1A |
| Superia 50 EcoPlus  | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 20 | GX/GU5.3 | - | 6000 | 10 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 20 | GX/GU5.3 | - | 1000 | 38 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 35 | GX/GU5.3 | - | 11000 | 10 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 35 | GX/GU5.3 | - | 4100 | 24 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 35 | GX/GU5.3 | - | 2000 | 36 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 45 | GX/GU5.3 | - | 15000 | 10 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 45 | GX/GU5.3 | - | 5450 | 24 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 45 | GX/GU5.3 | - | 2850 | 36 | 5000 | 3000 | 100 | 1A |
| | Superia 50 EcoPlus | QR-CBC51 | HRGI | 51 | 49 | 45 | GX/GU5.3 | - | 1300 | 60 | 5000 | 3000 | 100 | 1A |
| MR16 Quartz capsule & aluminium reflector (Coolfit 50) | | | | | | | | | | | | | | |
| Axial filament | Coolfit 50 | QR-C51 | HAGI | 51 | 49 | 20 | GX/GU5.3 | 320 | 660 | 38 | 5000 | 3000 | 100 | 1A |
| Clear front | Coolfit 50 | QR-C51 | HAGI | 51 | 49 | 35 | GX/GU5.3 | 630 | 1200 | 38 | 5000 | 3000 | 100 | 1A |
| Low pressure  | Coolfit 50 | QR-C51 | HAGI | 51 | 49 | 50 | GX/GU5.3 | 1000 | 1950 | 38 | 5000 | 3000 | 100 | 1A |
|  | Coolfit 50 | QR-C51 | HAGI | 51 | 49 | 50 | GX/GU5.3 | 1000 | 900 | 60 | 5000 | 3000 | 100 | 1A |
| AR70 Quartz capsule & aluminium reflector | | | | | | | | | | | | | | |
| Axial filament  | - | QR-LP70 | HMG | 70 | 50 | 50 | BA15d | 930 | 12500 | 8 | 3000 | 3000 | 100 | 1A |
| Clear front | - | QR-LP70 | HMG | 70 | 50 | 50 | BA15d | 930 | 2600 | 24 | 3000 | 3000 | 100 | 1A |
| Low pressure  | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| AR111 Quartz capsule & aluminium reflector | | | | | | | | | | | | | | |
| Axial filament | SA111 | QR-LP111 | HMG | 111 | 50 | 50 | G53 | 930 | 23000 | 8 | 3000 | 2900 | 100 | 1A |
| Clear front | SA111 | QR-LP111 | HMG | 111 | 50 | 50 | G53 | 930 | 4000 | 24 | 3000 | 2900 | 100 | 1A |
| Low pressure  | SA111 | QR-LP111 | HMG | 111 | 50 | 50 | G53 | 930 | 1200 | 45 | 3000 | 2900 | 100 | 1A |
|  | SA111 | QR-LP111 | HMG | 111 | 50 | 100 | G53 | 2200 | 48000 | 8 | 3000 | 2900 | 100 | 1A |
| | SA111 | QR-LP111 | HMG | 111 | 50 | 100 | G53 | 2200 | 8500 | 24 | 3000 | 2900 | 100 | 1A |
| | SA111 | QR-LP111 | HMG | 111 | 50 | 100 | G53 | 2200 | 2800 | 45 | 3000 | 2900 | 100 | 1A |

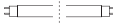
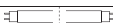
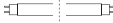

Lamp Information for luminaires

Compact fluorescent lamps [CFL]

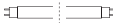
| Title | | Sylvania | ZVEI | ILCOS | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (lL) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|---------------------------------------|---|--------------|---------|-------|-------------|---------------|-----------|---------------------|--------------------------|-------------------------------|-----------------------|--------------------------|
| TC-S 2 limb, 2 pin [SS] |  | Lynx-S | TC-S | FSD | 105 | 5 | G23 | 250 | 10000 | 3000/3500/4000/6500 | 85 | 1B |
| | | Lynx-S | TC-S | FSD | 134 | 7 | G23 | 400 | 10000 | 2700/3000/3500/4000/6500 | 85 | 1B |
| | | Lynx-S | TC-S | FSD | 165 | 9 | G23 | 600 | 10000 | 2700/3000/3500/4000/6500 | 85 | 1B |
| | | Lynx-S | TC-S | FSD | 233 | 11 | G23 | 900 | 10000 | 2700/3000/3500/4000/6500 | 85 | 1B |
| TC-SEL 2 limb, 4 pin [HF] |  | Lynx-SE | TC-SEL | FSD | 85 | 5 | 2G7 | 250 | 10000 | 2700/4000 | 85 | 1B |
| | | Lynx-SE | TC-SEL | FSD | 115 | 7 | 2G7 | 400 | 10000 | 2700/4000 | 85 | 1B |
| | | Lynx-SE | TC-SEL | FSD | 145 | 9 | 2G7 | 600 | 10000 | 2700/4000 | 85 | 1B |
| | | Lynx-SE | TC-SEL | FSD | 215 | 11 | 2G7 | 900 | 10000 | 2700/4000 | 85 | 1B |
| TC-D 4 limb, 2 pin [SS] |  | Lynx-D | TC-D | FSQ | 87 | 10 | G24d-1 | 600 | 10000 | 2700/3000/3500/4000/6000/6500 | 85 | 1B |
| | | Lynx-D | TC-D | FSQ | 115 | 13 | G24d-1 | 900 | 10000 | 2700/3000/3500/4000/6000/6500 | 85 | 1B |
| | | Lynx-D | TC-D | FSQ | 129 | 18 | G24d-2 | 1200 | 10000 | 2700/3000/3500/4000/6000/6500 | 85 | 1B |
| | | Lynx-D | TC-D | FSQ | 147 | 26 | G24d-3 | 1800 | 10000 | 2700/3000/3500/4000/6000/6500 | 85 | 1B |
| TC-DEL 4 limb, 4 pin [HF] |  | Lynx-DE | TC-DEL | FSQ | 91 | 10 | G24q-1 | 600 | 12000 | 2700/3000/3500/4000 | 85 | 1B |
| | | Lynx-DE | TC-DEL | FSQ | 112 | 13 | G24q-1 | 900 | 12000 | 2700/3000/3500/4000 | 85 | 1B |
| | | Lynx-DE | TC-DEL | FSQ | 128 | 18 | G24q-2 | 1200 | 12000 | 2700/3000/3500/4000 | 85 | 1B |
| | | Lynx-DE | TC-DEL | FSQ | 149 | 26 | G24q-3 | 1800 | 12000 | 2700/3000/3500/4000 | 85 | 1B |
| TC-T 6 limb, 2 pin [SS] |  | - | TC-T | FSM | 113 | 13 | GX4d-1 | 900 | 10000 | 2700/3000/3500/4000/6500 | 85 | 1B |
| | | Lynx-T | TC-T | FSM | 100 | 18 | GX4d-2 | 1200 | 10000 | 2700/3000/3500/4000/6500 | 85 | 1B |
| | | Lynx-T | TC-T | FSM | 115 | 26 | GX4d-3 | 1800 | 10000 | 2700/3000/3500/4000/6500 | 85 | 1B |
| TC-TEL 6 limb, 4 pin [HF] |  | - | TC-TEL | FSM | 113 | 13 | GX4q-1 | 900 | 15000 | 2700/3000/3500/4000 | 85 | 1B |
| | | Lynx-TE | TC-TEL | FSM | 100 | 18 | GX4q-2 | 1200 | 15000 | 2700/3000/3500/4000 | 85 | 1B |
| | | Lynx-TE | TC-TEL | FSM | 115 | 26 | GX4q-3 | 1800 | 15000 | 2700/3000/3500/4000 | 85 | 1B |
| | | Lynx-TE | TC-TEL | FSM | 131 | 32 | GX4q-3 | 2400 | 15000 | 2700/3000/3500/4000 | 85 | 1B |
| | | Lynx-TE | TC-TEL | FSM | 152 | 42 | GX4q-4 | 3200 | 15000 | 2700/3000/3500/4000 | 85 | 1B |
| TC-TELI 6 limb, 4 pin [HF] |  | - | TC-TELI | FSM | 178 | 57 | GX24q-5 | 4300 | 12000 | 3000/4000/6000 | 82 | 1B |
| TC-L 2 limb, 4 pin [HF] |  | Lynx-L | TC-L | FSL | 225 | 18 | 2G11 | 1200 | 15000 | 3000/4000/6000 | 85 | 1B |
| | | Lynx-L | TC-L | FSL | 320 | 24 | 2G11 | 1800 | 15000 | 3000/4000/6000 | 85 | 1B |
| | | Lynx-L | TC-L | FSL | 415 | 36 | 2G11 | 2900 | 15000 | 3000/4000/6000 | 85 | 1B |
| | | Lynx-L | TC-L | FSL | 535 | 40 | 2G11 | 3500 | 15000 | 3000/4000/6000 | 85 | 1B |
| | | Lynx-L | TC-L | FSL | 535 | 55 | 2G11 | 4800 | 15000 | 3000/4000/6000 | 85 | 1B |
| TC-F 4 limb, 4 pin [HF] |  | Lynx-F | TC-F | FSM | 122 | 18 | 2G10 | 1100 | 10000 | 4000 | 85 | 1B |
| | | Lynx-F | TC-F | FSM | 165 | 24 | 2G10 | 1700 | 10000 | 3000/4000 | 85 | 1B |
| | | Lynx-F | TC-F | FSM | 217 | 36 | 2G10 | 2800 | 10000 | 3000/4000 | 85 | 1B |
| 2D 8 limb, 2 pin [SS] | - | - | TC-DD | FSF | - | 16 | GR8 | 1050 | 10000 | 2700/3000/6000 | 82 | 1B |
| 2D 8 limb, 4 pin [HF] |  | - | TC-DD | FSF | - | 16 | GR10q | 1050 | 10000 | 2700/3000/4000 | 82 | 1B |
| | | - | TC-DD | FSF | - | 28 | GR10q | 2250 | 15000 | 2700/3000/4000 | 82 | 1B |
| | | - | TC-DD | FSF | - | 38 | GR10q | 3000 | 15000 | 2700/3000/4000 | 82 | 1B |
| | | - | TC-DD | FSF | - | 55 | GRY10q-3 | 3900 | 15000 | 2700/3000/4000 | 82 | 1B |
| Micro-Lynx F With integral HF gear |  | Micro-Lynx F | TC-FSE | FBC | 75Ø | 6 | GX53 | 230 | 8000 | 2700/3000/4000 | 85 | 1B |

Lamp Information for luminaires

T5 Fluorescent Lamps

| Title | Sylvania | ZVEI | ILCOS | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (lL) | Max Lumens at 33-37° | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|--|---|---|-------|-------------|---------------|-----------|---------------------|----------------------|--------------------------|---------------------|-----------------------|--------------------------|
| T5 HE (16mm Ø) High Efficiency Triphosphor |  Luxline FHE | T16 | FDH | 549 | 14 | G5 | 1230 | 1350 | 24000 | 2700/3000/4000 | 85 | 1B |
| | Luxline FHE | T16 | FDH | 549 | 14 | G5 | 1140 | 1250 | 24000 | 6000 | 85 | 1B |
| | Luxline FHE | T16 | FDH | 849 | 21 | G5 | 1910 | 2100 | 24000 | 2700/3000/4000 | 85 | 1B |
| | Luxline FHE | T16 | FDH | 849 | 21 | G5 | 1775 | 1950 | 24000 | 6000 | 85 | 1B |
| | Luxline FHE | T16 | FDH | 1149 | 28 | G5 | 2640 | 2900 | 24000 | 2700/3000/4000 | 85 | 1B |
| | Luxline FHE | T16 | FDH | 1149 | 28 | G5 | 2460 | 1950 | 24000 | 6000 | 85 | 1B |
| | Luxline FHE | T16 | FDH | 1449 | 35 | G5 | 3300 | 3650 | 24000 | 2700/3000/4000 | 85 | 1B |
| T5 HO (16mm Ø) High Output Triphosphor |  Luxline FHO | T16 | FDH | 549 | 24 | G5 | 1700 | 2000 | 24000 | 2700/3000/4000 | 85 | 1B |
| | Luxline FHO | T16 | FDH | 549 | 24 | G5 | 1570 | 1850 | 24000 | 6000 | 85 | 1B |
| | Luxline FHO | T16 | FDH | 849 | 39 | G5 | 3220 | 3500 | 24000 | 2700/3000/4000 | 85 | 1B |
| | Luxline FHO | T16 | FDH | 849 | 39 | G5 | 2990 | 3250 | 24000 | 6000 | 85 | 1B |
| | Luxline FHO | T16 | FDH | 1449 | 49 | G5 | 4165 | 4900 | 24000 | 2700/3000/4000 | 85 | 1B |
| | Luxline FHO | T16 | FDH | 1449 | 49 | G5 | 3950 | 4650 | 24000 | 6000 | 85 | 1B |
| | Luxline FHO | T16 | FDH | 1149 | 54 | G5 | 4150 | 5000 | 24000 | 2700/3000/4000 | 85 | 1B |
| T5 (16mm Ø) Standard Halophosphor |  Standard | T16 | FD | 136 | 4 | G5 | 140 | - | 10000 | 3000/3500 | 53 | 3 |
| | Standard | T16 | FD | 136 | 4 | G5 | 140 | - | 10000 | 4300 | 64 | 2B |
| | Standard | T16 | FD | 136 | 4 | G5 | 115 | - | 10000 | 6500 | 76 | 2A |
| | Standard | T16 | FD | 212 | 6 | G5 | 280 | - | 10000 | 3000/3500 | 53 | 3 |
| | Standard | T16 | FD | 212 | 6 | G5 | 280 | - | 10000 | 4300 | 64 | 2B |
| | Standard | T16 | FD | 212 | 6 | G5 | 240 | - | 10000 | 6500 | 76 | 2A |
| | Standard | T16 | FD | 288 | 8 | G5 | 400 | - | 10000 | 3000/3500 | 53 | 3 |
| | Standard | T16 | FD | 288 | 8 | G5 | 400 | - | 10000 | 4300 | 64 | 2B |
| | Standard | T16 | FD | 288 | 8 | G5 | 340 | - | 10000 | 6500 | 76 | 2A |
| | Standard | T16 | FD | 517 | 13 | G5 | 880 | - | 10000 | 3000/3500 | 53 | 3 |
| | Standard | T16 | FD | 517 | 13 | G5 | 880 | - | 10000 | 4300 | 64 | 2B |
| | Standard | T16 | FD | 517 | 13 | G5 | 750 | - | 10000 | 6500 | 75 | 2A |
| | T5 Circular (16mm Ø) High output Triphosphor |  | T16-R | FSCH | 230Ø | 22 | 2GX13 | 1800 | - | 16000 | 2700/3000/4000/6000 | 85 |
| | | T16-R | FSCH | 305Ø | 40 | 2GX13 | 3200 | - | 16000 | 2700/3000/4000/6000 | 85 | 1B |
| | | T16-R | FSCH | 305Ø | 55 | 2GX13 | 4200 | - | 16000 | 2700/3000/4000/6000 | 85 | 1B |

T8 Fluorescent Lamps

| Title | Sylvania | ZVEI | ILCOS | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (lL) | Max Lumens at 33-37° | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|----------------------------|--|------|-------|-------------|---------------|-----------|---------------------|----------------------|---------------------|-----------------------|--------------------------|
| T8 (26mm Ø) Triphosphor |  Luxline Plus | T26 | FD | 590 | 18 | G13 | 1350 | 20000 | 2700/3000/3500/4000 | 85 | 1B |
| | Luxline Plus | T26 | FD | 590 | 18 | G13 | 1300 | 20000 | 5000/6000 | 85 | 1B |
| | Luxline Plus | T26 | FD | 1200 | 36 | G13 | 3350 | 20000 | 2700/3000/3500/4000 | 85 | 1B |
| | Luxline Plus | T26 | FD | 1200 | 36 | G13 | 3250 | 20000 | 5000/6000 | 85 | 1B |
| | Luxline Plus | T26 | FD | 1500 | 58 | G13 | 5200 | 20000 | 2700/3000/3500/4000 | 85 | 1B |
| | Luxline Plus | T26 | FD | 1500 | 58 | G13 | 5000 | 20000 | 5000/6000 | 85 | 1B |
| | Luxline Plus | T26 | FD | 1764 | 70 | G13 | 6050 | 20000 | 2700/3000/3500/4000 | 85 | 1B |
| | Luxline Plus | T26 | FD | 1764 | 70 | G13 | 5700 | 20000 | 5000/6000 | 85 | 1B |

Lamp Information for luminaires

HID metal halide - Ceramic arc tube















Note: Ceramic Metal halide lamps and Electronic Gear

Lamp warm-up - Ceramic metal halide lamps require approximately 5-12 minutes warm up time to reach full output. Several colour changes are often experienced as part of the warm up process.

Hot Re-strike - Hot lamps must cool down sufficiently until the gear can re-ignite them. Length of time this takes will depend upon the ambient and lamp temperature.















Timed ignition - Gear will shut down to protect itself when lamps are damaged and at end of lamp life. Constant attempts to strike such lamps would result in a reduction in gear life. Once the lamp has been replaced and the gear reset (by switching the unit off at the mains) the gear will operate as normal.

Thermal protection - Gear will shut down to protect itself when high ambient and internal temperatures are reached that would substantially decrease gear life. Such occurrences may occur in areas with poor ventilation or sometimes at the end of lamp life. Once the temperature has reduced to a safe level the gear will automatically re-set itself and operate normally.

| Title | Sylvania | ZVEI | ILCOS | Ømm | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (IL) | Peak Intensity (Cd) | Beam (50%) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|---|--------------|-----------|--------|------|-------------|---------------|-----------|---------------------|---------------------|------------|--------------------------|-------------------|-----------------------|--------------------------|
| Metal halide ceramic capsule   | - | HIT-TC-CE | MT | 14 | 85 | 20 | G8.5 | 1700 | - | - | 6000 | 3000 | 81 | 1B |
| | CMI-TC | HIT-TC-CE | MT | 17 | 85 | 35 | G8.5 | 3750 | - | - | 12000 | 3000 | 87 | 1B |
| | CMI-TC | HIT-TC-CE | MT | 17 | 85 | 70 | G8.5 | 6700 | - | - | 12000 | 3000 | 89 | 1B |
| Metal halide ceramic capsule   | CMI-T | HIT-CE | MT | 20 | 90 | 35 | G12 | 3750 | - | - | 12000 | 3000 | 83 | 1B |
| | CMI-T | HIT-CE | MT | 20 | 90 | 70 | G12 | 6700 | - | - | 12000 | 3000 | 87 | 1B |
| | CMI-T | HIT-CE | MT | 20 | 90 | 70 | G12 | 6700 | - | - | 12000 | 4200 | 93 | 1A |
| | CMI-T | HIT-CE | MT | 20 | 100 | 150 | G12 | 13500 | - | - | 12000 | 3000 | 83 | 1B |
| | CMI-T | HIT-CE | MT | 20 | 100 | 150 | G12 | 13000 | - | - | 12000 | 4200 | 88 | 1A |
| Superia CMI-T | S CMI-T WDL | HIT-CE | MT | 20 | 90 | 35 | G12 | 4000 | - | - | 15000 | 3000 | 91 | 1B |
| | S CMI-T WDL | HIT-CE | MT | 20 | 90 | 70 | G12 | 7300 | - | - | 15000 | 3000 | 90 | 1B |
| | S CMI-T NDL | HIT-CE | MT | 20 | 90 | 35 | G12 | 4200 | - | - | 15000 | 3000 | 92 | 1B |
| | S CMI-T NDL | HIT-CE | MT | 20 | 90 | 70 | G12 | 7300 | - | - | 15000 | 3000 | 96 | 1B |
| | S CMI-T Mini | HIT-CE | MT | 13.3 | 52 | 20 | GU6.5 | 1900 | - | - | 15000 | 3000 | 85 | 1B |
| Metal halide ceramic tubular double ended   | CMI-TD | HIT-DE-CE | MD | 22 | 117.6 | 70 | Rx7s | 6200 | - | - | 9000 | 3000 | 85 | 1B |
| | CMI-TD | HIT-DE-CE | MD | 22 | 117.6 | 70 | Rx7s | 6200 | - | - | 9000 | 4200 | 90 | 1A |
| | CMI-TD | HIT-DE-CE | MD | 25 | 135.4 | 150 | Rx7s-24 | 13500 | - | - | 9000 | 3000 | 85 | 1B |
| Metal halide ceramic tubular   | CMI-TD | HIT-DE-CE | MD | 25 | 135.4 | 150 | Rx7s-24 | 12500 | - | - | 9000 | 4200 | 90 | 1A |
| | S CMI-TT | HIT-CE | MT | 32 | 156 | 70 | E27 | 6300 | - | - | 12000 | 3000 | 83 | 1B |
| | S CMI-TT | HIT-CE | MT | 47 | 211 | 150 | E40 | 13500 | - | - | 7000 | 3000 | 85 | 1B |
| Metal halide ceramic elliptical   | - | HIE-CE | ME | 71 | 156 | 70 | E27 | 5900 | - | - | 12000 | 3000 | 83 | 1B |
| | - | HIE-CE | ME | 91 | 226 | 150 | E40 | 13000 | - | - | 7000 | 3000 | 85 | 1B |
| | - | QT32 | HEGT/W | 32 | 105 | 250 | E27 | 4210 | - | - | 2000 | 2900 | 100 | 1A |
| Metal halide ceramic elliptical   | - | HIT-CE | ME | 54 | 138 | 70 | E27 | 5700 | - | - | 9000 | 3000 | 87 | 1B |
| | - | HIT-CE | ME | 54 | 138 | 70 | E27 | 5600 | - | - | 9000 | 4200 | 90 | 1A |
| | - | HIT-CE | ME | 54 | 141 | 100 | E27 | 8600 | - | - | 9000 | 3000 | 87 | 1B |
| | - | HIT-CE | ME | 54 | 138 | 150 | E27 | 12500 | - | - | 9000 | 3000 | 87 | 1B |
| | - | HIT-CE | ME | 54 | 138 | 150 | E27 | 12500 | - | - | 9000 | 4200 | 90 | 1A |
| Metal halide ceramic reflector   | - | HIPAR20 | MR | 65 | 95 | 35 | E27 | - | 26000 | 10 | 9000 | 3000 | 81 | 1B |
| | - | HIPAR20 | MR | 65 | 95 | 35 | E27 | - | 5000 | 30 | 9000 | 3000 | 81 | 1B |
| | - | HIPAR-L30 | MR | 97 | 125 | 35 | E27 | - | 44000 | 10 | 9000 | 4200 | 81 | 1B |
| | - | HIPAR-L30 | MR | 97 | 125 | 35 | E27 | - | 7400 | 30 | 9000 | 3000 | 81 | 1B |
| | - | HIPAR-L30 | MR | 97 | 125 | 70 | E27 | - | 68000 | 10 | 9000 | 4200 | 83 | 1B |
| - | HIPAR-L30 | MR | 97 | 125 | 70 | E27 | - | 10000 | 40 | 9000 | 4200 | 83 | 1B | |









Lamp Information for luminaires

HID metal halide - Quartz arc tube







| Title | Sylvania | ZVEI | ILCOS | Ømm | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (IL) | Peak Intensity (Cd) | Beam (50%) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|--|---------------------|------------|-------|------|-------------|---------------|-----------|---------------------|---------------------|------------|--------------------------|-------------------|-----------------------|--------------------------|
| Metal halide quartz capsule | HSI-T | HIT-UVr | MT | 26 | 76 | 70 | G12 | 5200 | - | - | 6000 | 3000 | 80 | 1B |
|   | HSI-T | HIT-UVr | MT | 26 | 76 | 70 | G12 | 5200 | - | - | 6000 | 4200 | 80 | 1B |
| | HSI-T | HIT-UVr | MT | 26 | 76 | 150 | G12 | 12000 | - | - | 6000 | 3000 | 80 | 1B |
| | HSI-T | HIT-UVr | MT | 26 | 76 | 150 | G12 | 12500 | - | - | 6000 | 4200 | 80 | 1B |
| Metal halide quartz tubular double ended | HSI-TD | HIT-DE | MD | 22 | 117.6 | 70 | Rx7s | 5500 | - | - | 9000 | 3200 | 80 | 1B |
|   | HSI-TD | HIT-DE | MD | 22 | 117.6 | 70 | Rx7s | 5500 | - | - | 9000 | 4000 | 80 | 1B |
| | HSI-TD | HIT-DE | MD | 25 | 135.4 | 150 | Rx7s-24 | 11250 | - | - | 9000 | 3200 | 80 | 1B |
| | HSI-TD | HIT-DE | MD | 25 | 135.4 | 150 | Rx7s-24 | 11250 | - | - | 9000 | 4200 | 80 | 1B |
| | HSI-TD | HIT-DE | MD | 25 | 135.4 | 150 | Rx7s-24 | 11250 | - | - | 9000 | 5200 | 80 | 1B |
| | HSI-TD | HIT-DE-UVr | MD | 27.5 | 161.6 | 250 | Fc2 | 20000 | - | - | 9000 | 3200 | 80 | 1B |
| | HSI-TD | HIT-DE-UVr | MD | 27.5 | 161.6 | 250 | Fc2 | 20000 | - | - | 9000 | 4200 | 80 | 1B |
| | HSI-TD | HIT-DE-UVr | MD | 27.5 | 161.6 | 250 | Fc2 | 18000 | - | - | 9000 | 5200 | 80 | 1B |
| Metal halide quartz tubular | HSI-TSX | HIT | MT | 48 | 260 | 250 | E40 | 21000 | - | - | 20000 | 4200 | 70 | 1B |
| Britelux  | HSI-TSX | HIT | MT | 63 | 270 | 400 | E40 | 40000 | - | - | 20000 | 4200 | 70 | 1B |
| compatible with HP sodium control gear | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Metal halide quartz elliptical | HSI-SX | HIE | MT | 90 | 227 | 250 | E40 | 23500 | - | - | 20000 | 4100 | 70 | 1B |
| Britelux  | | | | | | | | | | | | | | |
| clear | | | | | | | | | | | | | | |
| compatible with HP sodium control gear | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Metal halide quartz elliptical | HSI-SX CL/P | HIE-P | MT | 90 | 227 | 250 | E40 | 21000 | - | - | 15000 | 4500 | 70 | 1B |
| Britelux  | HSI-SX CL/P | HIE-P | MT | 120 | 290 | 400 | E40 | 4000 | - | - | 15000 | 4300 | 70 | 1B |
| clear/protected | | | | | | | | | | | | | | |
| compatible with HP sodium control gear | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Metal halide quartz elliptical | HSI-SX CO | HIE | MT | 90 | 227 | 250 | E40 | 22300 | - | - | 15000 | 3800 | 70 | 1B |
| Britelux  | | | | | | | | | | | | | | |
| Coated | | | | | | | | | | | | | | |
| compatible with HP sodium control gear | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Metal halide quartz elliptical | HSI-SX CO/P HIE-P/c | | MT | 90 | 227 | 250 | E40 | 20000 | - | - | 15000 | 4200 | 70 | 1B |
| Britelux  | HSI-SX CO/P HIE-P/c | | MT | 120 | 290 | 400 | E40 | 42000 | - | - | 15000 | 4200 | 70 | 1B |
| Coated/protected | | | | | | | | | | | | | | |
| compatible with HP sodium control gear | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |

Lamp Information for luminaires

HID metal halide - Quartz arc tube





| Title | Sylvania | ZVEI | ILCOS | Ømm | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (lL) | Peak Intensity (Cd) | Beam (50%) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) |
|---|----------|----------|-------|-----|-------------|---------------|-----------|---------------------|---------------------|------------|--------------------------|-------------------|-----------------------|--------------------------|
| Metal halide quartz tubular  | HSI-THX | HIT | MT | 48 | 257 | 250 | E40 | 20000 | - | - | 14500 | 4500 | 80 | 1B |
| | HSI-THX | HIT | MT | 63 | 270 | 400 | E40 | 36000 | - | - | 14500 | 4200 | 80 | 1B |
| Clear compatible with HP mercury control gear UV Stop | | | | | | | | | | | | | | |
| Metal halide quartz elliptical  | HSI-HX | HIE | MT | 90 | 227 | 250 | E40 | 23000 | - | - | 14500 | 4500 | 80 | 1B |
| | HSI-HX | HIE | MT | 120 | 290 | 400 | E40 | 37000 | - | - | 14500 | 4500 | 80 | 1B |
| Clear compatible with HP mercury control gear UV Stop | | | | | | | | | | | | | | |
| Metal halide quartz elliptical Britelux HSI-HX  | HSI-HX | HIE | MT | 90 | 227 | 265 | E40 | 22300 | - | - | 14500 | 3800 | 80 | 1B |
| | HSI-HX | HIE | MT | 120 | 290 | 425 | E40 | 40000 | - | - | 14500 | 4200 | 80 | 1B |
| Coated compatible with sodium control gear external ignitor required UV Stop | | | | | | | | | | | | | | |
| Metal halide quartz elliptical  | HSI-HX | HIE | MT | 90 | 227 | 245 | E40 | 21000 | - | - | 14500 | 3800 | 80 | 1B |
| | HSI-HX | HIE | MT | 120 | 290 | 400 | E40 | 35200 | - | - | 14500 | 3800 | 80 | 1B |
| Coated compatible with mercury control gear with internal ignitor UV Stop | | | | | | | | | | | | | | |
| Metal halide quartz elliptical  | HSI-MP | HIE-P | ME | 54 | 138 | 75 | E27 | 5200 | - | - | 15000 | 2900 | 80 | 1B |
| | HSI-MP | HIE-P | ME | 54 | 138 | 75 | E27 | 5500 | - | - | 15000 | 3800 | 80 | 1B |
| | HSI-MP | HIE-P | ME | 54 | 138 | 100 | E27 | 7900 | - | - | 15000 | 2900 | 80 | 1B |
| | HSI-MP | HIE-P | ME | 54 | 138 | 100 | E27 | 8100 | - | - | 15000 | 3800 | 80 | 1B |
| | HSI-MP | HIE-P | ME | 54 | 138 | 150 | E27 | 12500 | - | - | 15000 | 2900 | 80 | 1B |
| | HSI-MP | HIE-P | ME | 54 | 138 | 150 | E27 | 12500 | - | - | 15000 | 3800 | 80 | 1B |
| Metal halide quartz reflector BriteSpot ES50  | ES50 | HIPAR51 | MR | 51 | 62.5 | 20 | GX10 | 3300 | 3500 | 24 | 6000 | 3000 | 85 | 1B |
| | ES50 | HIPAR51 | MR | 51 | 62.5 | 20 | GX10 | 3300 | 2000 | 38 | 6000 | 3000 | 85 | 1B |
| | ES50 | HIPAR51 | MR | 51 | 62.5 | 20 | GX10 | 3300 | 1000 | 60 | 6000 | 3000 | 85 | 1B |
| | ES50 | HIPAR51 | MR | 51 | 62.5 | 35 | GX10 | 3300 | 7000 | 24 | 6000 | 3000 | 90 | 1A |
| | ES50 | HIPAR51 | MR | 51 | 62.5 | 35 | GX10 | 3300 | 4000 | 38 | 6000 | 3000 | 90 | 1A |
| | ES50 | HIPAR51 | MR | 51 | 62.5 | 35 | GX10 | 3300 | 2000 | 60 | 6000 | 3000 | 90 | 1A |
| Metal halide quartz reflector Dichroic BriteSpot ESD50 Coolbeam Universal  | ESD50 | HIPAR51 | MR | 51 | 62.5 | 35 | GX10 | 3300 | 7000 | 24 | 6000 | 3000 | 90 | 1A |
| | ESD50 | HIPAR51 | MR | 51 | 62.5 | 35 | GX10 | 3300 | 4000 | 38 | 6000 | 3000 | 90 | 1A |
| | ESD50 | HIPAR51 | MR | 51 | 62.5 | 35 | GX10 | 3300 | 2000 | 60 | 6000 | 3000 | 90 | 1A |
| | ESD50 | HIPAR51 | MR | 51 | 62.5 | 35 | GX10 | 3300 | 7000 | 24 | 6000 | 3000 | 90 | 1A |
| Metal halide quartz reflector BriteSpot ES111  | ES111 | HIPAR111 | MR | 111 | 75 | 35 | GX10 | 3300 | 4000 | 8 | 6000 | 3000 | 90 | 1A |
| | ES111 | HIPAR111 | MR | 111 | 75 | 35 | GX10 | 3300 | 1000 | 24 | 6000 | 3000 | 90 | 1A |
| | ES111 | HIPAR111 | MR | 111 | 75 | 35 | GX10 | 3300 | 3500 | 45 | 6000 | 3000 | 90 | 1A |
| | ESD111 | HIPAR111 | MR | 111 | 75 | 70 | GX10 | 3300 | 2000 | 24 | 6000 | 3000 | 90 | 1A |
| Metal halide quartz reflector Dichroic BriteSpot ESD111 Coolbeam Universal UV Stop | ESD111 | HIPAR111 | MR | 111 | 75 | 70 | GX10 | 3300 | 7000 | 45 | 6000 | 3000 | 90 | 1A |
| | ESD111 | HIPAR111 | MR | 111 | 75 | 70 | GX10 | 3300 | 7000 | 45 | 6000 | 3000 | 90 | 1A |

HID Sodium

| | | | | | | | | | | | | | | |
|--|--------|---------|-----|-----|-----|------|--------|--------|---|---|-------|------|----|----|
| High pressure sodium ceramic capsule SDW-TG  | - | HST-CRI | STH | 20 | 96 | 100 | GX12 | 4800 | - | - | 5000 | 2550 | 83 | 1B |
| High pressure sodium ceramic capsule SDW-T  | - | HST-CRI | STH | 32 | 149 | 100 | PG12-1 | 5000 | - | - | 5000 | 2500 | 83 | 1B |
| High pressure sodium tubular SON-T  | SHP-T | HST | ST | 39 | 156 | 50 | E27 | 3771 | - | - | 24000 | 2050 | 20 | 4 |
| | SHP-T | HST | ST | 39 | 156 | 70 | E27 | 5885 | - | - | 24000 | 2050 | 20 | 4 |
| | SHP-T | HST | ST | 48 | 211 | 100 | E40 | 10000 | - | - | 24000 | 2500 | 20 | 4 |
| | SHP-T | HST | ST | 48 | 211 | 150 | E40 | 17000 | - | - | 24000 | 2050 | 20 | 4 |
| | SHP-T | HST | ST | 48 | 260 | 250 | E40 | 33000 | - | - | 24000 | 2050 | 20 | 4 |
| | SHP-T | HST | ST | 48 | 292 | 400 | E40 | 45000 | - | - | 24000 | 2050 | 20 | 4 |
| | SHP-T | HST | ST | 68 | 400 | 1000 | E40 | 130000 | - | - | 24000 | 2050 | 20 | 4 |
| High pressure sodium tubular mercury free  | SHP-TS | HST-MF | ST | 39 | 156 | 50 | E27 | 3947 | - | - | 24000 | 2050 | 23 | 4 |
| | SHP-TS | HST-MF | ST | 39 | 156 | 70 | E27 | 6521 | - | - | 30000 | 2050 | 23 | 4 |
| | SHP-TS | HST-MF | ST | 48 | 211 | 100 | E40 | 10622 | - | - | 30000 | 2050 | 23 | 4 |
| | SHP-TS | HST-MF | ST | 48 | 211 | 150 | E40 | 17143 | - | - | 32000 | 2050 | 23 | 4 |
| | SHP-TS | HST-MF | ST | 48 | 260 | 250 | E40 | 32581 | - | - | 32000 | 2050 | 25 | 4 |
| | SHP-TS | HST-MF | ST | 48 | 292 | 400 | E40 | 54326 | - | - | 32000 | 2050 | 25 | 4 |
| High pressure sodium elliptical with internal ignitor  | - | HSE-I | SE | 72 | 165 | 50 | E27 | 3500 | - | - | 15500 | 2050 | 23 | 4 |
| | - | HSE-I | SE | 72 | 165 | 70 | E27 | 5600 | - | - | 15500 | 2050 | 23 | 4 |
| High efficacy SON requires external ignitor  | SHP-S | HSE-E | SE | 72 | 165 | 50 | E27 | 3600 | - | - | 23000 | 2050 | 23 | 4 |
| | SHP-S | HSE-E | SE | 72 | 165 | 70 | E27 | 6800 | - | - | 23000 | 2050 | 23 | 4 |
| | SHP-S | HSE-E | SE | 91 | 227 | 250 | E40 | 30189 | - | - | 32000 | 2050 | 23 | 4 |
| | SHP-S | HSE-E | SE | 122 | 292 | 400 | E40 | 53567 | - | - | 32000 | 2050 | 23 | 4 |

Lamp Information for luminaires

HID Mercury

| Title | Sylvania | ZVEI | ILCOS | Ømm | Length (mm) | Watts Nominal | Cap/ Base | Initial Lumens (lL) | Peak Intensity (Cd) | Beam (50%) | Average Rated Life (Hrs) | Colour Temp. (°K) | Colour Rendering (Ra) | Colour Rendering (Group) | |
|--|---|--------|---------|-----|-------------|---------------|-----------|---------------------|---------------------|------------|--------------------------|-------------------|-----------------------|--------------------------|----|
| High pressure mercury quartz elliptical comfort |  | HSL-SC | HME | QE | 56 | 130 | 50 | E27 | 2000 | - | - | 29000 | 3400 | 60 | 2B |
| | | HSL-SC | HME | QE | 71 | 166 | 80 | E27 | 4000 | - | - | 29000 | 3400 | 60 | 2B |
| MBF/U comfort/super de luxe | | HSL-SC | HME | QE | 76 | 178 | 125 | E27 | 6500 | - | - | 29000 | 3400 | 60 | 2B |
| High pressure mercury quartz elliptical |  | HSL-BW | HME | QE | 56 | 130 | 50 | E27 | 1800 | - | - | 29000 | 4000 | 42 | 3 |
| HSL-BW | | HSL-BW | HME | QE | 71 | 166 | 80 | E27 | 3800 | - | - | 29000 | 4000 | 42 | 3 |
| | | HSL-BW | HME | QE | 76 | 178 | 125 | E27 | 6300 | - | - | 29000 | 4000 | 42 | 3 |
| | | HSL-BW | HME | QE | 91 | 228 | 250 | E40 | 13000 | - | - | 29000 | 4000 | 42 | 3 |
| | | HSL-BW | HME | QE | 122 | 292 | 400 | E40 | 22000 | - | - | 29000 | 3800 | 42 | 3 |
| | | HSL-BW | HME | QE | 152 | 357 | 700 | E40 | 40000 | - | - | 29000 | 4000 | 42 | 3 |
| | | HSL-BW | HME | QE | 167 | 411 | 1000 | E40 | 58000 | - | - | 29000 | 4000 | 42 | 3 |
| High pressure mercury quartz self-ballasted elliptical |  | HSB-BW | HME-SB | QB | 76 | 178 | 160 | E27 | 3100 | - | - | 16000 | 3500 | 42 | 3 |
| HSL-BW | | HSB-BW | HME-SB | QB | 91 | 233 | 250 | E27 | 5600 | - | - | 16000 | 3500 | 42 | 3 |
| 230V | | HSB-BW | HME-SB | QB | 122 | 292 | 500 | E40 | 14000 | - | - | 16000 | 3500 | 42 | 3 |
| | | HSB-BW | HME-SB | QB | 76 | 178 | 160 | E27 | 3100 | - | - | 16000 | 3500 | 42 | 3 |
| | | HSB-BW | HME-SB | QB | 76 | 178 | 160 | B22d | 3100 | - | - | 16000 | 3500 | 42 | 3 |
| | | HSB-BW | HME-SB | QB | 91 | 228 | 250 | E40 | 5600 | - | - | 16000 | 3500 | 42 | 3 |
| 240V | | HSB-BW | HME-SB | QB | 122 | 292 | 500 | E40 | 14000 | - | - | 16000 | 3500 | 42 | 3 |
| Low pressure mercury induction elliptical |  | - | LMG-IHF | FSG | 111 | 181 | 85 | - | 6000 | - | - | 60000 | 2700/3000 /4000 | 80 | 1B |
| QL | | - | LMG-IHF | FSG | 131 | 210 | 165 | - | 12000 | - | - | 60000 | 2700/3000 /4000 | 80 | 1B |

Calculation Data Total Lamp Lumen / Circuit Power

Initial lumens are based on 100-hour measurements. Efficacy is calculated by dividing the 100-hour lumen output by the rated lamp power. Control gear losses are not taken into account. E.g. 13w TC-D 900 ÷ 13 = 69 lm/w. For reflector lamps efficacy PAR lamps, use the equivalent rated non-reflector variant e.g. PAR 38 100w use A 60 (GLS) 100w, PAR 30 75w use QT32 75w and CDM-R 35w use CMI/CDM-TC 35w. Circuit power is shown for both magnetic (Cu/fe) and electronic ballasts (HF) where applicable - circuit watts for magnetic ballasts are shown in brackets. Data sources; CELMA, GE, Osram, Philips and Sylvania.

Tungsten Lamps

| | | | | | | | | |
|-------------------------|-----|-----|-----|-----|------|------|------|------|
| A (GLS) | 25w | 40w | 60w | 75w | 100w | 150w | 200w | 300w |
| Total Lamp Lumens (lL) | 225 | 410 | 700 | 915 | 1330 | 2150 | 3080 | 4550 |
| Total Circuit Power (W) | 25 | 40 | 60 | 75 | 100 | 150 | 200 | 300 |
| Efficacy (lm/W) | 9 | 10 | 12 | 12 | 13 | 14 | 15 | 15 |

Tungsten Halogen Lamps - 240 volts

| | | | | | | | | | |
|-------------------------|------|------|------|------|------|-------|-------|-------|-------|
| G9 (satin) | 40w | 60w | | | | | | | |
| Total Lamp Lumens (lL) | 460 | 790 | | | | | | | |
| Total Circuit Power (W) | 40 | 60 | | | | | | | |
| Efficacy (lm/W) | 12 | 13 | | | | | | | |
| QT18 (clear) | 75w | 100w | 150w | 250w | | | | | |
| Total Lamp Lumens (lL) | 1100 | 1500 | 2500 | 4350 | | | | | |
| Total Circuit Power (W) | 75 | 100 | 150 | 250 | | | | | |
| Efficacy (lm/W) | 15 | 15 | 17 | 17 | | | | | |
| QT32 (clear) | 75w | 100w | 150w | 250w | | | | | |
| Total Lamp Lumens (lL) | 1100 | 1500 | 2500 | 4350 | | | | | |
| Total Circuit Power (W) | 75 | 100 | 150 | 250 | | | | | |
| Efficacy (lm/W) | 15 | 15 | 17 | 17 | | | | | |
| QT-DE12 | 100w | 150w | 200w | 300w | 500w | 750w | 1000w | 1500w | 2000w |
| Total Lamp Lumens (lL) | 1600 | 2600 | 3000 | 5000 | 9500 | 15000 | 22000 | 33000 | 44000 |
| Total Circuit Power (W) | 100 | 150 | 200 | 300 | 500 | 750 | 1000 | 1500 | 2000 |
| Efficacy (lm/W) | 16 | 17 | 16 | 17 | 19 | 20 | 22 | 22 | 22 |

Tungsten Halogen Lamps - 12 volts

| | | | | | | | | | |
|-------------------------|-----|-----|-----|------|------|------|--|--|--|
| QT9 (LV) | 5w | 10w | 20w | | | | | | |
| Total Lamp Lumens (lL) | 60 | 140 | 350 | | | | | | |
| Total Circuit Power (W) | 5 | 10 | 20 | | | | | | |
| Efficacy (lm/W) | 12 | 14 | 18 | | | | | | |
| QT12 (LV) | 20w | 35w | 50w | 75w | 100w | 175w | | | |
| Total Lamp Lumens (lL) | 300 | 600 | 950 | 1575 | 2200 | 4900 | | | |
| Total Circuit Power (W) | 20 | 35 | 50 | 75 | 100 | 175 | | | |
| Efficacy (lm/W) | 15 | 17 | 19 | 21 | 22 | 28 | | | |

Compact Fluorescent Lamps

| | | | | | | | | |
|-------------------------|--------|--------|--------|--------|------|------|--|--|
| TC-DD (2D) | 16w | 28w | 38w | 55w | | | | |
| Total Lamp Lumens (lL) | 1050 | 2250 | 3000 | 3900 | | | | |
| Total Circuit Power (W) | 17(23) | 29(36) | 38(45) | 61 | | | | |
| Efficacy (lm/W) | 66 | 80 | 79 | 71 | | | | |
| TC-S/SEL | 5w | 7w | 9w | 11w | | | | |
| Total Lamp Lumens (lL) | 250 | 400 | 600 | 900 | | | | |
| Total Circuit Power (W) | 7(12) | 9(14) | 11(16) | 14(18) | | | | |
| Efficacy (lm/W) | 50 | 57 | 67 | 82 | | | | |
| TC-D/DEL | 10w | 13w | 18w | 26w | | | | |
| Total Lamp Lumens (lL) | 600 | 900 | 1200 | 1800 | | | | |
| Total Circuit Power (W) | 11(16) | 14(19) | 19(26) | 27(34) | | | | |
| Efficacy (lm/W) | 60 | 69 | 67 | 69 | | | | |
| TC-T | 13w | 18w | 26w | 32w | 42w | 57w | | |
| Total Lamp Lumens (lL) | 900 | 1200 | 1800 | 2400 | 3200 | 4300 | | |
| Total Circuit Power (W) | 14(19) | 19(26) | 27(34) | 36 | 47 | 63 | | |
| Efficacy (lm/W) | 69 | 67 | 69 | 75 | 76 | 75 | | |
| TC-L | 18w | 24w | 36w | 40w | 55w | | | |
| Total Lamp Lumens (lL) | 1200 | 1800 | 2900 | 3500 | 4800 | | | |
| Total Circuit Power (W) | 19(26) | 25(32) | 36(43) | 45 | 61 | | | |
| Efficacy (lm/W) | 67 | 75 | 81 | 88 | 87 | | | |
| TC-F | 18w | 24w | 36w | | | | | |
| Total Lamp Lumens (lL) | 1100 | 1700 | 2800 | | | | | |
| Total Circuit Power (W) | 19(26) | 25(32) | 36(43) | | | | | |
| Efficacy (lm/W) | 61 | 71 | 78 | | | | | |
| T5 Circular Lamps | 22w | 40w | 55w | | | | | |
| Total Lamp Lumens (lL) | 1800 | 3200 | 4200 | | | | | |
| Total Circuit Power (W) | 26 | 45 | 61 | | | | | |
| Efficacy (lm/W) | 82 | 80 | 82 | | | | | |

Calculation Data Total Lamp Lumen / Circuit Power

Compact Fluorescent Lamps (Integral HF electronic gear)

| | | | | |
|-------------------------|-----|------|------|------|
| Mini Lynx 2 limb | 7w | 11w | 15w | 20w |
| Total Lamp Lumens (lL) | 400 | 600 | 900 | 1250 |
| Total Circuit Power (W) | 7 | 11 | 15 | 20 |
| Efficacy (lm/W) | 57 | 55 | 60 | 63 |
| Mini-Lynx 3 limb | 15w | 20w | 23w | |
| Total Lamp Lumens (lL) | 900 | 1250 | 1500 | |
| Total Circuit Power (W) | 15 | 20 | 23 | |
| Efficacy (lm/W) | 60 | 63 | 65 | |
| Micro-Lynx F | 7w | | | |
| Total Lamp Lumens (lL) | 220 | | | |
| Total Circuit Power (W) | 7 | | | |

Linear Fluorescent Lamps

| | | | | | |
|-------------------------------|-------|-------|--------|--------|------|
| T5 Triphosphor (HE/FH) | 14w | 21w | 28w | 35w | |
| Total Lamp Lumens (lL) | 1350 | 2100 | 2900 | 3650 | |
| Total Circuit Power (W) | 17 | 24 | 32 | 39 | |
| Efficacy (lm/W) | 96 | 100 | 104 | 104 | |
| T5 Triphosphor (HO/FO) | 24w | 39w | 49w | 54w | 80w |
| Total Lamp Lumens (lL) | 2000 | 3500 | 4900 | 5000 | 6130 |
| Total Circuit Power (W) | 26 | 43 | 55 | 60 | 88 |
| Efficacy (lm/W) | 83 | 90 | 100 | 93 | 77 |
| T5 Halophosphor | 4w | 6w | 8w | 13w | |
| Total Lamp Lumens (lL) | 140 | 280 | 400 | 880 | |
| Total Circuit Power (W) | 6(11) | 8(13) | 11(15) | 15(19) | |
| Efficacy (lm/W) | 35 | 47 | 50 | 68 | |

Calculation Data Total Lamp Lumen / Circuit Power

High Intensity Discharge (HID) lamps

| | | | | | | |
|----------------------------------|--------|----------|----------|-------|-------|-------|
| MG-IHF (QL) | 85w | 165w | | | | |
| Total Lamp Lumens (IL) | 6000 | 12000 | | | | |
| Total Circuit Power (W) | 85 | 165 | | | | |
| Efficacy (lm/W) | 71 | 73 | | | | |
| CMi-TC/HIT-TC-CE (CDM-TC) | 20w | 35w | 70w | | | |
| Total Lamp Lumens (IL) | 1650 | 3400 | 6200 | | | |
| Total Circuit Power (W) | 24 | 45(47) | 80(82) | | | |
| Efficacy (lm/W) | 83 | 97 | 89 | | | |
| CMi-TC/HIT-CE (CDM-TC) | 35w | 70w | 150w | | | |
| Total Lamp Lumens (IL) | 3400 | 6200 | 13500 | | | |
| Total Circuit Power (W) | 45(47) | 80(82) | 162(170) | | | |
| Efficacy (lm/W) | 97 | 89 | 90 | | | |
| HIT-CE (CDM-TT) | 70w | 150w | | | | |
| Total Lamp Lumens (IL) | 6300 | 13500 | | | | |
| Total Circuit Power (W) | 80(82) | 162(170) | | | | |
| Efficacy (lm/W) | 90 | 90 | | | | |
| HIE-CE (CDM-ET) | 70w | 150w | | | | |
| Total Lamp Lumens (IL) | 5900 | 13000 | | | | |
| Total Circuit Power (W) | 80(82) | 162(170) | | | | |
| Efficacy (lm/W) | 84 | 87 | | | | |
| CMi-TD/HIT-DE-CE (CDM-TD) | 70w | 150w | | | | |
| Total Lamp Lumens (IL) | 6200 | 13000 | | | | |
| Total Circuit Power (W) | 80(82) | 162(170) | | | | |
| Efficacy (lm/W) | 89 | 87 | | | | |
| HSI-T/HIT-UVr (HQI-T) | 35w | 70w | 150w | 250w | 400w | |
| Total Lamp Lumens (IL) | 2400 | 5200 | 12000 | 21000 | 40000 | |
| Total Circuit Power (W) | 45(47) | 80(82) | 162(170) | 284 | 430 | |
| Efficacy (lm/W) | 69 | 74 | 80 | 84 | 100 | |
| HSI-TD/HIT-DE (HQI-TS) | 70w | 100w | 150w | 250w | 400w | |
| Total Lamp Lumens (IL) | 5500 | 8400 | 13000 | 20000 | 32000 | |
| Total Circuit Power (W) | 80(82) | (114) | 162(170) | (284) | (430) | |
| Efficacy (lm/W) | 79 | 84 | 87 | 80 | 80 | |
| HSI-MP/HIE-P (Metalarc) | 75w | 100w | 150w | | | |
| Total Lamp Lumens (IL) | 5200 | 7900 | 12500 | | | |
| Total Circuit Power (W) | (97) | (114) | (170) | | | |
| Efficacy (lm/W) | 69 | 79 | 83 | | | |
| HSI-CRI (SDW-TG) | 70w | | | | | |
| Total Lamp Lumens (IL) | 4800 | | | | | |
| Total Circuit Power (W) | 115 | | | | | |
| Efficacy (lm/W) | 48 | | | | | |
| HSI-CRI (SDW-T) | 100w | | | | | |
| Total Lamp Lumens (IL) | 5000 | | | | | |
| Total Circuit Power (W) | 115 | | | | | |
| Efficacy (lm/W) | 50 | | | | | |
| SHP-TS/HST-MF (SON-T) | 50w | 70w | 100w | 150w | 250w | 400w |
| Total Lamp Lumens (IL) | 4400 | 6000 | 10000 | 14500 | 28000 | 48000 |
| Total Circuit Power (W) | (62) | (82) | (114) | (170) | (284) | (434) |
| Efficacy (lm/W) | 88 | 86 | 100 | 97 | 112 | 120 |
| SHP-S/HSE-I/E (SON) | 50w | 70w | | | | |
| Total Lamp Lumens (IL) | 3300 | 5800 | | | | |
| Total Circuit Power (W) | (62) | (82) | | | | |
| Efficacy (lm/W) | 66 | 83 | | | | |
| HST-DE (NAV-TS) | 70w | 150w | | | | |
| Total Lamp Lumens (IL) | 6800 | 15000 | | | | |
| Total Circuit Power (W) | (82) | (170) | | | | |
| Efficacy (lm/W) | 97 | 100 | | | | |
| HSL-SC/HME (MBF/U) | 50w | 80w | 125w | 250w | 400w | |
| Total Lamp Lumens (IL) | 2000 | 4000 | 6500 | 13000 | 22000 | |
| Total Circuit Power (W) | 59 | (91) | (137) | (270) | (420) | |
| Efficacy (lm/W) | 40 | 50 | 52 | 52 | 55 | |

Standard Terms And Conditions Of Sale

DEFINITIONS

The following definitions shall apply to these terms and conditions:

| | |
|-------------------------|--|
| “Business Day” | means a day other than a Saturday, Sunday or public holiday in England; |
| “Buyer” | means the party purchasing goods from the Seller; |
| “Buyer Specification” | any specification for the Products, including any related plans and drawings, that is supplied to the Seller by the Buyer, or produced by the Seller and agreed in writing by the Buyer; |
| “Contract” | means the contract between the Seller and the Buyer for the sale and purchase of the Products in accordance with these Terms; |
| “Force Majeure Event” | has the meaning given in clause 8; |
| “Order” | means Buyer’s order for the Products, as set out in the Buyer’s Purchase Order Form. The procedure for placing orders is outlined in clause 2.4. |
| “Products” | means the goods purchased by Buyer from the Seller in accordance with these Terms; |
| “Product Specification” | means the specification relating to Products provided by Seller; |
| “Seller” | means Havells Sylvania Europe Limited; |
| “Terms” | the terms and conditions set out in this document. |

In these Terms, the following rules apply:

A person includes a natural person, corporate or unincorporated body (whether or not having separate legal personality);

A reference to a party includes its personal representatives, successors or permitted assigns;

A reference to a statute or statutory provision is a reference to such statute or provision as amended or re-enacted. A reference to a statute or statutory provision includes any subordinate legislation made under that statute or statutory provision, as amended or re-enacted;

Any phrase introduced by the terms including, include, in particular or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.

A reference to writing or written includes faxes.

CONTRACT FORMATION

In the absence of a written agreement to the contrary executed by Seller, these Terms shall apply to every sale of Products between Seller and Buyer.

A quotation by Seller does not constitute an offer and Seller reserves the right to withdraw or revise any quotation prior to time of its acceptance of Buyer’s purchase order.

An Order constitutes an offer by Buyer to purchase the Products in accordance with these Terms. The contract shall be formed at the time when Buyer’s Order is confirmed in writing or by action by Seller, at which point the Contract shall come into existence

Orders can be placed with our Sales Office by completing a Purchase Order Form and can be sent via fax, EDI (Electronic Data Information) or COMNET (Havells Sylvania’s Internet Portal). Orders must be confirmed by us in writing.

Any terms and conditions proposed by Buyer or contained in any Order, Buyer Specification or other document sent by Buyer are expressly rejected by Seller and waived by Buyer.

These Terms apply to the purchase of Products to the exclusion of any other terms that Buyer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

The Contract constitutes the entire agreement between the parties. Buyer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of Seller which is not set out in the Contract, save that nothing in this clause shall exclude liability for fraudulent misrepresentation.

Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by Seller shall be subject to correction without any liability on the part of the Seller.

PRODUCT SPECIFICATIONS

Seller reserves the right to make any changes to the Product Specification, that is required to conform with any applicable statutory or EU requirements.

Unless otherwise specifically agreed to in writing by the Seller, all descriptive and forwarding specifications, drawings and particulars of weight and dimension issued by Seller are approximate only and are intended to present a general idea of the Products to which they refer and shall not form any part of any contract.

PRICE

The price for Products shall be the price quoted by Seller to Buyer or, when no price is quoted, the Seller’s list price at date of delivery, unless otherwise agreed in writing by the parties.

All costs associated with and/or arising out of implementation of the WEEE Directive on electrical or electronic waste into national law shall be charged to the Buyer separately.

The price of the Products is exclusive of amounts in respect of value added tax (“VAT”) Any other tax, tariff, duty or charge which Seller may be required to pay or collect, now or hereafter imposed by any governmental authority or agency, foreign or domestic, with respect to the sale, purchase, production, processing, storage, delivery, transportation, use, or consumption of any of the products or services covered hereby, including all taxes upon or measured by receipts from sales or services will be charged to the Buyer by the Seller.

DELIVERY AND SHORTFALL

Delivery shall be made on Ex-Works (Incoterms 2010) basis unless otherwise agreed in writing. Should the Seller agree to deliver Product otherwise than at Seller’s premises, Buyer shall be liable to pay Seller’s charges for transport, packaging and insurance.

Where the Product is to be delivered in instalments, each delivery shall constitute a separate Contract which shall be invoiced and paid for separately. If Seller fails to deliver the Products, its liability shall be limited to the costs and expenses incurred by Buyer in obtaining replacement goods of similar description and quality less the price of the Products.

If Buyer fails to fulfil terms of purchase under this contract including failure to make payment on the due date, Seller may defer further shipments without notice until the breach is remedied, or reserve the right to cancel such shipments if the breach is not cured.

No claim in respect of loss in transit or short delivery will be accepted unless the Seller is advised in writing of such loss or short delivery at the time of delivery. The shortfall must be specified in writing on the Purchase Order Form.

The following details must be stated on the form:

- Conditions of packages
- Date consignment received
- Date Seller was advised
- The extent of damage or shortfall.

PASSING OF RISK AND TITLE

All risk in the Products shall pass to Buyer upon completion of delivery.

Not with standing delivery and the passing of risk in the Product, all title in and to the Products shall not pass to Buyer until payment for has been received by Seller in full (in cash or cleared funds)

Standard Terms And Conditions Of Sale

Until such time as title in the Products passes to Buyer, the Buyer shall:

not be entitled to pledge or in any way charge or otherwise encumber by way of security for any indebtedness any of Product;

hold Product as Seller's fiduciary agent and bailee;

not remove, deface or obscure any identifying mark or packaging on or relating to the Products;

keep the Product separate from those of Buyer and third parties and properly stored, protected and insured and identified as Seller's property;

notify Seller immediately if it becomes subject to any of the events set out in clause 12;

provide Seller with such information relating to the Products as Seller may require from time to time,

For the avoidance of doubt, nothing in this clause 6.3 shall operate to prevent Buyer from reselling or using the Products in the ordinary course of its business.

Buyer shall bear the risk of any loss or damage to or deterioration of the Products from whatever cause arising following delivery of the Products to Buyer.

If before title to the Products passes to Buyer, Buyer becomes subject to any of the events set out in clause 12, or Seller reasonably believes that any such event is about to happen and notifies Buyer accordingly, then, provided that the Products have not been resold, or irrevocably incorporated into another product, and without limiting any other right or remedy, Seller may at any time require Buyer to deliver the Product back to Seller.

PAYMENT

Buyer shall pay all invoices in full and in cleared funds without any setoff or deduction, within the payment term specified on the invoice and in the currency specified in the invoice, free of exchange collection, or other charges.

If Buyer fails to pay any invoice in full by the due date under the Contract, Seller may suspend production and/or decline to make shipment or delivery of all or part of the unshipped Product. In addition, the Buyer shall pay interest on the overdue amount at the applicable rate in accordance with the Late Payment of Commercial Debts (Interest) Act 1998. Such interest shall accrue on a daily basis from the due date until the date of actual payment of the overdue amount, whether before or after judgment. The Buyer shall pay the interest together with the overdue amount.

Buyer shall not be entitled to assert any credit, set-off or counterclaim against Seller in order to justify withholding payment of any such amount in whole or in part. Seller may at any time, without limiting any other rights or remedies it may have, set off any amount owing to it by Buyer against any amount payable by the Seller to the Buyer.

FORCE MAJEURE

Seller shall not be liable for any failure to perform or delay in performance due to circumstances beyond Seller's reasonable control, including but not limited to riot, war or hostilities between nations, civil war, civil commotion, acts of terrorism, governmental orders or regulations, import or export regulations or embargoes, acts of God, fire, accidents, strikes, lock-outs, or other industrial actions or trade disputes (whether involving employees of the Seller or of a supplier), lack of transportation facilities, delays of carriers, inability to obtain raw materials, curtailment of or failure in obtaining sufficient electrical power, or any other contingencies beyond the reasonable control of Seller ("Force Majeure Event"). In the case of a Force Majeure Event, Seller may, in its sole discretion, cancel, reduce or modify its deliveries to Buyer without liability for any damages whatsoever.

WARRANTY; CLAIMS; LIMITATION OF LIABILITY.

Subject to the conditions set out below, Seller warrants that on delivery and for a period of 24 months from the date of delivery, the Products shall:

correspond to the Product Specifications agreed to in writing by Seller; and be free from defects in design, material and workmanship, unless otherwise indicated by Seller in the product specification or elsewhere.

Subject to clause 9.3 if: Buyer gives notice in writing to Seller during the warranty period set out in clause 9.1 above and within a reasonable time of discovery that some or all of the Products do not comply with the warranty set out in clause 9.1;

Seller is given a reasonable opportunity of examining such Products;

Buyer (if asked to do so by Seller) returns such Products to Seller's place of business at Buyer's cost,

Where we consider that the Product is covered by this warranty, we will repair and/or replace ONLY the defective lamp(s) within a reasonable period of time. Further warranty is excluded unless compulsory required by law. For the avoidance of doubt, "repair or replace the defective lamps" does not include any removal or reinstallation activities, costs or expenses, including without limitation, labor costs or expenses.

Seller shall be under no liability in respect of any defect in the Products arising from: any drawing, design or any Buyer Specification supplied by Buyer; Buyer making any further use of the Products after giving notice in accordance with clause 9.2;

normal wear and tear, wilful damage, negligence, abnormal storage or working conditions, improper handling, third party interference (e.g. improper installation, overuse, excess voltage or frequency oscillations);

failure to follow Seller's instructions (whether oral or in writing) as to the storage, commissioning, installation, use and maintenance of the Products or (if there are none) good trade practice;

misuse, alteration or repair of the Products without the Seller's approval.

For the avoidance of doubt, the above warranty does not extend to parts, materials or equipment not manufactured by Seller, in respect of which Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given to Seller by the third party manufacturer

Except as set out in these Terms, all warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

These Terms shall also apply to any repaired or replacement Products supplied by Seller. Nothing in these Terms shall limit or exclude Seller's liability for:

death or personal injury caused by its negligence; or fraud or fraudulent misrepresentation.

Subject to clause 9.6, Seller shall not be liable to Buyer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit or indirect or consequential loss or damages arising under or in connection with the Contract.

PATENTS

Between the Buyer and the Seller, all Intellectual Property Rights and all other rights in the Deliverables and materials shall be owned by the Seller. Where necessary, the Seller licenses all such rights limited to the Buyer free of charge and on a non-exclusive, royalty free rights of the IP to the extent as is necessary to enable the Buyer to make reasonable use of the Deliverables and the Services.

Should Products sold by Seller be the subject to a claim for patent infringement, Seller may, at its sole option and expense, either procure for Buyer the right to continue using said Product, or modify same so that it becomes non-infringing, or replace it with non-infringing Product, or remove the Product and refund the purchase price paid by Buyer.

Buyer agrees to defend and indemnify Seller from and against any liability for or on account of any infringement or alleged infringement of any patented or unpatented inventions or trade secret with respect to (i) any use of Products by Buyer or their customers, including without limitation use of Products alone or in combination with other components or (ii) Products furnished, or methods used by Seller, in accordance with specifications or instructions furnished by or expressly or implicitly prescribed by Buyer.

DESIGN OWNERSHIP

Any specifications, drawings, or other technical information, data, tools, dyes, patterns, masks, test equipment, software and any other item designed, supplied, or created by Seller in performance of Buyer's order, (the "Creative Elements" shall remain the exclusive property of Seller, and no right, title or license in any such item or design is hereby granted to Buyer and Buyer is prohibited from copying or using the Creative Elements without Seller's prior written consent.

INSOLVENCY

Either party shall have the right to cancel any order in the event that the other party is insolvent (or as applicable, bankrupt) according to the law, or has made any arrangements with its creditors or under the law with a view to avoiding an impending insolvency (or as applicable, bankruptcy), or has had any person appointed by its creditors or under law as a consequence of debts which have fallen, or which are about to fall, due and which the relevant party is unable to properly repay.

PRIVACY POLICY

The Customer acknowledges and agrees that details of the Customer's name, address and payment record may be submitted to a credit reference agency, and personal data will be processed by and on behalf of the Seller in connection with the Services. Information may also be used for marketing activity and will be held on our customer database.

Havells Sylvania endeavours to respect the confidentiality of any personal data provided and to use them in line with the UK Data Protection Act 1998. This policy also applies to the above mentioned credit reference agencies Havells Sylvania works with. For further information please consult our privacy policy which is accessible on our company website www.havells-sylvania.com or upon request a copy will be provided.

ASSIGNMENT AND SUBCONTRACTING

Seller may at any time assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract. This includes an assignment of the Contract or parts of it made under these Terms at any time to an affiliate its right to receive payment;

Buyer may not assign any of its rights or obligations hereunder without the previous written consent of Seller, which will not be unreasonably withheld.

GOVERNING LAW AND JURISDICTION

The Contract, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with, English law, and the parties irrevocably submit to the exclusive jurisdiction of the courts of England and Wales.

MISCELLANEOUS

No waiver by Seller of any breach of the contract by Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

If any provision of these Terms is held by any competent authority to be invalid or unenforceable in whole or in part, the validity of the other provisions of these Terms and the remainder of the provision in question shall not be affected.

No variation to this Contract shall be valid unless agreed to in writing and signed by an authorized representative of Seller and Buyer.

16.4 The Seller may, from time to time and without notice, change the Products in order to comply with any applicable safety or statutory requirements, provided that such changes do not materially affect the nature, scope of, or the charges for the Products. If the Seller requests a change to the scope of the Products for any other reason, the Customer shall not unreasonably withhold or delay consent to it.

EXCLUSION OF THIRD PARTY RIGHTS

The Contracts (Rights of Third Parties) Act 1999 shall not apply to these Terms nor any contract made under them and no person other than Buyer and Seller shall have any rights there under, nor shall any such contract or these Terms be enforceable under that Act by any other person.

Specifications

The following notes prepared to meet the company's obligations imposed by the Health & Safety at Work Act 1974 (Amended 1988) are of a general nature only. Specific information regarding installation use and disposal appropriate to individual models is provided in the instruction leaflet packed with the product, or can be found on the relevant pages of this catalogue.

The Health & Safety at Work Act 1974 imposes upon the users of the company's products an obligation to ensure that all personnel involved in the installation, handling, use or disposal of these products are acquainted with the information provided by the Company and are made fully aware of any precautions that need to be taken.

The installation of these products should only be carried out by a qualified contractor in accordance with the instructions supplied with the product.

Specifications

Leadership in design is based on constant development and improvement. Whilst great care is taken to give up-to-date information in this publication, the right is reserved to change any specifications herein detailed, without prior notice. All descriptions, illustrations etc, in this publication shall not form part of any contract.

Track and Spotlights

All track and spotlights are designed for normal, dry interiors, and are not recommended for use in damp or corrosive situations. Adequate ventilation will be necessary when tungsten spotlights are used in confined spaces where elevated temperatures will occur.

Lamps

Wattage and where applicable type of lamp are shown for every fitting. Incorrect lamps may affect efficiency, change the planned distribution, create glare and in some cases, seriously overheat the luminaire. Unless otherwise stated all luminaires are supplied without lamps.

Wiring

The majority of luminaires are fully prewired and with heat resistant cable wherever required.

Weights

Where given, the weights of luminaires do not include lamps.

Transformer & Control Gear

Transformers and Control Gear are available for 240V 50HZ and 230V 50HZ with other options subject to special quotation.

240V 50HZ will be supplied unless any other voltage is requested at the time of ordering.

Ceiling Cut-outs

Throughout this publication cut-out sizes refer to the aperture for the ceiling ring with recessed fittings when mounted in soft fibrous tiles. For timber or metal tiles and cast-in construction, check dimensions on site.

Product colours and finishes

The Havells-Sylvania range of standard colours has been rationalised. This change situation has provided Havells-Sylvania with the opportunity to harmonise our standard colours in line with developments that have taken place in architectural materials and building accessories.

For reference the standard paint finishes are now:

Concord luminaire

RAL 9005 Jet Black Black
RAL 9006 White Aluminium Silver
RAL 9010 Pure White White
RAL 9016 Traffic White White

Sylvania Outdoor luminaires

RAL 9007 Light grey Grey

LED Lamps

RAL 9023 Dark Silver
RAL 9016 Traffic White

Please note:

- Due to photography and the printing process the colours reproduced in this catalogue may not be truly representative.
- Though paint colours may be the same, gloss, matt, satin and textured finishes will appear different.

Protection of Electronic Components

All products incorporating electronic components are protected against damage which may result from transients on the mains supply.

The level of protection incorporated is generally in excess of the minimum level specified in the current international standards.

It is the customer's responsibility to ensure that electronic equipment is not subjected to transients above these international immunity standards. In extreme cases additional suppression devices may be needed on the mains supply. The company does not take responsibility for damage to products caused by excessive mains transients. Patents Many of the products listed in this publication are the subject of Patents or Patent Applications and/or Design Registration UK and other countries.

Our exhaustive Conditions of sales are available on our website under (see below web address), or by request by calling your local sales office.
www.havells-sylvania.com/terms-and-conditions

Product Specifications

Seller reserves the right to make any changes to the Product Specification, that is required to conform with any applicable statutory or EU requirements.

Unless otherwise specifically agreed to in writing by the Seller, all descriptive and forwarding specifications, drawings and particulars of weight and dimension issued by Seller are approximate only and are intended to present a general idea of the Products to which they refer and shall not form any part of any contract.

Warranty; Claims; Limitation of liability

Subject to the conditions set out below, Seller warrants that on delivery and for a period of 24 months from the date of delivery, the Products shall:

correspond to the Product Specifications agreed to in writing by Seller; and be free from defects in design, material and workmanship, unless otherwise indicated by Seller in the product specification or elsewhere.

Subject to clause 9.3 if: Buyer gives notice in writing to Seller during the warranty period set out in clause 9.1 above and within a reasonable time of discovery that some or all of the Products do not comply with the warranty set out in clause 9.1;

Seller is given a reasonable opportunity of examining such Products;

Buyer (if asked to do so by Seller) returns such Products to Seller's place of business at Buyer's cost,

Where we consider that the Product is covered by this warranty, we will repair and/or replace ONLY the defective lamp(s) within a reasonable period of time. Further warranty is excluded unless compulsory required by law. For the avoidance of doubt, "repair or replace the defective lamps" does not include any removal or reinstallation activities, costs or expenses, including without limitation, labor costs or expenses.

Seller shall be under no liability in respect of any defect in the Products arising from: any drawing, design or any Buyer Specification supplied by Buyer; Buyer making any further use of the Products after giving notice in accordance with clause 9.2;

normal wear and tear, wilful damage, negligence, abnormal storage or working conditions, improper handling, third party interference (e.g. improper installation, overuse, excess voltage or frequency oscillations);

failure to follow Seller's instructions (whether oral or in writing) as to the storage, commissioning, installation, use and maintenance of the Products or (if there are none) good trade practice;

misuse, alteration or repair of the Products without the Seller's approval.

For the avoidance of doubt, the above warranty does not extend to parts, materials or equipment not manufactured by Seller, in respect of which Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given to Seller by the third party manufacturer

Except as set out in these Terms, all warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

These Terms shall also apply to any repaired or replacement Products supplied by Seller. Nothing in these Terms shall limit or exclude Seller's liability for:

death or personal injury caused by its negligence; or fraud or fraudulent misrepresentation.

Subject to clause 9.6, Seller shall not be liable to Buyer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit or indirect or consequential loss or damages arising under or in connection with the Contract.

Patents

Between the Buyer and the Seller, all Intellectual Property Rights and all other rights in the Deliverables and materials shall be owned by the Seller. Where necessary, the Seller licenses all such rights limited to the Buyer free of charge and on a non-exclusive, royalty free rights of the IP to the extent as is necessary to enable the Buyer to make reasonable use of the Deliverables and the Services.

Should Products sold by Seller be the subject to a claim for patent infringement, Seller may, at its sole option and expense, either procure for Buyer the right to continue using said Product, or modify same so that it becomes non-infringing, or replace it with non-infringing Product, or remove the Product and refund the purchase price paid by Buyer.

Buyer agrees to defend and indemnify Seller from and against any liability for or on account of any infringement or alleged infringement of any patented or unpatented inventions or trade secret with respect to (i) any use of Products by Buyer or their customers, including without limitation use of Products alone or in combination with other components or (ii) Products furnished, or methods used by Seller, in accordance with specifications or instructions furnished by or expressly or implicitly prescribed by Buyer.

Design ownership

Any specifications, drawings, or other technical information, data, tools, dyes, patterns, masks, test equipment, software and any other item designed, supplied, or created by Seller in performance of Buyer's order, (the "Creative Elements" shall remain the exclusive property of Seller, and no right, title or license in any such item or design is hereby granted to Buyer and Buyer is prohibited from copying or using the Creative Elements without Seller's prior written consent.

Privacy policy

The Customer acknowledges and agrees that details of the Customer's name, address and payment record may be submitted to a credit reference agency, and personal data will be processed by and on behalf of the Seller in connection with the Services. Information may also be used for marketing activity and will be held on our customer database.

Havells Sylvania endeavours to respect the confidentiality of any personal data provided and to use them in line with the UK Data Protection Act 1998. This policy also applies to the above mentioned credit reference agencies Havells Sylvania works with. For further information please consult our privacy policy which is accessible on our company website www.havells-sylvania.com or upon request a copy will be provided.

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